Client: ms consultants | *Project:* FRA-70-8.93 | *Job No.* 0221-1004.01

LOG OF: Boring B-037-0-08 | *Location:* Sta. 207+95.00, 29.17' LT., BL I-70 WB | *Date Drilled:* 7/21/2008 to 7/24/2008

WATER OBSERVATIONS:
Water seepage at: 21.0', 25.4', 33.0', 40.5'
Water level at completion: 25.6' (prior to coring), 51.6' (includes drilling water)
FIELD NOTES: *Advanced boring using 3.0" diameter flush joint casing.*

Depth (ft)	Elev. (ft)	Blows per 6"	Recovery	Sample No. Drive	Sample No. Press / Core	Hand Penetrometer (tsf)	DESCRIPTION	Graphic Log	GRADATION % Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N60) / Natural Moisture Content, % - / PL — LL / Blows per foot - ○ / Non-Plastic - NP
	724.1														10 20 30 40
25.4	723.7	24 24	18	12A 12B		4.0	Hard gray SANDY SILT (A-4a), trace to little gravel; damp.								
		16 24 27	1	13			Very dense gray COARSE AND FINE SAND (A-3a), some silt, little gravel; wet.								54
28.5	720.6														
30		14 16 17	18	14		2.5	Very stiff gray SILT AND CLAY (A-6a), some fine to coarse sand, trace to little gravel; damp.								
		5 12 17	18	15		4.0			6	10	---	18	41	25	
33.5	715.6														
35		19 45 50/5	12	16			Very dense gray GRAVEL WITH SAND (A-1-b), little silt; wet.		36	36	---	12	--16--		NP 50+
		16 50/5	5	17			@ 36.0'-36.9', contains cobble fragments.								50+
38.5	710.6														
40		42 50/3	5	18		4.5+	Hard gray SANDY SILT (A-4a), some fine to coarse sand, little gravel; damp.								50+
41.0	708.1														
		31 50/4	10	19			Very dense gray COARSE AND FINE SAND (A-3a), trace to little silt; wet.								50+
45		42 50/5	10	20					0	8	---	75	--17--		NP 50+
		50/3	3	21			@ 48.5'-48.8', possible cobbles.								50+
50	699.1														