



Proj. No.: 113630.01.ZZ

SOIL BORING LOG

Project: DDMT GW Investigation

Drilling Contractor: Boart LongyearMinnesota

Drilling Method & Equipment: Rotasonic

Logger: S. BruerMGM

Drilling Method & Equipment: Rotasonic					Logger: S. BruerWGM	
Depth Below Surface (FT)	Sample			Standard Penetration Test Results	Soil Description	Comments
	Interval	Number and Type	Recovery (FT)		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
				6"-6"-6" (N)		
Elevation:					Location: Memphis, TN	Boring No. MW-53(E)
Start: 0955 / 07 FEB 96					Finish: 1245 / 08 FEB 96	Water Level: 78 ft bgs
Sheet 1 of 3						
5	0		5		2 inches CONCRETE 1 inch BASE COURSE - chert gravel <u>SILTY CLAY (CL)</u> , light brown with light gray and black mottling, moist, medium stiff, low to medium plasticity	Start Drilling at 0955 (2/7/96)
	5		5		<u>CLAYEY SILT (ML)</u> , light brown, moist, soft, low plasticity	
10	10		5		<u>SILTY CLAY (CL)</u> , light brown, moist, soft, low to medium plasticity	- gradational contact
15	15					
20			10		- with black and orange iron nodules maximum 1/8-inch diameter below 17 ft - stiff with orange and light gray mottling below 19 ft - stiff with black and light gray mottling below 21 ft	
25	25					
30			10		<u>SANDY CLAY (CL)</u> , light brown, moist, stiff, medium plasticity, fine to medium, quartz sand, silty - with light gray and brownish-red intermixing below 32 ft	- gradational contact - increasing sand content with depth <u>Fluvial Deposits</u>
35	35				<u>CLAYEY SAND (SC)</u> , brownish-orange,	- gradational contact

NOTES:

- groundwater level estimated during drilling



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Drilling Method & Equipment:		Rotasonic		Logger: S. BruerWGM		
Depth Below Surface (FT)	Sample			Standard Penetration Test Results	Soil Description	Comments
	Interval	Number and Type	Recovery (FT)			
				6"-5"-5" (N)		
Elevation:				Location: Memphis, TN		Boring No. MW-53(E)
Start: 0955 / 07 FEB 96				Finish: 1245 / 08 FEB 96		
Sheet 2 of 3						
40 						

NOTES:

- groundwater level estimated during drilling



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Depth Below Surface (FT)	Sample			Standard Penetration Test Results 6"-6'-6" (N)	Soil Description Soil name, uscs group symbol, color, moisture content, relative density or consistency, soil structure, mineralogy	Comments Depth of casing, drilling rate, drilling fluid loss, tests and instrumentation
	Interval	Number and Type	Recovery (FT)			
Elevation:					Location: Memphis, TN	Boring No. MW-53(E)
Start: 0955 / 07 FEB 96					Finish: 1245 / 08 FEB 96	Water Level: 78 ft bgs
Sheet 3 of 3						
75	75		3		loose, fine to coarse, quartz, with fine to coarse, subrounded, chert gravel	<u>Fluvial Aquifer</u> - erosional contact at 83 ft <u>Jackson Fm/Upper Claiborne</u> 2/8/96 - 1010: stopped drilling 2/8/96 - : MW-53 installed see attached construction log
					- orangish-brown below 74 ft	
80	80		5		- clayey from 76 ft to 76.5 ft - trace subrounded, chert cobbles below 77 ft - wet below 78 ft	
85	85		5		SILTY CLAY (CL) , light brown and light gray (marbled), moist, stiff, medium plasticity Boring Terminated at 85 Feet	
90						
95						
100						
105						
NOTES: - groundwater level estimated during drilling						