DLZ Ohio, Inc. * 6121 Huntley Road, Columbus, Ohio 43229 * (614) 888-0040

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 (10 20 30 40)
	674.1						Very dense gray COARSE AND FINE SAND (A-3a), little gravel, trace silt; wet.								
		47 50/4	5	27											50+ ○
80							@ 75.0'-100.0', difficult advancement of casing due to gravel and boulders.								
		50/4	1	28											50+ ○
85															
		27 50/5	5	29											50+ ○
90															
92.0	657.1														
							Very dense gray GRAVEL (A-1-a); wet.								
		14 14 34	3	30											○
95															
		50/4	1	31											50+ ○
100	649.1														