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

LOG OF: Boring B-043-0-08 | *Location:* Sta. 215+73.16, 1.06' LT., BL I-70 WB | *Date Drilled:* 7/16/2008 to 7/20/2008

WATER OBSERVATIONS:
Water seepage at: 37.0', 77.0'
Water level at completion: 14.4' (includes drilling water)

FIELD NOTES:
Advanced boring using 3.25" diameter hollowstem augers.

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
	643.1														
105		Core 60"	Rec 60"	RQD 82%	R2		Shale, blue-gray, weak, highly weathered, thinly laminated, slightly calcareous, pyritic, jointed, moderately to fractured, tight, slightly rough; RQD 88%, Loss 0%. Contains dark gray, well cemented shale zones [thin, dark bands]. Dark shale zones are typically 1-2 inches thick, spaced at intervals of 12 to 18 inches.									
		Core 60"	Rec 60"	RQD 97%	R3		@ 104.3' - 104.7', qu = 1612 psi								
110.3 110	632.8														
		Core 60"	Rec 60"	RQD 87%	R4		Shale, dark gray, moderately to highly weathered, weak, thinly laminated, fissile, friable, pyritic, calcareous, jointed, fractured to moderately fractured, tight, slightly rough; RQD 87%, Loss 0%.								
115.0 115	628.1														
							Bottom of Boring - 115.0'								
120															
125															