CH2MHILL

PROJECT NUMBER	BORING NUMBER
160492.SA.03	SB-106

SOIL BORING LOG

PROJECT : Long Term Operational Areas - Memphis Depot LOCATION : Memphis, Tennessee

ELEVATION : 311.81 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 : DRY START : 10/16/2001 END: 10/16/2001 LOGGER : Jay Parker (Jacobs)

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (%)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. Corrected FID (ppm):
					6" Asphalt and gravel	***(Soil headspace)***
				Used hollow-stem auger drilling method no penetration test results	Clayey SILT, drown 7.5 YR 4/3, medium stiffnon-plastic, damp	
		100				
5						**0.0**
					Clayey SILT, brown 7.5 YR 4/4 with pinkish-grey 7.5YR 6/2 mottles, medium, stiff, non-plastic, dry	
10						**0.0**
		100				
					Clayey SILT, brown 7.5YR 4/5, medium stiff, non-plastic, dry	
15						**0.0**
					Clayey SILT, same as above, damp	
20						**0.0**
						JEG @ 23 feet Perched water
25						**0.0**
					Sandy SILT, strong brown 7.5YR4/6, soft, slightly plastic, damp, becoming sandy with depth	
		100				
30						**0.0**
					@ 30 feet, becomes mottled dark red 2.5YR3/6 and reddish yellow, stiff, dry	
35						**0.0**
					@ 35 feet, dark red, silty SAND, very fine, damp, stiff to very stiff	

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40				Used hollow-stem auger drilling method no penetration test results	Clayey SILT, as above to 40'	
					SAND, red 2.5YR4/8, fine loose, damp	0.0
		100				
						2.5' intervals
45					Mottled SAND 5YR 5/8 yellowish red and reddish yellow 7.5YR 7/8	0.0
					SAND, mottled as above, fine, to medium, loose, dry	
50						0.0
		100				
55						0.0
					Gravelly SAND, reddish yellow 7.5 YR 6/8, fine, loose, dry, SOD angular grave ~15%	
60						0.0
		100			Gravelly SAND, becoming less gravelly and redder color	
65					Sandy Gravel, loose, dry, no color change	0.0
					Sandy Gravel, same as above	
70						0.0
		75			SAND, 10YR 6/8 brownish yellow fine, loose, dry trace gravels SANDY GRAVEL, same color, fine to coarse, loose, subround to subangular gravel.	

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75				Used hollow-stem auger drilling method no penetration test results	SAND, 10YR 6/8 brownish yellow fine, loose, dry trace gravels	**0.0**
					Gravelly SAND, yellow 10YR 7/8, fine to coarse, loose, dry to moist, gravel ir zones up to 40%, subangular to subrounded.	
80						**0.0**
		100				
85						**0.0**
					Gravelly SAND, to 89.5'	Sample collected for VOCs
90					6" of reddish yellow CLAY CLAY, fine interbeds of organics, Peat, and CLAY, clay is sandy, silt, peaty	**0.0**
		100			CLAY, bluish gray, hard to ver stiff, black in places	
95					PEAT, sharp break at ~94	**0.0**
					PEAT and CLAY at 94', very organic looking, black, foliated, fine beds of silty gray CLAYS, with fine sand.	
					BORING TERMINATED @ 97 FEET BGS.	
100						**0.0**
105						
110						