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
	699.1						Hard gray SILT (A-4b), little fine to coarse sand, trace gravel; damp.								
		29 50/5	11	22		4.5+			3	3	---	10	63	21	50+
55															
57.0	692.1														
							Very dense gray GRAVEL WITH SAND (A-1-b), some fine to coarse sand, trace silt; wet.								
		25 50/3	3	23			@ 59.0'-75.0', encountered cobbles and boulders.								50+
60															
62.0	687.1														
							Very dense gray COARSE AND FINE SAND (A-3a), little to some silt, little gravel; wet.								
		45 50/5	4	24					17	24	---	39	--20--		NP 50+
65															
		50/3	3	25											50+
70															
		50/4	1	26			@ 73.5'-73.8', drove sampler on gravel; poor recovery.								50+
75	674.1														