



PROJECT NUMBER 170039	BORING NUMBER MW-119
SOIL BORING LOG	

PROJECT : EBT Treatability Study LOCATION : Memphis Depot
 ELEVATION : DRILLING CONTRACTOR : Boart Longyear
 DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)
 WATER LEVELS : START : 05/02/2002 END: 05/02/2002 LOGGER : Bryan Burkingstock

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)	RECOVERY (%)	#/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"-6" (N)		
					Gravel (parking lot)	Corrected FID (ppm): (Soil headspace)
					Silt, brown, moist, (loess)	
5						0.0
10					Silt, brown, moist, (loess)	0.0
15						0.0
20						0.0
25					Silt, brown, moist, (loess)	0.0
					Sandy Clay, reddish brown with red and gray mottles, moist, fine grained, stiff	
					Color grading from tan to brownish red to orange, red	
					Increase fine grained sand with depth	
					Clayey Sand, orange to dark red, fine grained, well sorted, moist, firm	0.0
30						
					Sand with gravel, orange to dark red, medium grained, well sorted, moist, loose, pebbles (<10%), subangular, <0.25 inches diameter	
						Driller's sample bag: 36.0
						Ziplock: 0.0
35					Clay, pink with light gray sandy clay inclusions, dense, massive, moist	



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WATER LEVEL:		START: 03/02/2002		END: 03/02/2002		LOGGER: Bryan Burkingstock	
DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS		
	RECOVERY (%)	#/TYPE					
				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. <div>Corrected FID (ppm):</div>		
40	100			Same as above, Clay	Driller's sample bag: 10.0 Ziplock: 0.0		
				Same as above, Clay			
				Gravelly Sand, tan, fine grained, well sorted, moist, loose, pebbles (<10%), <0.25 inch diameter, subangular			
45				Sand, light yellow, well sorted, fine grained, loose	Driller's sample bag: 230.0 Ziplock: 0.0		
				Gravelly Sand, brownish yellow to light yellow, fine to coarse grained, poorly sorted, loose, moist, pebbles (<20%), <0.5 inches diameter, subangular			
50	100				Driller's sample bag: 264.0 Ziplock: 0.0		
				Same as above, Gravelly Sand	Driller's sample bag: 241.0 Ziplock: 0.0		
55							
				Same as above, Gravelly Sand	Driller's sample bag: 174.0 Ziplock: 0.0		
60	100						
				Sand, brownish yellow, medium grained, well sorted, moist, loose	Driller's sample bag: 141.0 Ziplock: 0.0		
65							
					Driller's sample bag: 157.0 Ziplock: 0.0		
70	100			Same as above, Sand			
				Gravelly Sand, brownish yellow, fine to coarse grained, poorly sorted, pebbles (<20%) <1 inch diameter, subangular, mois	Driller's sample bag: 163.0 Ziplock: 0.0		



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RECOVERY (%)				TEST		
#/TYPE				RESULTS		
				6"-6"-6" (N)		Corrected FID (ppm):
75					Same as above, some gravel 2 inches in diameter	Driller's sample bag: 181.0 Ziplock: 0.0
80			100			Driller's sample bag: 134.0 Ziplock: 0.0
85						Driller's sample bag: 104.0 Ziplock: 0.0
90			100			Driller's sample bag: 37.0 Ziplock: 0.0
95					Same as above, Gravelly Sand	Watertable @ approximately 93 feet bgs
100			100			
					Boring Terminated @ 101 feet bgs	
105						
110						