Illinois Department of Transportation
Division of Highways
District 7 – Materials

SOIL BORING LOG

Page 1 of 3

Date 7/31/07

ROUTE FAP 320 (IL 121) DESCRIPTION Marrow Bone Creek LOGGED BY E. Sandschafer

SECTION (102BY)B-1 LOCATION NW 1/4, SEC. 9, TWP. 14 N, RNG. 4 E, 3 PM

COUNTY Moultrie DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 070-0001
Station 139+18.3

BORING NO. 1
Station 138+71
Offset 15.00ft Rt
Ground Surface Elev. 657.63 ft

Surface Water Elev. 639.80 ft
Stream Bed Elev. 639.10 ft

Groundwater Elev.:
First Encounter 634.3 ft
Upon Completion Washed ft
After 24 Hrs. 643.2 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.5" asphalt pavement.	656.73				
Hard, damp, brown, CLAY TILL.			2		
			4	4.5	13
			6	PP	
	653.13				
Medium, damp, brown, CLAY LOAM TILL.		-5	2		
			2	0.9	15
			3	B	
	650.63				
Soft to medium, damp, LOAM TILL.			1		
			2	0.5	25
			3	B	
	648.13				
Medium, damp, gray, LOAM.		-10	1		
			2	0.8	29
			3	B	
	645.63				
Medium, damp, dark gray, SILTY LOAM.			0		
			3	0.9	28
			3	B	
	642.63	-15	1		
Stiff to medium, damp, dark gray, CLAY w/ trace fine gravel.			3	1.7	22
			4	B	
			2		
			2	0.9	21
			4	B	
	637.63	-20	3		
Very stiff, damp, gray, CLAY LOAM TILL.			6	2.8	13
			10	B	
	634.33				
Gray, fine grained, SAND.					
	633.13				
Very stiff, damp, gray, CLAY LOAM TILL.		-25	4		
			7	4.1	12
			11	B	
			3		
			5	2.8	12
			8	B	
		-30	4		
			7	3.4	12
			11	B	
	623.13				
Medium, damp, dark gray, SANDY LOAM TILL w/ trace Coal fragments.		-35	2		
			4	0.9	17
			5	B	
	618.13	-40	3		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Latitude N 39 deg 46.487 min, Longitude W 88 deg 46.469 min, Map Datum WGS 84

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very stiff, damp, gray, CLAY LOAM TILL. (continued)			4	1.7	22
			5	B	
			3		
			7	3.6	11
			14	B	
		-45	4		
			7	4.1	12
			11	B	
			3		
			5	2.8	12
			8	B	
		-60	4		
			7	3.4	12
			11	B	
		-65	2		
			4	0.9	17
			5	B	
			5		
			7	3.0	12
			9	B	
	608.13				
Brown, fine grained, SAND. 5% passing #200 sieve.		-85	12		
	607.13		50	+4.5	6
Hard, very moist, gray, SANDY CLAY TILL. Very hard drilling.			50/3"	PP	
			14		
Hard, very moist, gray, SANDY CLAY TILL. Very hard drilling. (continued)			39	4.3	8
			50/5"	S	
		-95			
			24		
			31	9.3	9
			40	S	
		-105			
		-110	12		

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, very moist, gray, SANDY CLAY TILL. Very hard drilling. (continued)			27	7.3	10
			40	S	
		-115			
		-120	25		
			37	7.8	9
			50/5"	S	
		-125			
		-130			
		-135			
		-140	13		
Hard, damp, brown, CLAY LOAM TILL. (continued)			22	5.6	11
			32	S	
		-115			
	548.13				
Very stiff, moist, gray, SILTY CLAY SHALE.		-110	50		
	547.33		50/2"	3.2	7
Extent of exploration.			50/2"	S	
Benchmark: BM 201 Chiseled square on top of NE wingwall on existing structure 070-0001, Sta 139+44, 23.4 Lt = 657.57. elevation. Provided by Program Development.					
		-115			
		-120			

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DESIGNED -	EXAMINED	DATE - 10/11/2011	
CHECKED -	ENGINEER OF BRIDGE DESIGN		
DRAWN -	PASSED		
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 070-0050
SHEET NO. 19 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	43	35
		CONTRACT NO. 74280		
		ILLINOIS FED. AID PROJECT		