



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-103
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 ELEVATION : 301.35 feet MSL (TOC); 301.90 feet MSL (ground) DRILLING CONTRACTOR : Tri-State Testing Services, Inc.
 DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger 4.25 inch ID with CME Sampler
 WATER LEVELS : 69.43 feet BTOC (11/2001) START : 10/15/2001 END: 10/16/2001 LOGGER : Adam Kaiser (Jacobs)

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		
#/TYPE				RESULTS		
				6"-6"-6"-6" (N)		
5	100		Used hollow-stem auger drilling method no penetration test results	Asphalt		Corrected FID (ppm): (Soil headspace)
				Clayey silt - Brown, hard-dry	1.3	
	100				11.3	
				Clayey silt, grey, hard, dry.		
	85				65.4	
				Clayey silt, Grey, soft		
	85				Sample collected for VOCs	
				Clayey silt brown, hard, dry	91.4	
	100				7.1	
				Clayey Silt-Brown, stiff, moist		
	100				2.0	
				Sandy silt-brown, stiff, moist		
100		4.5				
	Sand, reddish-tan, fine, medium dense, moist					
50		16.1				



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DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)		RECOVERY (%)			
	#/TYPE					
				Used hollow-stem auger drilling method no penetration test results		
40		60			Sand, reddish tan, medium, medium dense, moist. Gravel 1/2 - 3/4" (10% - 15%).	2.2
					Silty Sand, red, dense, moist	2.5' intervals
45		85				1.8
					Sand, tan, medium, medium dense moist	
50		60				0.0
					Sand, red, medium fine, dense moist.	2.5' intervals
55		100			More coarse - gravelly	1.5
60		100			Sand and small gravel (1/4 - 1/2"). Sand red, medium fine, dense moist.	2.3
					Sand - tan, fine, dense moist, saturated.	Sample collected for VOCs
					Sand Red-medium, medium-dense, saturated	At 64 feet - Dup. Water at 64 feet (perched)
65		75				0.8
					Silty clay-gray, stiff, wet	
70		50			Clay-brown, stiff.	Water Table
					Sand-red, medium coarse, medium dense - granually 20% (1/2" - 3/4") wet, saturated	Sample collected for VOCs at 72 feet 2.5 intervals



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	RECOVERY (%)			TEST		
				RESULTS		
				6"-6"-6"-6" (N)		
75		25	Used hollow-stem auger drilling method no penetration test results		Sand-red, medium coarse, medium dense - granually 20% (1/2" - 3/4") wet, satura	Sample collected for VOCs
80		60			Sand-red, medium coarse, medium dense - granually 20% (1/2" - 3/4") wet, saturated	
85		75			Sand - very coarse, medium dense, saturated, small grave	
					Sandy silt - fine, very dense. Saturated - wet.	
90		100			Clay, brown to grey, stiff to hard, dry	
					Clay - brown, grey, stiff, hard, dry. BORING TERMINATED @ 93 FEET BGS.	
95						
100						
105						
110						