12/10/2007 12:12:17 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. P.A.P. 310	*	MADISON	239	167
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 45
48 SHEETS

* 60-15HB-1 CONTRACT NO. 76635

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3

Date 1/2/2008

ROUTE FAP 310 DESCRIPTION IL 255 over Humbert Road LOGGED BY Larry Ford

SECTION 60-15HB-1 LOCATION NE 1/4, SEC. 23, TWP. 6N, RNG. 10W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0308
Station

BORING NO. #1 E. ABUT
Station 38+811
Offset 14.40m RT CL
Ground Surface Elev. 188.15 m

Surface Water Elev. m
Stream Bed Elev. m
Groundwater Elev.:
First Encounter 185.4 m
Upon Completion m
After Hrs. m

DEPTH (m)	BLOWS (150 mm)	UCS Qu (kPa)	MOIST (%)
Brown and Gray Silty CLAY			
	2		
	3	96	
-3.0	3	B	26
	2		
	3	96	
	4	B	25
-4.5	3		
	3	163	
	4	S/15	21
183.2			
Brown and Gray Clay LOAM	3		
	4	144	
	4	S/10	20
182.3			
SAND Lens 182.1	1		
-6.0			

DEPTH (m)	BLOWS (150 mm)	UCS Qu (kPa)	MOIST (%)
	7	NC	
Brown Clay LOAM	14	450	12
181.7		S/15	
Brown SAND	15		
181.2	26		17
	30	NC	10
Gray Clay LOAM		508	
		S/10	
-7.5	12		
	28	584	
	34	S/10	10
180.2			
Brown SAND	8		
See Gradation @ 7.8 m (27 ft)	9		
	12	NC	22
179.4			
Gray Silty SAND	5		
-9.0 See Gradation @ 10.1 m (33 ft)	13		
	15	NC	20
	9		18
178.1	17	NC	
Gray Clay LOAM	17	172	10
-10.5		S/10	
177.0			
Gray Fine SAND			
See Gradation @ 18.4 m (60.5 ft)			
-12.0	5		

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, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 3

Date 1/2/2008

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After Hrs. m

DEPTH (m)	BLOWS (150 mm)	UCS Qu (kPa)	MOIST (%)
Gray Fine SAND	3		
See Gradation @ 18.4 m (60.5 ft)	4	NR	
(continued)			
-13.5	6		
	13		
	45	NC	22
180.2			
-15.0	8		
	21		
	34	NC	18
-16.5	7		
	10		
	15	NC	18
-18.0	5		

DEPTH (m)	BLOWS (150 mm)	UCS Qu (kPa)	MOIST (%)
Gray Fine SAND	15		
See Gradation @ 18.4 m (60.5 ft)	21	NC	16
(continued)			
169.5			
Gray and Brown Silty SAND			
See Gradation @ 21.5 m (70.5 ft)			
-19.5	4		
	4		
	8	NC	18
-21.0	29		
	16		
	50/6"	NC	18
166.5			
Gray Clay LOAM			
-22.5	6		
	8	211	
	13	S/10	20
165.0			
Brown Very Weathered SHALE			
-24.0	8		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Page 3 of 3

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Stream Bed Elev. m
Groundwater Elev.:
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Upon Completion m
After Hrs. m

DEPTH (m)	BLOWS (150 mm)	UCS Qu (kPa)	MOIST (%)
Brown Very Weathered SHALE	13	240	
(continued)	17	S/5	29
163.5			
Gray Silty CLAY			
-25.5	5		
	7	144	
	9	B	23
156.2			
-27.0	5		
	9	249	
	11	S/15	23
-28.5	24		
	24	192	
	26	P	23
159.2			
Gray Slightly Weathered SHALE			
-30.0	26		

DEPTH (m)	BLOWS (150 mm)	UCS Qu (kPa)	MOIST (%)
Gray Slightly Weathered SHALE	50	527	
(continued)	50/5"	S/10	10
157.5			
Brown and Gray SILTSTONE			
-31.5	50/5"		
		NC	11
155.4			
Hard Shelves			
-33.0	1		
Gray SHALE with Limestone Gravel	1		
154.8	50/2"	NC	51
End of Boring			
-34.5			
-36.0			

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, from 137 (Rev. 8-99)

DESIGNED	ADL
CHECKED	
DRAWN	ADL/DGM
CHECKED	

SOIL BORING LOGS
FAP RTE. 310 (IL RTE. 255) OVER
CH ROUTE 4 (HUMBERT ROAD)
SECTION 60-15HB-1
MADISON COUNTY
STATION 38+829.909
SN 060-0308 (NB) & 060-0309 (SB)

Klingner & Assoc., P.C.

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