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

LOG OF: Boring B-040-0-08 | *Location:* Sta. 211+71.37, 62.65' RT., BL I-70 EB | *Date Drilled:* 8/15/2008 to 8/19/2008

WATER OBSERVATIONS:
Water seepage at: 10.5', 23.0', 47.0'
Water level at completion: 29.7' (beginning of shift, 8/18/08)
29.3' (includes drilling water)

FIELD NOTES: *Advanced boring using 4.0" 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 (10 20 30 40)
	708.9						Very dense gray GRAVEL (A-1-a), trace silt; contains cobble fragments; wet.								
		50/5	3	20											50+
55															
57.0	701.9														
							Very dense gray COARSE AND FINE SAND (A-3a), little silt, trace to little gravel; wet.								
		45 50/5	11	21											50+
60															
		30 35 33	12	22					9	23	---	54	--14--		NP ● 72
65															
		50/3	0	23			@ 68.5'-72.0', possible cobbles.								50+
70															
75	683.9	34 48 48	13	24											101