

Illinois Department of Transportation
Division of Highways
District 7 - Materials

SOIL BORING LOG

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Date 7/30/07

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. 2
Station 139+70
Offset 13.00ft LI
Ground Surface Elev. 656.85 ft

DEPTH (ft)	BLOWS	SPT	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS	SPT	MOISTURE (%)
18	4.3	15		Hard, very moist, gray, CLAY LOAM TILL. (continued)	22	4.6	11	
32	S				35	B		
19				Very dense, moist, gray, SILTY CLAY SHALE.	547.35	50/5"		
28	4.5	10		Borehole continued with rock coring.	546.75	50/2"	2.4	5
32	PP					50/1"	S	

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, form 137 (Rev. 8-99)

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ROCK BORING LOG

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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 CORING METHOD Rotary, surf. set diamond bit

STRUCT. NO. 070-0001
Station 139+18.3

BORING NO. 2
Station 139+70
Offset 13.00ft LI
Ground Surface Elev. 656.85 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 547.35 ft
Begin Core Elev. 546.75 ft

DEPTH (ft)	CORING	REMARKS	CORRECTION (%)	CORE DIAMETER (in)	SPT	UCS (psi)	REMARKS
546.75	B2-1	Gray, moderately weathered, SILTY CLAY SHALE.	91	54	0.9		
		Rock core sample B2C1 @ 111.6' to 112.1' depth = 5.9 tsf Qu.					
	B2-2		94	78	1.2		
		Rock core sample B2C2 @ 115.6' to 116.1' depth = 9.0 tsf Qu.					
537.05		Extent of exploration.					

Benchmark: BM 201 Chiseled square on top of NE wingwall on existing structure 070-0001, Sta 139+44, 23.4 LI = 657.57' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 07/30/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, form 138 (Rev. 8-99)

DESIGNED -	EXAMINED	DATE - 10/11/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 070-0050	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	PASSED	ENGINEER OF BRIDGE DESIGN			320	(102BY)B-1	MOULTRIE	45	31	
DRAWN -		ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 21 OF 21 SHEETS		CONTRACT NO. 74280			
CHECKED -					ILLINOIS FED. AID PROJECT					