

PROJECT NUMBER

BORING NUMBER

113630.01.ZZ

MW-40 (0) SHEET 1 OF 4

PRO.	ECT 🗅	DMT Gr	oundwate	er Investigation		LOCATION_Memphis,	TN_		
ELE	MOITAV				DRILLING CONTRACTOR Boart Longyear				
				IPMENT Rotasonic					
		LS 80	.80 ft. B	TOC 1/14/96	START 1025, 1/10/98	FINISH 1805, 1/10/9	6 LOGGER S. Bruer		
¥ .	€	SAME	LE	STANDARD PENETRATION	SOIL DESC	CRIPTION	COMMENTS		
DEPTH BELOW	INTERVAL	NUMBER TXST	RECOVERY	RESULTS 6° -6° -6° (N)	SOIL NAME, USCS GROUP MOISTURE CONTENT, RE OR CONSISTENCY, SOIL MINERALOGY	DEPTH OF CASING, DRILLING RAD DRILLING FLUID LOSS TESTS AND INSTRUMENTATION			
	0		5		1-inch TOPSOIL SILTY CLAY (CL), light quartz sand and chert	brown, moist, with gravel (FILL)	Start drilling at 1025		
5.0	5				Black, moist, with broke metal pieces, and organ	n glass shards, nics -	Strong organic decay odor in FILL		
	1 1		5				HNU = 2 to 5 ppm at 5 ft. to 10 ft.		
10.0 -	10		5		CLAYEY SILT (ML), gree soft, low plasticity with I below 11 ft.	enish-gray, moist, brown mottling	Modified loess		
15.0 -	15				Light brown and gray be		-		
			5		SILTY CLAY (CL), light be medium stiff, low to medium quartz sand and chert grant clayer SAND (SC), brown oist, medium dense, tracefine to medium chert, occilightly cemented sand	um plasticity, with ravel /	Fluvial Deposits -		
20.0 -	20					_			
-	22.5		2.5		POORLY-GRADED SAND	(SP)			
25.0			6		browish-orange, moist, lo dense, medium, quartz, tra gravel	ose to medium			
1 1	28.5								
-						-	1		



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SHEET 2 OF 4

PROJ								ON Memphis, TN		
	ATION				$-$ Drilling contractor \pm	loart Long	year			
				IPMENT Rotasonic						
WATE	RLEVE	LS 80.8	80 ft. B	TOC 1/14/96	START 1025, 1/10/98	FINISH	1805, 1/10/96	LOGGER S. Bruer		
₹£	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION		COMMENTS			
DEPTH BELOW SURFACE (FT)	S INTERVAL	NUMBER AND TYPE	RECOVERY	RESULTS 6" -6" -6" (N)	SOIL NAME, USCS GROUP MOISTURE CONTENT, REI OR CONSISTENCY, SOIL	SYMBOL, (_ATIVE DE STRUCTUR	COLOR, NSITY E,	DEPTH OF CASING, DRILLING RAT DRILLING FLUID LOSS TESTS AND INSTRUMENTATION		
	30		8.5		WELL-GRADED GRAVELE brownish-orange, moist, coarse, quartz, with sub rounded fine to medium,	loose, fine	to	Gradational contact		
36.0 -	35				_		4			
	- - - - -		5		36.5 ft.: 3-inch layer of gray and lavendar, moist high plasticity 37.5 ft.: 3-inch layer of above at 36.5 ft. POORLY-GRADED SAND	CLAY (CH		Stad flux		
40.0 -	40				brownish-orange, moist, medium, quartz	loose, fine	to _	-		
45.0			7					- - -		
- -	47.5						-	-		
50.0 —			4					- -		
	52				52.5 ft.: 3-inch layer of §	CII TV CAN	D (CH)	Cult		
55.0			8		greenish-gray, moist, loos	BE, fine, qu	artz	Slight organic odor in silty sand layer HNU = 0.0 ppm		
-	60						1	-		



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SHEET 3 OF 4

PROJECT DDMT Groundwater Investigation ELEVATION						LOCATION Memphis, TN			
						DRILLING CONTRACTOR Boart Longyear			
					IPMENT Rotasonic				
		ER LEVELS 80.80 ft. BTOC 1/14/96				START 1025, 1/10/96	FINISH	1805, 1/10/96	LOGGER S. Bruer
3	E	SAMPLE			STANDARD PENETRATION	SOIL DES	CRIPTION		COMMENTS
DEPTH BELOW	SURFACE (INTERVAL	NUMBER AND TYPE	NUMBER AND TYPE RECOVERY	STANDARD PENETRATION TEST 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 65		5		<u>SILTY SAND</u> (SM), ligh to medium dense, fine,	t gray, mois quartz	st, loose	Gradational contact with chert gravel and cobbles at 62 feet with free water
65.0	1	<u> </u>						-	
70.0				7					• • •
75.0	1 7	75				Light brown to brownish ft.	-orange be	elow 73	-
						Light gray and occasion ft.	nal clay bel	ow 76	
80.0				9					- - -
86.0 ·	89	5		10		Light brown below 85 ft.		1	 - - -



PROJECT NUMBER 113630.01.ZZ BORING NUMBER

MW-40 (0)

SHEET 4 OF 4

PROJE	CT DC	MT Grou	ındwate	r Investigation	LOCATION Memphis, TN				
ELEV	ATION .			······································	DRILLING CONTRACTOR Boart Longyear				
				IPMENT Rotasonic					
WATE	R LEVE	LS <u>80.8</u>	0 ft. BT	OC 1/14/96	START 1025, 1/10/96 FINISH 1805, 1/10/	96 LOGGER S. Bruer			
∌Ē.		SAMPL	E	STANDARD	SOIL DESCRIPTION	COMMENTS			
DEPTH BELOW SURFACE (FT)	INTERVAL	NUMBER AND TYPE	RECOVERY	STANDARD PENETRATION TEST 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			
					Light gray below 92 ft.				
	95				93.5 ft.: 3-inch layer of <u>CLAY</u> (CH), light gray, moist, soft	-			
96.0 -	96		1		SILT (ML), light gray, moist, soft	-			
			2.5		SILTY CLAY (CL), light gray, moist, soft, low to medium plasticity	Jackson Formation/Upper Claiborne Group			
-	98.5	ļ				1530 Installing MW-40			
100.0					Boring terminated at 98.5 ft.	1805 MW-40 installed (see attached construcion log)			
						-			
						-			
106.0 —									
-						-			
110.0 —						-			
						-			
115.0 —									
-									
-									