



PROJECT NUMBER 160492.SA.03	BORING NUMBER MW-92
SOIL BORING LOG	

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee
 ELEVATION : 304.41 feet MSL (TOC); 304.78 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 : 96.75 feet BTOC (11/2001) START : 09/24/2001 END: 09/25/2001 LOGGER : Jay Parker (Jacobs)

DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)		RECOVERY (%)	#/TYPE	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 hollow-stem auger drilling method no penetration test results	6" Asphalt, 6" gravel, Clayey SILT, yellowish red 5YR 4/6 damp	Corrected FID (ppm): (Soil headspace)
5	100				Same as above	0.0
10	100				Same as above, more silt	0.0
15	100				Clayey SILT, reddish brown 5YR 5/4 with reddish yellow mottling 5YR 6/6 dry, stiff	0.0
20	100				SANDY SILT, strong brown 7.5 YR 4/6, very fine, stiff, dry	0.0
25	100				Sandy SILT, light brown 7.5 YR 6/3 with dark red mottles, very fine, firm, damp	0.0
30	50				Turns to SAND, dark red 2.5 YR 4/8, loose fine to med dry	0.0
35	50				SAND, red 2.5 YR 4/8, medium to fine, well sorted, damp, loose	0.0
					Same as above, red 2.5 YR 5/8	0.0
						0.0



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	RECOVERY (%)			TEST		
				RESULTS		
				6"-6"-6"-6" (N)		Corrected FID (ppm):
40		50		Used hollow-stem auger drilling method no penetration test results	SAND, yellow 10YR 7/6, fine, loose, dry	0.0
45		50			First half of sample lost. SAND, pale yellow 2.5Y 8/3 med to fine, well sorted, loose, dry, trace pebbles and gravel, subrounded	0.0
50		100			Same as above, no pebbles or gravel	0.0
					Same as above	
55		90			Grades to brownish yellow 10YR 6/6, damp. Becoming coarser sand, with pebbles and gravel at 56.5 feet, fine to coarse sand. Subangular to subround gravel and pebbles	0.0
60		90			SAND, yellow brown 10YR 5/8, well sorted, fine, loose, damp. Gravel and pebbles grade away.	0.0
65		80			Sandy CLAY with gravel and silt, very pale brown mottled with white 2.5Y 8/1	0.0
					SAND, yellow 2.5Y 7/6, fine, lloose, drdy, well sorted	
70		40			Same as above, damp	0.0
					Same as above	



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				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):
75		75		Used hollow-stem auger drilling method, no penetration test results	Grades to silty SAND w/gravel, yellowish brown 10 YR 5/8, small gravel and pebbles, angular, wet, soft Wet @ 77 feet	Sample collected for VOCs
80		75			Grades slowly from the silty sand w/gravel to SANDY SILT at 80.5 feet	
85		90			CLAY, yellow 10 YR 7/6, very plastic, stiff Clayey SILT, brownish yellow 10YR 6/8, med stiff, med plastic, damp	
90		75			SAND, white 10YR 8/1, fine, loose, damp, well sorted	
95		60			As above, SAND, white to 92.5 feet. SAND, brownish yellow 10YR 6/6, loose, fine, some gravel, dry Same brownish yellow SAND as above with more gravel, gravel at 5 to 10%, damp to moist Sample at 96 to 98 appears to be wet to saturated	Sample collected for VOCs
100		55			GRAVELLY SAND, dark yellowish brown 10YR 4/6, fine to coarse sand, 50% gravel, wet	Water Table
105					CLAY, grayish brown, 10YR5/2, with blackish bands, stiff, medium plastic, trace sand SAND, light gray 2.5Y 7/12, fine to very fine, loose	
110					Wet @ 105.5 feet, darker gray sand from 103 to 105.5 feet Sand is saturated. Silty CLAY, looks like clay at 108 feet. SILTY CLAY, grayish brown, 10YR5/2, with blackish pieces, stiff, medium plastic	Sample collected for TOC



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				TEST	
				RESULTS	
				6"-6"-6" (N)	
115				Used hollow-stem auger drilling method no penetration test results	SILTY CLAY, grayish brown, 10YR5/2, with blackish pieces, stiff, medium plastic BORING TERMINATED @ 102.5 FEET BGS.
120					
125					
130					
135					
140					