

PROJECT NUMBER 113630.01.ZZ BORING NUMBER

MW-44 (M)

SHEET 1 OF 3

## SOIL BORING LOG

PROJE	CT DDI	4T Grou	ndwater	Investigation	LOCATION Memphis, TN			
ELEV	ATION _	W			DRILLING CONTRACTOR Boart Longyear			
				PMENT Rotasonic				
	RLEVEL			C 1/16/96	START 0945, 1/15/96	FINISH 1715, 1/15/96	LOGGER S. Bruer	
₹Ê.	INTERVAL  NUMBER  NUMBER  NUMBER  AND TYPE  STANDARD  LESULTS  B999.   Output  NOM AND TYPE  RESULTS  RESULTS  PENETRATION  TEST  TEST  RESULTS		STANDARD PENETRATION	SOIL DESCRIPTION		COMMENTS		
DEPTH BELOW SURFACE (FT)			RECOVERY	6" -6" -6"	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RAT DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
	3		3		3-inches CONCRETE SILTY CLAY (CL), light be medium stiff,	rown, moist,	Start Drilling: 0945 Modified loess	
50	5		2			-	0949	
5.0 -							1000	
			5			-		
10.0 -	10				With black and orange mo ft.	ttling below 10 -	1006	
-			5		Trace coarse quartz sand	and fine to		
16.0	15				coarse, subrounded, cher ft.	t gravel below 14	1013	
-			5		SANDY CLAY (CL), light b red mottling, moist, stiff	rown with brick	Fluvial Deposits	
20.0 —	20				CLAYEY SAND (SC), brick and gray intermixing, moist fine to medium, quartz, tra subrounded chert gravel	t, medium dense,	18 ft. to 20 ft.  HNU = 2 ppm  Headspace in ziplock bag	
_			5		WELL-GRADED GRAVELLY orange, wet, loose to med to coarse, quartz with fine subanuglar to subrounded,	ium dense, fine = = to coarse, = = = = = = = = = = = = = = = = = = =	- -	
25.0 —	25					-	1049	
1 1			6			-	- - -	
_						1	29 ft. to 30 ft. HNU = 2 ppm	



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SHEET 2 OF 3

## SOIL BORING LOG

PROJE	CT <u>DD</u> I	1T Groun	ndwater	Investigation	LOCATION Memphis, TN			
ELEVA					_ DRILLING CONTRACTOR _B	oart Long	year	
DRILLING METHOD AND EQUIPMENT Rotasonic								
WATER	LEVEL	s <u>51.87</u>	ft. BTO	C 1/16/96	START 0945, 1/15/96	_ FINISH	1715, 1/15/96	LOGGER S. Bruer
æF		SAMPLE		STANDARD PENETRATION	SOIL DESCI	RIPTION		COMMENTS
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	TEST RESULTS 6° -6° -6° (N)	SOIL NAME, USCS GROUP MOISTURE CONTENT, REL OR CONSISTENCY, SOIL S MINERALOGY	SYMBOL, ATIVE DE STRUCTUR	COLOR, ENSITY RE,	DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
ಹಹ	<u> </u>	ŽĀ	œ	(17)				
-	31					-,=,		1100
-			4		POORLY-GRADED SAND loose, medium, quartz, wi subrounded chert grave	(SP), ora ith trace (	nge, wet, fine,	- - -
	35							
36.0							- - -	1112 - - -
							]	
40.0			8				- - -	-
-							4	
_	43		2				-	1137
45.0	45							
45.0							٦	1148
							_	
-							7	<del>-</del>
-							4	-
50.0 —			10			*	-	-
-					·		-	-
								<u>.</u>
							_	
							]	
	55						1	
55.0 — - -	33		5		WELL-GRADED SAND (S (saturated), loose, fine with trace fine, subround	W), orange to coarse led chert	e, wet , quartz, gravel	1209, Fluvial Aquifer 1210, drillers take break 1230, drilling again -



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SHEET 3 OF 3

## SOIL BORING LOG

PROJECT DDMT Groundwater Investigation					LOCATION Memphis, TN			
ELEVA	TION _				DRILLING CONTRACTOR Boart Longyear			
				PMENT Rotasonic				
WATER	LEVEL	s <u>51.87</u>	ft. BTO	C 1/16/96	START 0945, 1/15/98	_FINISH 1715, 1/15/96	LOGGER S. Bruer	
æ£		SAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION	RIPTION	COMMENTS	
DEPTH BELOW SURFACE (FT)	9 INTERVAL	INTERVAL NUMBER AND TYPE RECOVERY		7EST RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RAT DRILLING FLUID LOSS TESTS AND INSTRUMENTATION	
	60				Yellowish-orange below	60 ft.	1305, lunch break	
	85	**************************************	5			- - -	1330, drilling again	
65.0 -	65				-		1340	
70.0			10					
75.0 — - -	75					- - -	1400	
80.0			10	·	SILTY CLAY (CL), light gray to black mottling, i	gray, with dark moist, medium stiff	77 ft.  Medium to coarse gravel-sized, ferrugious sandstone fragments at contact between SW and CL at 78 ft., dark brown to dark red, well cemented Pocket Penetrometer: 1.5, 1.75, 1.75 tst Jackson Formation/Upper Claiborne Group	
86.0 —	85							
-	87.5		0				1425 - 1540, Installing MW-44	
_					Boring terminated at 87	.5 ft	1715, MW-44 installed (see attached construction log)	