STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	219
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 83
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 11/6/07

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

SECTION 144(B-1) LOCATION SE 14, 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+16

BORING NO. 0510-P9 Pier 9
Station 918+01
Offset 0.0ft
Ground Surface Elev. 451.6 ft

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

Groundwater Elev.:
First Encounter 441.6 ft
Upon Completion N/A ft
After Hrs. Plugged ft

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Grey Moist CLAY				
Refer Class P7-1		1		
		2	1.6	31
		3	B	
		1		
		2	2.0	27
	-5	4	B	
		1		
Light Brown and Grey		2	1.5	27
		3	B	
		1		
		2	1.0	29
▽ 441.60	-10	3	B	
Grey SAND				
Free Water		0		
Coarse		1		
		1		
		1		
Medium		2		
	-15	2		
		0		
Fine Sand (Washed)		1		
		2		
		1		
Medium (Washed)		4		
	-20	4		

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey SAND (continued)		5		
Medium Sand w/Some Pea Gravel (Washed)		4		
		3		
		9		
Medium (Washed)		7		
	-25	8		
	425.60			
Grey Medium SANDY GRAVEL				
		5		
Begin Mud Rotary Drilling		4		
Adjusted Sample Interval		6		
	-30			
		4		
		12		
		10		
	-35			
Grey Medium Sandy Gravel		3		
With Some 1" Gravel		5		
		7		
	411.60	-40		

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:\SOILS\DOT FILES\CASS\L 78 AT SANGAMON RIVER.GPJ Date Template DOT\SAM.7.GDT Date Printed 02/05/08
Latitude 40°02'28N Longitude 89°52'28W Datum NAD83 Job Number D-96-002-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 11/6/07

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

SECTION 144(B-1) LOCATION SE 14, 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+16

BORING NO. 0510-P9 Pier 9
Station 918+01
Offset 0.0ft
Ground Surface Elev. 451.6 ft

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

Groundwater Elev.:
First Encounter 441.6 ft
Upon Completion N/A ft
After Hrs. Plugged ft

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND				
		5		
Grey Fine to Medium Sand		9		
		10		
	-45			
		12		
Light Brown Fine to Medium Sand		8		
		7		
	-50			
	-55			
		12		
Grey Medium to Coarse Sand		8		
With Some 1" Gravel		7		
	-60			

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND (continued)				
388.60				
Grey Medium SANDY GRAVEL				
	-65			
		10		
		4		
		7		
382.60				
Light Grey Well Indurated Crystalline LIMESTONE		100/1"		
Rotary Drilled *0.7' in 20 minutes. 381.60	-70			
Boring Completed				
	-75			
	-80			

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:\SOILS\DOT FILES\CASS\L 78 AT SANGAMON RIVER.GPJ Date Template DOT\SAM.7.GDT Date Printed 02/05/08
Latitude 40°02'28N Longitude 89°52'28W Datum NAD83 Job Number D-96-002-07

BORINGS (SHEET 11)
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

© Copyright Hanson Professional Services Inc. MS_YEAR

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

Mar-3-2009 09:05:29 AM
cd:\pw_work\PWIDOT\LAUGHLINRL\d0344980\009-0510 Master Sheet File.dgn