



PROJECT NUMBER 170039	BORING NUMBER MW-113
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 : 04/17/2002 END: 04/17/2002 LOGGER : David Nelson

DEPTH BELOW SURFACE (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6"- (N)	SOIL DESCRIPTION		COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. Corrected FID (ppm): <i>(Soil headspace)</i>
		INTERVAL (FT)	RECOVERY (%) #/TYPE	
5	100			Silty Clay, brown, stiff, organic material, damp 5.0
10	100			Silty Clay, brown, stiff, damp 5.0
15	100			0.0
20	100			0.0
25	100			0.0
30	100			0.0
35	100			0.0



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DEPTH BELOW SURFACE (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6"- (N)	
INTERVAL (FT)	RECOVERY (%) #/TYPE	
40	100	
45	100	
50	100	
55	100	
60	100	
65	100	
70	100	
	SOIL DESCRIPTION	
	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):	
40	Sand (@37 ft), reddish brown, fine grained Sand, yellowish brown to tan, fine grained Sand, brown to reddish/yellowish brown, fine to medium grained, dry to moist, soft to loose	0.0
45		0.0
50	Sand, brown to yellowish brown, fine to medium grained, soft, gravel (<1 inch diam) Sand, yellowish brown to buff, fine grained, gravel (15%) Clayey Sand, orange brown, stiff, some gravel Gravelly Sand, gray/buff/brown, gravel (<1inch diam), subangular, soft, some thin clay lenses	16.2
55	Gravelly Sand, brown/gray/buff/yellowish brown, fine grained, gravel (<1inch diam) subangular to subrounded @ 56 feet bgs, 3 inch zone of gravel	0.0
60	Sand, yellowish brown, fine to coarse grained, soft	0.0
65	Sand, yellowish brown, fine grained, soft	0.0
70	Same as above, Sand	0.0



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6"-6"-6"-6"	(N)		Corrected FID (ppm):
75		Clay, yellowish brown	
		Sand, yellowish brown, fine grained, soft	0.0
80	100	Sand, brown/grayish brown, fine to medium grained, cobbles (<30%), 2 inches diam.	0.0
85	100	Sand, grey/brown, fine grained, pebbles (3%), soft	0.0
90	100	Gravelly Sand, brown to grayish brown, medium grained, soft, dry	0.0
95	100	Sand, brown to grayish brown, fine to medium grained, soft, wet	Watertable @ approximately 96 feet bgs
		Same as above, some clay	
100	100	Gravelly Sand, tan, wet	
105	100	Silty, Sandy Clay, orange brown to reddish brown, stiff, mottled	
		Silty, Sandy Clay, orange brown to grey to light reddish brown, wet	
110	100	Clay, grey green, massive	



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	INTERVAL (FT)					
	RECOVERY (%)	#TYPE				
			6"-6"-6"-6" (N)	Corrected FID (ppm):		
115				Same as above, Clay		
				Boring Terminated @ 115 feet bgs		
120						
125						
130						
135						
140						