



PROJECT NUMBER 170039	BORING NUMBER MW-112
SOIL BORING LOG	

PROJECT : EBT Treatability Study	LOCATION : Memphis Depot
ELEVATION :	DRILLING CONTRACTOR : Boart Longyear
DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)	
WATER LEVELS :	START : 04/21/2002 END: 04/21/2002 LOGGER : Mike Karafa

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
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.
RECOVERY (%)				TEST RESULTS		
#/TYPE				6"-6"-6"-6" (N)		
					Asphalt and gravel	Corrected FID (ppm): <i>(Soil headspace)</i>
100					Silt, brown, stiff, damp, (loess)	0.0
5						6.9
10					Same as above, Silt	0.0
15						2.8
20					Same as above, Silt	0.0
25					Sand, orange, fine grained, well sorted, dry	
					Silty Sand, bright red, fine to medium grained, poorly sorted, stiff, damp	5.0
30						0.0
35						



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		RECOVERY (%)	#/TYPE	TEST		
				RESULTS		
				6"-6"-6"-6" (N)		
					Same as above, Silty Sand	0.0
40		100			Silty Sand, brown, fine to medium grained, stiff, damp, poorly sorted	
					Silty Sand, red, fine grained, stiff, slightly damp	
					Sand, orange, fine grained, loose, dry	0.0
45					Sand, orange yellow, fine to coarse grained, poorly sorted, loose, gravel	
					Sand, tan, fine grained, well sorted, loose, dry	
		100			Sand, reddish orange, fine to coarse grained, poorly sorted, gravel and pebbles angular	0.0
50						
					Sand, tan, fine grained, loose, dry, well sorted	18.0
55						
		100				11.4
60					Sand, white to light tan, very fine grain, powdery, dry	
					Pebbles and cobbles from 61 to 62 feet bgs	1.6
65					Sand, tan, fine grained, well sorted, dry, loose	
		100			Same as above except color changes from tan to orange	17.1
70					Sand, fine to medium grained, poorly sorted, loose, dry	
		100			Same as above, orange in color	0.0



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WATER LEVELS:				START: 6/4/21/2002	END: 6/4/21/2002	LOGGER: Mike Karala
DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD	SOIL DESCRIPTION	COMMENTS
		RECOVERY (%)	PENETRATION			
				TEST		
		#/TYPE	6"-6"-6"-6" (N)	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.	
						Corrected FID (ppm):
75					Sand, light gray, very fine grained, dry, loose	8.4
					Sand, tan fine grained, well sorted, loose, dry	
80		100			Sand, reddish tan, fine grained, loose, damp, pebbles to cobble, subangular	0.0
					Sand, white to orange, fine to coarse grained, poorly sorted, pebble to cobble	
					Silty Sand, reddish tan, fine grained, trace gravel, soft damp	0.0
					Sandy Silt, reddish tan, mottled, stiff, fine grained, damp	
85					Sand, gray, fine grained, well sorted, loose, dry	0.0
					Sand, tan, fine grained, well sorted, loose, dry	
90		100			Sand, light tan, very fine grained, loose, dry, well sorted	17.8
					Sand, orange, fine to medium grained, poorly sorted, gravel, pebble to cobble	
95					Sand, gray to tan, fine to medium grained, poorly sorted, loose, wet	Watertable @ approximately 96 feet bgs
					Clay with some silt, stiff, gray with red mottling, massive	
100		100			Boring Terminated @ 105 feet bgs	
105						
110						