



PROJECT NUMBER <b>148071.FI.SB</b>	BORING NUMBER <b>MW-91</b>
<b>SOIL BORING LOG</b>	

PROJECT : Memphis Depot: Dunn Field Expanded RI LOCATION : Memphis, TN  
 ELEVATION : 291.99 feet MSL (TOC); 289.3 feet MSL (ground) DRILLING CONTRACTOR : Boart Longyear  
 DRILLING METHOD AND EQUIPMENT USED : Rotasonic (four and six inch casings)  
 WATER LEVELS : 66.00 feet BTOC (01/2001) START : 10/23/2000 END: 10/23/2000 LOGGER : S. Mellon

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)	RECOVERY (IN)	#/TYPE	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.	
			TEST RESULTS			
			6"-6"-6" (N)			
			Used rotasonic drilling method no penetration test results	SILT (ML), dark yellowish orange (10YR6/6), dry, soft	FID (ppm): <b>(Soil headspace)</b>	
5	42	SL-1		CLAY(ML), lean, dark yellowish orange (10YR6/6), dry, stiff, high to medium plasticity	0.0	
10	60	SL-2		CLAY (ML), silty, dark yellowish orange(10YR6/6), moist, soft, medium to low plasticity	0.0	
15	120	SL-3			0.0	
20				SANDY CLAY (CL-ML), silt, dark, yellowish orange(10YR6/6), moist soft, medium to low plasticity, <5% gravel, chert pebbles up to 1/8 inch rounded to subrounded		
25	72	SL-4		CLAYEY SAND (SC) , dark yellowish orange (10YR6/6), moist, soft, medium to low plasticity, <5% gravel chert pebbles 1/8 inch rounded to subrounded, bands of moderate red (5R4/6) sand lenses (2-4 inches)	0.0	
				Loss of Core		
				SAND(SW), well graded, moderate red (5R4/6), <5% gravel, medium sand, loose, moist		
30	108	SL-5		SAND(SW-SM), well graded, silt and gravel, moderate red(5R4/6) 20-25% gravel, moist, loose, up to 1/2 inch gravel, medium sand		
				SAND(SW), well graded, grayish orange (10YR7/4), fine sand, moist loose	0.0	

**LEGEND**

FID Flame Ionization Detector



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			#/TYPE	TEST RESULTS		
				6"-6"-6"-6" (N)		
40  <						

**LEGEND**

FID Flame Ionization Detector