



256 99

PROJECT NUMBER
113630.01.22BORING NUMBER
STB-12

SHEET 1 OF 4

SOIL BORING LOG

PROJECT ODMT Groundwater Investigation

LOCATION Memphis, TN

ELEVATION

DRILLING CONTRACTOR Boart Longyear

DRILLING METHOD AND EQUIPMENT Rolasonic

WATER LEVELS 102 ft. (est.)

START 1345, 1/8/96

FINISH 1850, 1/8/96

LOGGER S. Bruer

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			
0	0		5		3-inches Asphalt 3-inches Base coarse, reddish brown gravelly sand <u>SILTY CLAY</u> (CL), light brown, moist, with gray mottling from 3 ft. depth to 5 ft. depth, dark brown from 5 ft. depth to 10 ft. depth	Start drilling at 1345 SBSTB1202 collected at 1350, 0 ft. to 2 ft., DUP, SPLIT Modified loess
5.0	5		5			
10.0	10		5		<u>CLAYEY SILT</u> (ML), light brown with gray mottling, moist	
15.0	15		5		<u>SILTY CLAY</u> (CL), light brown with gray mottling, moist, trace iron concretions	
20.0	20		5			
25.0	25		10		Light brown below 25 feet	

CKM HILL

256 100

PROJECT NUMBER
113630.01ZZBORING NUMBER
STB-12

SHEET 2 OF 4

SOIL BORING LOG

PROJECT DDMT Groundwater Investigation

LOCATION Memphis, TN

ELEVATION

DRILLING CONTRACTOR Boart Longyear

DRILLING METHOD AND EQUIPMENT Rotasonic

WATER LEVELS 102 ft. (est.)

START 1345, 1/9/98

FINISH 1850, 1/9/98

LOGGER S. Bruer

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6" - 8" - 8" (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			
36.0	35				CLAYEY SAND (SC), orange with brown and gray mottling, moist, fine-grained, quartz, with mica flakes	Gradational contact from approximately 30 feet to 31 feet Fluvial Deposits
40.0			7		38-38.3', CLAY (CH), light gray, moist	
	42				WELL-GRADED SAND (SW), brown, dry to moist, medium to coarse grained, quartz, with some subangular to subrounded chert gravel	Gradational contact from approximately 38 feet to 38.5 feet
45.0	45		3		POORLY-GRADED SAND (SP), buff, moist, fine-grained, quartz, orange from 43.5 feet to 44.25 feet	Gradational contact from approximately 43 feet to 43.3 feet
50.0			10		WELL-GRADED SAND (SW), orange, moist, medium to coarse grained, quartz, with some subangular to subrounded chert gravel POORLY-GRADED SAND (SP), buff colored, moist, medium grained, rounded quartz Orange below 52 feet	
55.0	55				WELL-GRADED SAND (SW), brown, moist to wet, medium to coarse grained, quartz, with some subrounded to subangular chert gravel	Free water present from 54 feet to 57 feet
			8		POORLY-GRADED SAND (SP), brown to orange, moist, medium grained quartz	
60						

CHM HILL

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SHEET 3 OF 4

SOIL BORING LOG

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ELEVATION

DRILLING CONTRACTOR Boart Longyear

DRILLING METHOD AND EQUIPMENT Rotasonic

WATER LEVELS 102 ft. (est.)

START 1345, 1/9/98

FINISH 1850, 1/8/98

LOGGER S. Bruer

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 8" - 8" - 8" (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			
65.0	85				With trace subangular chert gravel below 81 feet POORLY-GRADED SAND (SP), buff colored, moist, medium grained, with some subrounded to subangular chert gravel, orange colored from 84.5 feet to 85 feet	Coarse, subrounded chert gravel present at contact between buff and orange sands
70.0			8.5		WELL-GRADED SAND (SW), brown, moist to wet, medium to coarse grained, trace to some subrounded to subangular chert gravel	
75.0	75				POORLY-GRADED SAND (SP), brown, moist, medium grained, quartz, trace subangular chert gravel	
80.0			10			
85.0	85				Orange and fine-grained below 85 feet	

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	INTERVAL	NUMBER AND TYPE	RECOVERY			
90						
95.0			13		Orange to brown below 94 feet	
100.0						
103					Wet below 102 feet	
105.0			5		CLAY (CH), dark gray, moist, hard, lignitic	Jackson Formation/Upper Claiborne Group
108						Stop drilling at 1850
110.0					Boring terminated at 108 ft.	Grouted borehole with pure gold high solids bentonite grout on 1/6/98.
115.0						