Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 4/20/10

ROUTE FAI 57/70 DESCRIPTION US 45 and I-57/70 Interchange Ramp Traffic Signals LOGGED BY E. Sandschafer

SECTION * LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

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

STRUCT. NO. N/A
Station N/A

BORING NO. TS 1001
Station 66+78
Offset 57.0ft Rt
Ground Surface Elev. 602.70 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 598.0 ft
Upon Completion 584.7 ft
After 24 Hrs. 597.2 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
3" topsoil.	602.40				
Brown, CLAY.					
	600.70				
Stiff, damp, brown, SANDY CLAY w/ GRAVEL.			3		
			4	1.5	13
			4	PP	
	598.00				
Brown, fine grained, SAND.	597.70	-5	2		
Stiff, damp, brown/gray/red, CLAY.			2	1.1	20
			2	B	
			2		
			3	1.9	23
			3	B	
		-10	2		
			2	1.1	17
			3	B	
	590.70				
Gray, SILTY CLAY.			0		
	589.70		5	4.3	11
Hard, damp, brown to gray, CLAY LOAM TILL.			14	B	
		-15	12		
			31	4.9	9
			36	S	
			10		
			21	7.1	9
			29	BS	
	582.70	-20	14		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very stiff, damp, gray, SANDY CLAY LOAM TILL.			26	3.4	9
			29	S	
	578.20				
Hard, damp, gray, CLAY LOAM TILL.		-25	23		
			50	+4.5	7
	576.80		50/5"	PP	
Extent of exploration.					
* Contract 74295 Section (25-4)R & (25-4HVB-1)BY & (25-4)BR US 45 and I-57/70 Interchange Ramps A & B North side of Interchange US 45 Stationing		-30			
		-35			
		-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:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\EFFINGHAM CO (025)\I-57_70 THREE LANES\025-I70_I57 TRAF SIGNAL FDNS 2010.GPJ Data Template DGTEMPLT.GDT Date Printed 4/11/13
Latitude W 88 deg 31.962 min Longitude N 39 deg 08.827 min Datum Job Number

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SECTION * LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

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

STRUCT. NO. N/A
Station N/A

BORING NO. TS 1002
Station 65+24
Offset 37.0ft Lt
Ground Surface Elev. 601.47 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 579.5 ft
Upon Completion 588.0 ft
After 24 Hrs. 595.0 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
3" topsoil.	601.17				
Medium to very stiff, damp, brown/gray/red, CLAY.					
			13		
			6	2.3	15
			15	PP	
		-5	3		
			5	1.0	17
			8	B	
			2		
			4	1.5	20
			5	B	
	591.97				
Medium to very stiff, damp, gray marbled red, CLAY LOAM.		-10	2		
			3	0.7	20
			3	B	
			4		
			10	2.6	12
			17	B	
	586.97				
Hard to very dense, very moist, brown to gray, SANDY CLAY LOAM TILL.		-15	20		
			28	6.7	9
			37	S	
			16		
			25	7.2	8
			28	BS	
		-20	22		

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Hard to very dense, very moist, brown to gray, SANDY CLAY LOAM TILL. (continued)			48		7
			50		
			29		
			48		13
	577.97		50/5"		
Extent of exploration.					
		-25			
* Contract 74295 Section (25-4)R & (25-4HVB-1)BY & (25-4)BR US 45 and I-57/70 Interchange Ramps A & B North side of Interchange US 45 Stationing		-30			
		-35			
		-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
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Latitude W 88 deg 31.994 min Longitude N 39 deg 08.807 min Datum Job Number

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL BORINGS

SCALE: SHEET 7A OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	EFFINGHAM	1760	447A

CONTRACT NO. 74295

ILLINOIS FED. AID PROJECT

*(25-4)R & (25-4HVB-1)BY