

PROJECT NUMBER 148071.FI.SB	BORING NUMBER MW-87
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SOIL BORING LOG

Memphis Depot: Dunn Field Expanded RI LOCATION : Memphis, TN PROJECT: ELEVATION: 294.93 feet MSL (TOC); 292.80 feet MSL (ground) DRILLING CO DRILLING METHOD AND EQUIPMENT USED: Rotosonic (four and six inch casings) DRILLING CONTRACTOR: Boart Longyear

WATE	R LEVELS	6: 69.46	feet BTOC (01	/2001) START:	10/12/2000 END: 10/12/2000 LOGGER:	Craig Sprinkle
	BELOW SURFACE (FT) STANDARD			SOIL DESCRIPTION	COMMENTS	
	INTERVAL			PENETRATION		
		RECOVE	RY (IN) #/TYPE	TEST RESULTS 6"-6"-6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE,	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
				(N)	MINERALOGY.	FID (ppm):
						(Soil headspace)
- - - 5		60		Used rotosonic drilling method no penetration test results	SILT, brown, moist	1.4 - - -
- - 10 - -		120			SILT, brown, moist	- - - 3.2 - -
- 15 - - -					SILT, brown, moist SILTY SAND, yellowish red, very fine grained	- - - - -
20 <u> </u>		120			SILTY SAND, yellowish red to reddish brown, very fine grained, moist Some brownish yellow mottles	4.0 - - - -
- - -	 				SILTY SAND, red to reddish brown, very fine to medium grained, moist Some grey mottles SILTY SAND, fine to medium grained, red to reddish brown, moist	- - -
30		120			SAND, fine to coarse grained, red to reddish brown, gravel rounded to subrounded	4.8 - - -
35				Used rotosonic drilling method no penetration test results		



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H BELOW SURFAC		STANDARD	SOIL DESCRIPTION	COMMENTS		
INTERVAL (FT)		PENETRATION				
RECO	VERY (IN)	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.		
		(N)	MINERALOGY.	FID (ppm):		
84			SAND, light brown yellow, with gravel			
-i i			SAND, reddish brown to yellowish red, medium grained, with gravel			
i i			or was, readish brown to yellowish rea, mediam grainea, with graver			
T I						
-l I						
1 1						
			SAND, light yellowish brown to yellowish red, fine to medium grained, moist			
-!!!				440		
!!				14.0		
-!!!						
-i !						
_ 96	'		SAND, brownish red to yellowish red, medium grained, with gravel			
i i			2, 2			
i i						
i i			SAND, light yellow to light brown, with some gravel, moist			
i i			SAND, light yellow to light brown, with some graver, moist			
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1 1						
-I I						
<u>.</u> l l						
60	1		SILTY/CLAYEY SAND, light yellowish grey to light brownish yellow SAND, fine to medium grained, light grey to light yellow	26.0		
. !			SAND, fine to medium grained, light grey to light yellow			
<u>!</u> !						
-i i			Same as above, more orange			
⊹			SAND, fine to medium, with gravel (some 1 to 2 inch wide), rounded to subrounded			
! !			SAND, fine to medium, light yellow to orange, moist			
-! ! ! !						
-i i						
i i						
i i				Not Sampled		
96	i			·		
i i						
-i i			SAND, light yellow to light orange and light brownish yellow,			
1 1			fine to medium grained, moist, with gravel			
l I						
-I I						
į į						
<u> </u>						
i i			SAND, medium grained, light yellow to light grey/white, moist			
! !			SAND, fine to medium grained, orange to light yellowish red, moist			
			3 1 3 3,71 1 1,71	_		
84	· [1.0		
i i			Water Table @ 67 feet			
<u>i i i </u>						
i i		The Leaders of	SAND, fine to medium grained, dark brown to dark brownish grey, wet			
i i		Used rotosonic drilling method	SAND, same as above, orange, wet			
i i		no penetration test	SAND, Same as above, Grange, wet			
ri		results	SAND, fine to medium grained, light yellowish brown to light brownish grey, wet			
4 i			With some gravel			
j j						
	. [SAND, orange, with gravel, wet	9.0		
				0.0		
_1 1		I				
i i			To a series of the control of the co			
i i -1 i			SAND, light yellowish red, wet			
- 60 _ -			SAND, light yellowish red, wet CLAY lense, 0.5 to 1 inch thick, grey to light brownish grey			



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