Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG

Date 9/7/10

ROUTE FAP 885 (IL 146) DESCRIPTION FAP 885 (IL 146) over Peters Creek LOGGED BY R. Moberly

SECTION 11B-1 LONGITUDE _____ LATITUDE _____

COUNTY Hardin DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 035-0012
Station 226+28

BORING NO. 1-S
Station 227+60
Offset 9.00ft Lt
Ground Surface Elev. 369.8 ft

Surface Water Elev. 355.5 ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 352.8 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Asphalt and Concrete			
369.3			
Soft, very moist, red brown, Silty Clay A-6	WH		
	WH	0.4	25
	WH	B	
-5	WH		
364.3	WH	1.9	23
Stiff, moist, red brown, Clay A7-6	1	B	
362.8			
Medium to soft, moist to very moist, grey, Silty Clay Loam A-6	1		
	1	0.9	24
	1	B	
-10	WH		
	1	0.6	20
	1	B	
357.8			
Stiff, moist, grey, Silty Clay Loam A-6	3		
	2	1.3	23
	2	B	
355.3			
Medium dense to loose, v moist Sand and Gravel 70% Sand 11% Silt 5% Clay	1		
-15	6		17
	5		
352.8			
14% Gravel	1		
	3		17
	2		
350.3			
-20	WH		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium to soft, very moist, grey, Silty Clay A7-6 (continued)	1	0.8	26
	2	B	
	WH		
	WH	0.5	28
	WH	B	
345.3			
-25 Medium dense, very moist, grey, Sand with some Gravel and Clay	2		
	9		
	6		
342.8			
Stiff, moist, grey and brown, Clay A7-6	1		
	4	1.4	22
	6	B	
340.3			
-30 Very stiff, moist, brown, Clay A7-6	2		
	4	2.3	25
	6	B	
337.8			
Stiff, moist, brown, Clay A7-6	2		
	4	1.7	43
	5	B	
-35	2		
	3	1.6	29
	5	S	
	1		
	4	1.9	26
	4	B	
-40	1		

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. 11-11)

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DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Stiff, moist, brown, Clay A7-6 (continued)	4	1.3	30
	4	B	
326.3			
-45 Medium, very moist, brown, Clay A7-6 with gravel	1		
	2	0.7	32
	3	B	
-50	WH		
	1	0.7	32
	1	B	
316.3			
-55 Very soft, wet, brown, Silty Clay A7-6	WR		
	WR	0.2	35
	WR	B	
311.8			
Hard, dry, gray, Limestone 311.3	100/1"		
-60 Bottom of hole = 58.1 feet			

Free water observed at 17.0 feet.

Elevation referenced to BM at NW wingwall; Elev. = 370.8 feet

Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)

To convert "N" values to "N60", multiply by 1.25.

-65 -70 -75 -80

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. 11-11)

1 SHEET ADDED 1-4-13

DESIGNED - Michael D. Rolapa	EXAMINED	DATE - NOVEMBER 21, 2012	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - Stephen M. Ryan	PASSED	REVISED ____	
DRAWN - Michael B. Mossman	ACTING ENGINEER OF BRIDGE DESIGN	REVISED ____	
CHECKED - GRA/SMR	ACTING ENGINEER OF BRIDGES AND STRUCTURES		

SOIL BORING LOGS
STRUCTURE NO. 035-0016
SHEET NO. 20 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	11B-1	HARDIN	50	40
		CONTRACT NO. 78152		
	ILLINOIS FED. AID PROJECT			