



PROJECT NUMBER <b>148071.FI.SB</b>	BORING NUMBER <b>MW-78</b>
<b>SOIL BORING LOG</b>	

PROJECT : Memphis Depot: Dunn Field Expanded RI LOCATION : Memphis, TN  
 ELEVATION : 275.00 feet MSL (TOC); 275.4 feet MSL (ground) DRILLING CONTRACTOR : Tri-State Testing Services  
 DRILLING METHOD AND EQUIPMENT USED : 4.25 ID Hollow-Stem Auger with 4 inch CME sampler  
 WATER LEVELS : 50.02 feet BTOC (01/2001) START : 12/06/2000 END : 12/06/2000 LOGGER : Bryan Burkingstock

DEPTH BELOW SURFACE (FT)			STANDARD		SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (IN) #/TYPE	PENETRATION	TEST RESULTS  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.
			Used Continuous CME Sampler			FID (ppm): <b>(Soil headspace)</b>
		36			SILT, brown, moist	
5		60			SILT, brown, dry	
10		60			SILT, brown, moist	
15		60			SILT, brown, moist	
20		55			SILT, brown, moist	
					SANDY SILT, abrupt color change to yellowish brown, pebbles	
					SILTY SAND, abrupt color change to dark red, fine to medium grained, with pebbles, subangular	
					23 - 24.5 feet SAND, red, fine to medium grained, pebbles	
					At 23.4 and 24 feet: 1 inch thick light grey SANDY CLAY layer	
25		54			SANDY CLAY, medium to fine grained, abrupt change from red to light gray, few brownish yellow mottles	
					SAND, fine grained, abrupt change from light gray to brownish yellow tan, tent of red, well sorted	
30		43			SAND, fine grained, tan to red, with light brown, and offwhite colored layers well sorted	
					SAND, transition from fine to medium grained, red, well sorted, trace of subangular, pebbles, very moist beginning at, 36.5 feet	



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DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	#/TYPE	STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
				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.
						FID (ppm):
35	43			Used Continuous CME Sampler		
40	43				SAND, medium grained, red, well sorted, transitioning to medium to coarse poorly sorted, increase in % of pebbles with depth	
					On top <1 inch thick layer of pebbles (<1/4 inch wide), subangular	
					At 41 feet, 2 inch thick, CLAY, light brown very dense	
					SAND, fine grained, red, very well sorted, with trace pebbles, subangular	
45	35				SAND, fine to medium grained, red becoming tan, few pebbles	
					At 46 feet abrupt change in % gravel 1 inch layer of 1/2 inch to 1 inch pebbles	
					SAND, medium to coarse grained, tan, poorly sorted, with trace pebbles	
50	40				SAND, transition from poorly sorted medium to coarse grained to well sorted, tan	
					@ 49 feet bgs: medium grained, trace pebbles	
					Water Table @ 51.5 feet	
					SAND, fine to medium grained, tan, well sorted, wet, pebbles to 56.5 feet	
55	34					
					SAND, well sorted, tan, fine to medim grained, wet	
60	27					
					SAND, fine to medium grained, tan, well sorted, wet, few pebbles	
					CLAY, yellowish with thin grey layers <1/4 inch, dense, plastic	
65	36					
					CLAY, yellowish with thin grey layers <1/4 inch, dense, plastic	
					Boring terminated at 68 feet bgs	