Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 5/10/10

ROUTE FAP 749 (IL 133) DESCRIPTION Embarras River LOGGED BY E. Sandschafer

SECTION (122BR)B-1 LOCATION W 1/2 – Sec 14, E 1/2 – Sec 15, SEC. , TWP. 14 N, RNG. 10 E, 3 PM

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

STRUCT. NO. 015–0030
Station 713 + 10

BORING NO. 101 (2010)
Station 711 + 27
Offset 7.0ft Lt
Ground Surface Elev. 626.66 ft

Surface Water Elev. 596.00 ft
Stream Bed Elev. 593.00 ft

Groundwater Elev.:
First Encounter 604.0 ft
Upon Completion Dry ft
After 24 Hrs. 610.2 ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
4 1/8" asphalt on 12" concrete pavement.				Hard, damp, brown/gray, CLAY LOAM TILL.	10	4.6	9
625.36					16	BS	
Stiff to medium, damp, gray, CLAY TILL, frll.	3				23		
	3	1.9	13	603.96	39	+4.5	7
	4	B		Wet, brown, fine grained, SAND. 603.66	25	PP	
				Hard, very moist, gray, CLAY LOAM TILL.			
–5	1			–25	17		
	1	0.9	16		23	9.7	7
	3	B			24	B	
619.66							
Soft to medium, damp, gray, SILTY CLAY.	1				6		
	1	0.5	18		13	8.1	12
	2	B			18	S	
617.16				597.16			
Soft to medium, damp, brown, SANDY LOAM.	–10 1			Very stiff, damp, brown, SILT w/ Sand and many organics, peat like consistency.	–30 3		
	1	0.5	25	596.16	11	2.3	33
	2	S		Gray, CLAY TILL.	13	S	
614.16	0						
Stiff, damp, gray, CLAY.	2	1.8	20				
	4	B					
612.16				592.16			
Stiff, damp, gray, CLAY LOAM.	–15 1			Very dense, very moist, bluish gray, SANDY CLAY SHALE.	–35 3		
	3	2.9	15		32		9
	4	B			37		
	0						
	3	1.9	11				
	5	B					
606.66	–20 6			587.16 586.96	–40 50/4"		6

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer, E–Estimated)
Abbreviations W.O.H – Sampler Advanced By Weight of Hammer, W.O.P – Advanced by Weight of Pipe, B.S. – Before Seating
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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DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SANDSTONE. 586.66	50/1"		
Very dense, moist, gray, SANDY CLAY SHALE. Very hard drilling.	50/1"		
Extent of exploration.			
Benchmark: Chiseled square on SE wingwall of existing structure, BM 1624 714 + 78.5, 18.5' Rt, Elev = 622.32'.			
–45			
–50			
–55			
–60			

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DESIGNED - ___	EXAMINED	Joyce F. Imhoff	DATE - OCTOBER 16, 2014	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SOIL BORING LOGS STRUCTURE NO. 015–0076**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -		ACTING ENGINEER OF BRIDGE DESIGN				749	(122BR)B-1	COLES	60	46
DRAWN -	PASSED	A Carl Piney	REVISED ___		SHEET NO. 29 OF 31 SHEETS			CONTRACT NO. 74350		
CHECKED - ___		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED ___					ILLINOIS FED. AID PROJECT		