

PROJECT NUMBER	BORING NUMBER
170039	MW-124

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)

WATER LEVELS :			LQOII WLIVI	USED: Rotasonic rig (4 inch sample casing / 6 inch outer casing) START: 05/03/2002 END: 05/03/2002 LOGGER: Bryan Burkingstock			
			STANDARD	SOIL DESCRIPTION	COMMENTS		
l				PENETRATION	22:22230:111		
	INTERVAL (FT) RECOVERY (%) #/TYPE	RY (%) #/TYPE	TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY,	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS,		
				6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.	
				(N)	MINERALOGY.	Corrected FID (ppm):	
	<u> </u>				Gravel (parking lot)	(Soil headspace)	
_	1				Silt, brown, moist, (loess)	-	
-	i	100					
-	-	!				0.0	
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10	<u>i</u> i	100			Silt, brown, moist, (loess)		
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-	<u> </u>	ļ				0.0	
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20		100					
	i				Cit brown maint (logge)		
-	-1				Silt, brown, moist, (loess) Sandy Clay, brownish red, moist, fine grained, stiff		
-	-i i	j					
_	 -					0.0	
_	<u>i</u> i	į					
25 _	1						
	<u> </u>				Color grading from tan to brownish red to dark red		
-	<u> </u>	! !			Increase fine grained sand with depth		
-	<u>-</u> !						
-	-					0.0	
l _	<u>I</u>						
30		100			Clayey Sand, red, fine grained, well sorted, moist		
- 55	1	100					
-	i						
-						Driller's sample bag: 21.0	
_	i				<u> </u>	Driller's sample bag: 21.0 Ziplock: 0.0	
	!				Sand, dark red, fine grained, well sorted, mois		
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LOGGER: Bryan Burkingstock WATER LEVELS START: 05/03/2002 END: 05/03/2002 DEPTH BELOW SURFACE (FT) STANDARD SOIL DESCRIPTION COMMENTS INTERVAL (FT) PENETRATION RECOVERY (%) TEST SOIL NAME, USCS GROUP SYMBOL, COLOR, DEPTH OF CASING, DRILLING RATE, #/TYPE MOISTURE CONTENT, RELATIVE DENSITY, DRILLING FLUID LOSS, RESULTS 6"-6"-6"-6" OR CONSISTENCY, SOIL STRUCTURE, TESTS, AND INSTRUMENTATION. (N) MINERALOGY Corrected FID (ppm): 118.0 Driller's sample bag: Ziplock: Same as above, Sand Clay, pink with light gray sandy clay mottles, dense, massive, moist 40 100 Driller's sample bag: 167.0 Sand, brownish yellow, fine to medium grained, well sorted, loose, moist Ziplock: 0.0 45 Gravelly Sand, brownish yellow to light yellow, fine to coarse grained, poorly sorted, loose, moist, pebbles (<10%), <0.25 inches diameter, subangular Driller's sample bag: Ziplock: 432.0 50 100 295.0 Driller's sample bag: Ziplock: 0.0 55 Sand, brownish yellow, medium grained, well sorted, moist, loose Driller's sample bag: Ziplock: 164.0 60 100 Driller's sample bag: Ziplock: 124.0 65 Driller's sample bag: 279.0 Gravelly Sand, brownish yellow, fine to coarse grained, poorly sorted, pebbles (<20%) <1 inches diameter, subangular, mois Ziplock: 0.0 70 100 Driller's sample bag: Ziplock: 209.0



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	RLEVELS			START :	05/03/2002 END: 05/03/2002 LOGGER:	Bryan Burkingstock
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DEC 1111	INTERVA		• /	PENETRATION	GOIL DEGORIF HON	CONNINTENTS
		RECOVE	RY (%)	TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,
			#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
				6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
	<u> </u>			(N)	MINERALOGY.	Corrected FID (ppm):
75 - - - -		100			Same as above, Gravelly Sand	Driller's sample bag: 154.0 Ziplock: 0.0
80 85	J I I I I I I I	100				Driller's sample bag: 213.0 Ziplock: 0.0
90		100			Same as above, Gravelly Sand	Driller's sample bag: 113.0 Ziplock: 0.0
95						Driller's sample bag: 71.0 Ziplock: 0.0 Watertable @ approximately 93 feet bg
- - 100		100				
- - 105					Same as above, Gravelly Sand	
- - - 110					Boring Terminated @ 115 feet bgs	