

Client: ms consultants						Project: FRA-70-8.93						Job No. 0221-1004.01								
LOG OF: Boring B-041-0-08						Location:						Date Drilled: 6/23/2008 to 6/25/2008								
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery	Sample No.		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: 13.0'-15.5', 52.0'-92.0' Water level at completion: 37.1' (includes drilling water) FIELD NOTES: Advanced boring using 4.0" diameter flush joint casing. DESCRIPTION	Graphic Log	GRADATION						STANDARD PENETRATION (N60) Natural Moisture Content, % - ● PL ————— LL Blows per foot - ○ / Non-Plastic - NP 10 20 30 40					
				Drive	Press / Core				% Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay						
52.0	709.7						Hard gray SANDY SILT (A-4a), little gravel; damp to moist.													
	707.7						Very dense brown and gray GRAVEL WITH SAND (A-1-b), little gravel, trace to little silty clay; wet. @ 52.0'-58.5', cobbles and boulders.													
		18 30 49	18			18			38	30	---	21	--	11	--					83
		50/5	5			19														
		6 30 38	18			20														
67.0	692.7						Very dense black, brown, and gray GRAVEL (A-1-a), little fine to coarse sand, trace silty clay; wet.													
		11 18 40	8			21			78	13	---	5	--	4	--					61
		48 50/4	7			22														
75	684.7																			50+