STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	215
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 79
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 5

SOIL BORING LOG

Page 1 of 2

Date 10/25/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+18

BORING NO. 0510-P5 Pier 5
Station 912+12
Offset 0.0ft
Ground Surface Elev. 442.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter No Data ft
▽ Upon Completion N/A ft
▽ After ___ Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Fine to Medium SAND			2		
			3		
		-5	2		
GRADATION P5-G1					
			1		
Medium Sand			1		
Begin Mud Rotary Drilling			1		
	434.10				
Grey Medium to Coarse SAND					
GRADATION P5-G2			1		
			1		
		-10	1		
	431.60				
Grey SANDY GRAVEL					
Fine			2		
GRADATION P5-G3			2		
			2		
			1		
Fine to Medium		-15	2		
			4		
			1		
Medium Sandy Gravel			2		
			2		
			1		
		-20	2		
Grey SANDY GRAVEL (continued)			2		
			5		
Grey Medium Sandy Gravel		-25	5		
			6		
Hole Collapsing – Resume HSA Drilling with Mud					
	415.10				
Grey Fine to Medium SAND w/ Some Pea Gravel					
			5		
		-30	5		
GRADATION P5-G4			6		
	410.10				
Grey Fine SANDY GRAVEL					
			8		
GRADATION P5-G5		-35	9		
			10		
			4		
		-40	7		

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, from 137 (Rev. 8-99)

File Name S:\SOIL\DWF FILES\CASS\IL 78 AT SANGAMON RIVER\BRY Date Template DOTSMPLT.DGT Date Printed 8/23/08
Lattice: 40°12.8300 Longitude 90°06.5500 Datum NAD83 Job Number 0-00-000-07

Illinois Department of Transportation
Division of Highways
District 5

SOIL BORING LOG

Page 2 of 2

Date 10/25/07

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Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter No Data ft
▽ Upon Completion N/A ft
▽ After ___ Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Fine SANDY GRAVEL (continued)			7		
		-45			
Grey Fine Sandy Gravel			4		
		-50	5		
			6		
	388.60				
Grey Medium SANDY GRAVEL (Washed) w/Broken Weathered Limestone			100/2"		
		-55			
	387.10				
Auger Refusal – Boring Completed					
		-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
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BORINGS (SHEET 7)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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