



PROJECT NUMBER 334469	BORING NUMBER MW-189
SOIL BORING LOG	

PROJECT : PRB Implementation Study LOCATION : Memphis Depot
 ELEVATION : DRILLING CONTRACTOR : Prosonic
 DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)
 WATER LEVELS : START : 3/23/2006 END: 3/23/2006 LOGGER : Mike Karafa

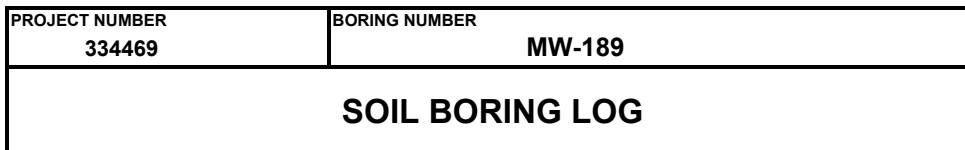
DEPTH BELOW SURFACE (FT)				STANDARD		SOIL DESCRIPTION		COMMENTS	
INTERVAL (FT)				PENETRATION		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.	
RECOVERY (%)				TEST RESULTS					
#/TYPE				6"-6"-6"-6" (N)					
						Silt, yellowish-brown, grass, damp, stiff		Corrected FID (ppm):	
						Silt, brown, fine grain loess, dry		1.9	
100								2.6	
5									
								6.0	
10									
100									
15								22.1	
								1.7	
20								2.0	
100								15	
25								2.6	
								46.4	
30									
100						Silty sand, tannish orange, fine grain, sticky, damp, gravel up to 1/4"			
35									
						Gravelly silty sand, orangish red, fine grain, loose, damp, gravel pea size up to 2" diameter, less silt after 36'			
								33.9	



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	RECOVERY (%)	#/TYPE	TEST			
			RESULTS			
				6"-6"-6"-6" (N)		Corrected FID (ppm):
40	100					
45					Sand, light tan, fine grain, loose, dry gravel up to 1.5"	
						0.0
						7.1
50	100					
					sand, orangish brown, fine to regular coarse grain, loose, damp, gravel pea size up to 1/2" diameter	10.5
						4.5
55						
					sand, orange and tan, fine grain, loose, dry	12.1
60	100					
					sand, orange, fine to coarse grain, loose, dry, gravel up to 1/4"	
					sand, light tan, fine grain, loose, dry, pea size gravel	0.0
65						
					silty gravelly sand, fine to very coarse grain, damp, loose, fluvial deposits	
					sand, orange to tan, fine grain, loose, damp	0.0
70	100					



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WATER LEVELS :

START: 3/23/2006

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DEPTH BELOW SURFACE (FT)		STANDARD PENETRATION TEST RESULTS		SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)	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.
75					0.0
80	100			gravelly sand, orangish tan, fine to medium grain, loose, damp, gravel up to 3/4"	
85				sand, orange, fine to coarse grain, loose, damp, gravel up to 1" diameter	
				silty sand, dark grey, loose, damp to wet, fine grain	
				silty clay, orange, stiff, damp	
90	100			silty clay, dark grey	0.0
95					
100				Boring terminated at 97-feet	