



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-101B (Replaced SB-101)
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot	LOCATION : Memphis, Tennessee
ELEVATION : 291.70 feet MSL (TOC); 291.99 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 : 93.32 feet BTOC (11/2001)	START : 10/19/2001 END: 10/19/2001 LOGGER : Jay Parker (Jacobs)

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (%)	#/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.
						Corrected FID (ppm): (Soil headspace)
5				Used hollow-stem auger drilling method no penetration test results	6" asphalt Clayey SILT, brown, soft, damp, med plastic	0.0
10					Same as above, reddish brown, med stiff to stiff, damp, med plastic	0.0
15						0.0
20					CLAYEY SILT Slowly grades to a CLAYEY SAND, brownish red, very fine, med stiff, slightly plastic to med plastic	0.2
25					Grading to a SILTY SAND with clay	0.0
30					SAND, red, very fine to fine, stiff, some clay in matrix, grading coarser with depth, damp, trace gravel at 27 feet becoming more gravelly to 37 feet SAND, reddish brown, fine to medium, loose, damp	0.0
35					6" of Clay at 35 feet Color starts turning more yellow at 35 feet after the clay seam. Gravel up to 2.5 inches at 35 feet. ~5 to 10% of the matrix is gravel @ 36 feet	0.0



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				TEST		
		#/TYPE		RESULTS		
				6"-6"-6"-6" (N)		Corrected FID (ppm):
40				Used hollow-stem auger drilling method no penetration test results	Gravelly SAND, reddish yellow to pale yellow, fine, loose, damp, gravelly in zones from fine, pebbles to 1 inch, subrounded to subangular	0.8
	100					
45						0.0
50						0.5
	100					
55						0.0
60					Same as above, damp to moist, gravel up to 2.5 inches	0.0
	100					
65						0.0
70					Same as above	0.9
	100					



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RECOVERY (%)				TEST		
#/TYPE				RESULTS		
				6"-6"-6" (N)		Corrected FID (ppm):
75				Used hollow-stem auger drilling method no penetration test results		1.8
					Same as above. Gravel zone from 77 to 77.5. Becoming a sandy gravel with depth then back to gravelly SAND by 86 feet	
80						0.0
			100			
85						0.0
					Gravelly SAND, pale yellow to light grey, fine, loose	Sample collected for VOCs
					Gravelly zone at 88 feet	
90						1.2
			100			
					Wet @ 96 to 100 feet Gravelly zone at 96 feet	Water Table Sample collected for VOCs (MW-101) Hard to identify water table as most water runs out of sample before reaching the surface.
95						
100						
			100			
105				Gravelly zone at 105 feet	Sample collected for TOC	
				SAND and gravelly SAND, pale yellow, fine to med, loose, saturated Gravel zones at 107 to 108 feet		
110						



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						Corrected FID (ppm):
100	100			Used hollow-stem auger drilling method no penetration test results	Gravelly SAND	
115						
120						
125	100				Above the gravel zone, SAND yellowish red, coarse, loose, saturated, trace gravel Gravel zone at 123 to 124 feet.	
130					Gravelly SAND	
135					Same as above	
140	100				CLAY, yellowish grey, dense, damp, plastic	



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RECOVERY (%)				TEST RESULTS					
#/TYPE				6"-6"-6"-6" (N)					
				Used hollow-stem auger drilling method no penetration test results		CLAY		Corrected FID (ppm):	
						BORING TERMINATED @ 142 FEET BGS.			
145									
150									
155									
160				Used hollow-stem auger drilling method no penetration test results					
165									