Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 10/1/2008

ROUTE FA 646 (IL-40) DESCRIPTION IL-40 over the Rock River LOGGED BY JH

SECTION 1B-2 LOCATION NE 1/4 SEC.28 TWP. 21N RNG. 7EPM 3

COUNTY Whiteside STRUCTURE NO. 098-0014 (Exist.)

BORING NO. P2E DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 727+38
Offset 36 Rt
Ground Surface Elev. ____ (ft.)

Surface Water Elev. 628.11 (ft.)
Groundwater Elev.
First Encounter ____ (ft.)
Upon Completion ____ (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Approx. 9 feet Water		-5			
	619.11				
LIMESTONE WITH CHERT AND WEATHERED LAYERS at 9 feet		-10	50/1"		
Run 1 10' – 17.5' : REC 89/90, 99% RQD 62/90, 69%					
Drill time: 10'–12.5': 3 minutes 12.5'–17.5': 5.5 minutes		-15			
Run 2 17.5' – 27.5' : REC 120/120, 100% RQD 91/120, 76%					
Drill time: 17.5' – 22.5': 5 minutes 22.5' – 27.5': 3.5 minutes		-20			
(continued) LIMESTONE WITH CHERT AND WEATHERED LAYERS		-25			
Run 3 27.5' – 35' : REC 89/90, 99% RQD 55/90, 61%					
Drill time: 27.5' – 32.5': 4 minutes 32.5' – 35': 2 minutes		-30			
	593.11	-35			
Bottom of Boring @ 593.11'		-40			

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
				924	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

Illinois Department of Transportation

ROCK CORE LOG

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Date 10/1/2008

ROUTE FAP 646 (IL 40) DESCRIPTION ILLINOIS 40 OVER ROCK RIVER STERLING – ROCK FALLS LOGGED BY G. Jamison

SECTION 1B-2 LOCATION NE ¼ SEC. 28 TWP. 21N RNG. 7E, 3 PM

COUNTY Whiteside CORING METHOD Wireline

STRUCT. NO. 098-0014 CORING BARREL TYPE & SIZE NQ

Station 729+71.26
Core Diameter 1 7/8 in
Top of Rock Elev. 619.11 ft
Begin Core Elev. 618.11 ft

BORING NO. B-P2E
Station 727+38
Offset 36 Rt
River Water Surface Elev. 628.11 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
DOLOMITE: yellow brown to brown, hard, fine to medium, slightly to non-calcareous, occasional chert; horizontal joints, partially remineralized, generally little to no soil filling. More than 25 pieces, ½"-12" long		1	99	89		
Depth 10-12.5 feet took 3 minutes to core	-15				1.2	
Depth 12.5-17.5 feet took 5.5 minutes to core	619.61 -17.5				1.1	
More than 25 pieces, ½" -11" long; occasional yellow brown layer and vugs; Occasional thin clay layers; occasional large chert inclusions		2	100	76		
	-20					
Depth 17.5-22.5 feet took 5 minutes to core					1.0	
	-25					
Yellow brown at about 27 feet						
Depth 22.5-27.5 feet took 3.5 minutes to core	600.61 -27.5				0.7	
18 pieces, 1"-22" long; inclined joint, 27.5-30 feet.		3	99	61		
More vesicular and vugs, 28.5-30 feet						
Yellow brown to about 31 feet then light gray to gray						
	-30					

Color pictures of the cores Yes
Cores will be stored for examination until ____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS 138 (Rev. 3/01)

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ROCK CORE LOG

Page 2 of 2

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BORING NO. B-P2E
Station 727+38
Offset 36 Rt
River Water Surface Elev. 628.11 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Slightly vesicular and a few vugs below about 31 feet						
Depth 27.5-32.5 feet took 4 minutes to core					0.8	924
Depth 32.5-35 feet took 2 minutes to core	593.11 -35				0.8	

Color pictures of the cores Yes
Cores will be stored for examination until ____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS 138 (Rev. 3/01)

FILE NAME = D264880-sht-borings08.dgn	USER NAME = dwozniarski	DESIGNED - ACB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING AND ROCK CORE LOGS STRUCTURE NO. 098-0115	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JMB	REVISED -			646	1B-2	WHITESIDE	257	193
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - RLK	REVISED -					CONTRACT NO. 64B80		
	PLOT DATE = 7/18/2011	CHECKED - ACB	REVISED -		SHEET NO. 90 OF 103 SHEETS		ILLINOIS FED. AID PROJECT			