

PROJECT NUMBER	BORING NUMBER
334469	MW-193

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)

	LEVELS			START:	3/16/2006 END: 3/20/2006 LOGGER:	Mike Karafa
	BELOW SU		-T)	STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL		,	PENETRATION	22.2.2.30.00	22
		RECOVE	RY (%)	TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,
			#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
			m 1 U E	6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
				6 -6 -6 -6 (N)	MINERALOGY.	Corrected FID (ppm):
	. <u> </u>			(14)	grass, roots, soil, silty	0.0
- 		100			silt, brown, loose, dry, fine grain loess	The original location was abandor Therefore the soil boring information will be used from the first attempt up to 57-feet bgs and from the second attempt on from there. This is due to the second location being 5-feet from the first and nothing was logged up to 57-feet during
5 <u> </u>					silt, brown, loess, stiff, damp	the second attempt.
10		100				0.0
15 <u> </u>				-	1	
20		100				
25 					silty sand, orangish brown, stiff, damp, fine grain	0.0
30 <u> </u>		100			silty sand, orangish red, loose to sticky, coarse grain, gravel up to 1/2"	3.5
35					sand, tan, fine to coarse grain, loose, damp, gravel up to 3/4"	



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WATER LEVELS : START: 3/16/2006 END: 3/20/2006 LOGGER: Mike Karafa 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 RESULTS MOISTURE CONTENT, RELATIVE DENSITY, DRILLING FLUID LOSS, 6"-6"-6"-6" OR CONSISTENCY, SOIL STRUCTURE, TESTS, AND INSTRUMENTATION. (N) MINERALOGY Corrected FID (ppm): sand, tan, fine to medium grain, loose, dry, pea size gravel 40 85 0.0 sand, light tan, very fine grain, loose, dry sand, orangish tan, dry loose, fine to coarse grain, gravel up to 3/4 100 50 sand, light tan, very fine grain, loose, dry, pea size gravel 0.0 55 sand, orangish tan, fine to medium grain, loose, dry, gravel pea size up to 1/2 60 100 0.0 65 sand, orange, damp, fine grain, loose 70 100 0.0



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DRILLING METI	ORILLING METHOD AND EQUIPMENT USED: Rotasonic rig (4 inch sample casing / 6 inch outer casing)				

DEPTHICATION PLANTS AND PROPERTY IN THE PROPER		RLEVELS		EQUII WEIT	START:	3/16/2006 END: 3/20/2006 LOGGER:	Mike Karafa
NTERVAL (FT) PERMETATION TO COVERY (S). NTYPE TEST RESULTS (N) OF CONSTRUCTIVE. OF 45 47 67 67 67 67 67 67 67 67 67 67 67 67 67				-T)			
RECOVERY (S) RETYPE RESULTS (N) RESULTS (N	1						
### Prime ### ### ### ### ### ### ### ### ### #		II VI LIVVI	PECOVE	DV (%)		SOIL NAME LISCS GROUP SYMBOL COLOR	DEPTH OF CASING ORILLING PATE
0 c. One STRUCTURE. (h) MMERALOGY. Sand. crange, fire to coarse grain, loose, damp to wet, gravel up to 1/2" Sand. crange, fire to coarse grain, loose, pea size gravel, saturates 0.0 80			KLCOVLI	#/TYPF			
No. Minicipal Corresponding to the coarse grain, loose, damp to wet, gravel up to 1/2* and, orange, fine to coarse grain, loose, damp to wet, gravel up to 1/2* sand, orange, fine to coarse grain, loose, pea size gravel, saturater. 0.0 alty clay, orange, self, damp, gray sity clay motitos Boring terminated at 88-feet Boring terminated at 88-feet				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
and, orange, fire to coarse grain, loose, damp to wet, gravel us to 1/2" sand, orange, fire to coarse grain, loose, pea size gravel, saturater 0.0 Sand, orange, fire to coarse grain, loose, pea size gravel, saturater 0.0 Sity day, orange, stiff, damp, grey sity clay mottles Boring terminated at 88-feet 100 100 100 100 100 100 100							
75					(14)		Concocca i iz (ppin).
Sand, orange, fine to coarse grain, loose, pea size gravel, saturates 0.0 Sally day, orange, stiff, damp, grey sily day motities Borring terminated at 88-feet 85	75		i				
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80 _	-	i	i			cand orange fine to coarse grain loose hea size gravel saturates	0.0
86		i i	Ī			said, orange, line to coarse grain, loose, pea size graver, saturater	0.0
86		1					
86	80	<u> </u>	100				
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86	-					silty clay, orange, stiff, damp, grey silty clay mottles	
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