

PARSONS ENGINEERING SCIENCE

SOIL BORING LOG AND WELL CONSTRUCTION RECORD

Client <u>CEHNC</u> Site <u>Memphis Depot</u> Boring I.D. <u>SB-3</u> Geologist/Engineer <u>B. Burkingstock, R. Surrency</u> Drilling Method <u>1/4" HSA</u> Sampling Method <u>3" Diameter Split Spoon</u> Date Started <u>8/6/98</u> Date Completed <u>8/21/98</u> Driller <u>Atlanta Testing and Engineering</u> Borehole Diameter (in) <u>8</u> Depth Drilled (ft) <u>85.5</u> Ground Elevation (ft) <u>289.83</u> Depth to Water (ft) <u>88.98</u> Date Measured <u>8/27/98</u>	<div style="text-align: right;">Page 1 of 3</div> Project I.D. <u>732283.02</u> Well I.D. <u>MW-59</u> Date Installed <u>8/21/98</u> Date Grouted <u>8/21/98</u> Casing Material <u>2" Diameter sch 40 PVC</u> Screen Material <u>0.010 Slot 2" PVC</u> Casing Interval (ft) <u>0-72.5</u> Screened Interval (ft) <u>72.5-82.5</u> Sump Installed? <u>NO</u> Well Depth (ft) <u>83</u> TOC Elevation (ft) <u>289.55</u> Water Level (ft) <u>220.59</u> Date Measured <u>8/27/98</u>
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DEPTH (feet)	SAMPLE	BLOWS/6 IN	X REC.	HNU/QVA (ppm)	LITHOLOGIC DESCRIPTION	SOIL CLASS	GRAPHIC LOG	WELL DIAGRAM
0	X	N/A	N/A	0.3	TOP SOIL, SILT with some clay (7.5YR-5/4)	ML		
10.20, 22.21	X	100		0	SILT, hard, dry, some clay, tan-brown (10YR-5/8), some pebbles.			
13.11, 13.15	X	90		0	SILT, est 30% clay, mottled, little gravel, dry, brownish yellow, (10YR-8/8).			
7.8, 6.5	X	95		0	Burnt material, black in color, hard, gravel-like.			
3.4, 5.8	X	80		0	Top 4" as above, piece of concrete at 8.5, silt with clay from 7.5- 8.7, yellowish brown (10YR-5/8), at 8.7' SAND, medium, well-sorted, slightly moist.	GM		
4.5, 4.5	X	85		0	From 9-9.4' SAND, medium to coarse, 9.4-11' SILT with some clay increasing with depth, greenish gray (5GY-8/1), at 10.5 turns light brown.	ML		
4.8, 8.9	X	90		0	SILT, trace clay, mottled, light brown, (7.5YR-8/4), dry.			
8.7, 7.12	X	90		0	SILT, some clay, mottled, trace roots, reddish yellow, (7.5YR-8/8), slightly moist.			
4.5, 7.-	X	90		20.3	CLAY, some silt, firm, brown, (7.5YR-5/3), slightly moist.	CL		
6.9, 15.-	X	80		17.6	SILT, some clay, brown (7.5YR-5/4), firm to stiff, slightly moist.	ML		
5.7, 9.-	X	90		22.2		GM		

Riser
 Bentonite Slurry
 WRAP

ENGINEERING - SCIENCE

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Client CEHNCSite Memphis DepotBoring I.D. SB-1Geologist B. Burkingstock, R. Surrency

Page 3 of 3

Project I.D. 732283.02Well I.D. MW-59Date Installed 8/21/98

DEPTH (feet)	SAMPLE	BLOWS/6 IN	PREC	WNUOVA (ppm)	LITHOLOGIC DESCRIPTION	SOIL CLASS	GRAPHIC LOG	WELL DIAGRAM
65	X				SAND, to 64.5', as above, at 65', 3-4" thick CLAY layer, pale brown (10YR-8/2), below clay, SAND (80%), with subrounded gravel (40%), SAND, medium to coarse, well sorted, loose.	GM		
70	X	13,27, 34	5C	7.9	SAND, with subrounded gravel, medium to coarse, well sorted, loose, strong brown (7.5YR-5/8), possibly at or below water table.			
	X	7,10, 16,-	2C	N/A	SAND, with subrounded gravel, same sorting and color as above, wet.			
	X	7,8, 12,-	2C	N/A	SAND, as above.			
	X	6,16, 30,-	2C	N/A	SAND, as above.			
75	X	20,33, 30,-	2C	N/A	SAND, as above, but no gravel, 74-75', dense CLAY filled half of spoon length-wise, brown (7.5YR-4/4), wet.			
	X	25,30, 40	4C	N/A	SAND, strong brown (7.5YR-5/8), medium, well sorted, loose, wet.			
	X	16,40, 50	4C	N/A	SAND, as above			
80	X	10,17, 22	4C	N/A	SAND, as above			
	X				SAND, as above			
85		30,50, -	0	N/A	No Recovery			
					Boring terminated at 85.5' BGS.			
90								
95								
100								