



PROJECT NUMBER 148071.FI.SB	BORING NUMBER MW-80
SOIL BORING LOG	

PROJECT : Memphis Depot: Dunn Field Expanded RI LOCATION : Memphis, TN
 ELEVATION : 273.81 feet MSL (TOC); 274.00 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 : 61.28 feet BTOC (01/2001) START : 12/11/2000 END: 12/11/2000 LOGGER : Bryan Burkingstock

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (IN)		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.
			#/TYPE	TEST RESULTS		
				6"-6"-6"-6" (N)		
				Used Continuous CME Sampler		FID (ppm): (Soil headspace)
		36			SILT, light brown, moist	
5		60			SILT, light brown	
					SILT, gray, with thin light brown streak or lens <1mm	
10		60			SILT, light gray transitioning to a brownish gray	
					SILT, brownish gray transitioning to a grayish brown	
15		60				
					SILT, grayish some yellow tint, very stiff, becoming more brown	
20		60				
					SILT, light brown, to 26.3 feet	
25		60			SILT, brownish gray, with %20 pebbles, subangular	
					@ 27.9 CLAYEY or SILTY SAND, red, fine grained	
					SAND, red, trace pebbles	
30		53			@30.5 - 32.5 abrupt change to CLAYEY SAND, brownish gray, 50% - 60% gravel, up to 3/4 inch wide, subangular, very dense, very poorly sorted	
					SAND, fine to medium grained, brownish yellow	
					SAND to 34.5, brownish yellow, fine grained, well sorted	
35				Used Continuous CME Sampler	SAND, tan, 20% gravel up to 1.5 inch wide	
		50			SAND, medium grained, red and yellow lenses, well sorted	



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DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	RECOVERY (IN)	#/TYPE				
40	36			@37.5 SAND, tan with pebbles, thin layer (<1/8 inch) of purplish red coarse grained granuals, well sorted, medium grained SAND to 40 feet, medium grained, pebbles, tan, subangular, well sorted, moist Gravel layer above and wet 40 to 40.5 feet CLAY, white to light grey, very dense, and dry within clay 40.5 to 43 feet SAND, medium grained, tan well sorted, with 2 inch gravel, moist layers at 41 and 42 feet SAND to 45.5 feet, medium grained, tan, well sorted, very wet, few pebbles 45.5 to 48 SAND, fine grained, light yellow to yellowish white, 30% pebbles, uniform in size (1/4 inch), moist to wet, abrupt change SAND to 51 feet, medium grained, tan, well sorted, moist, with pebbles @51 feet, 2 inch very coarse grained interval, very well sorted (1/8 inch wide), tan, very moist 51.1 to 53 SAND with pebbles, subangular, very poor sorted, tan, fine to medium to coarse grained SAND to 58 feet, medium grained, tan, turning well sorted at 53.5 feet, moist, with trace pebbles (<1/4 inch), subangular SAND to 61 feet, medium grained, tan, turning well sorted at 53.5 feet, moist, with trace pebbles (<1/4 inch), subangular Water Table @ 61 feet @ 61 feet, 1/4 inch layer, of granular iron stone, or precipitated iron, red, purplish red SAND, fine to coarse (mostly medium to coarse), tan, poorly sorted, small pebbles <1/4 inch, subangular, wet SAND, same as above, tan, with thin layers of coarse (<1/4 inch), purplish red grannuals about 66 and 67 feet, wet		
70	12		Used Continuous CME Sampler	SAND, same as above, possibly into clay slightly @ 69 feet, very hard layer (possibly iron stone) No Sample @ 71 feet, very hard layer (possibly iron stone) CLAY, yellowish grey, very hard layer, stiff, no sample but clay on outside of sampler		



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RECOVERY (IN)				TEST		
#/TYPE				RESULTS		
				6"-6"-6"-6" (N)		FID (ppm):
75		0			No recovery, CLAY, dark grey on outside of sampler	
80					Boring terminated at 78 feet	