Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 10/3/2008

ROUTE FA 648 (IL-40) DESCRIPTION IL-40 over the Rock River LOGGED BY TC

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

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

BORING NO. P6W DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 732+58
Offset 44 Lt
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. 9.7 feet Water					
		-5			
	618.41				
WEATHERED LIMESTONE at 9.7 feet		-10	50/2"		11
	616.61				
LIMESTONE WITH CHERT AND SHALE SEAMS				742	
Run 1					
11.5' – 19.5' : REC 96/96, 100% RQD 78/96, 81%					
Drill Time: 11.5'-14.5': 3 minutes		-15			
14.5'-19.5': 5.5 minutes					
	608.61				
LIMESTONE		-20			

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
LIMESTONE					
Run 2					
19.5' – 29.5' : REC 114/120, 95% RQD 90/120, 75%					
Drill time: 19.5'-24.5': 6.5 minutes					
24.5'-29.5': 5.5 minutes					
		-25			
Run 3					
29.5' – 37' : REC 90/90, 100% RQD 58/90, 64%					
		-30			
Drill time: 29.5'-34.5': 7 minutes					
34.5'-37': 2 minutes					
		-35			
	591.11				
Bottom of Boring @ 591.11'		-40			

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 10/3/2008

ROUTE FAP 648 (IL40) 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. 618.41 ft
Begin Core Elev. 616.61 ft

BORING NO. B-P6W
Station 732+58
Offset 44 Lt
River Water Surface Elev. 628.11 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
	616.61	-11.5					
DOLOMITE: light gray to white, hard, fine to medium, slightly to non-calcareous, occasional chert; horizontal joints, partially remineralized, generally hard and little to no soil filling. 23 pieces 1'-12" long; generally intact			1	100	81		742
Depth 11.5-14.5 feet took 3 minutes to core		-15				1.0	
Depth 14.5-19.5 feet took 5.5 minutes to core	606.61	-18.5				1.1	
Light gray and gray; 22 pieces 1"-18" long; occasional vugs, some partially filled.		-20	2	95	75		
Depth 19.5-24.5 feet took 6.5 minutes to core		-25				1.3	
Slightly to moderately vesicular below about 28 feet							
Depth 24.5-29.5 feet took 5.5 minutes to core	598.61	-29.5				1.1	
Light gray; 25 pieces 1"-13" long		-30	3	100	64		

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 136 (Rev. 3/01)

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BORING NO. B-P6W
Station 732+58
Offset 44 Lt
River Water Surface Elev. 628.11 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Depth 29.5-34.5 feet took 7 minutes to core		-35				1.4	
Depth 34.5-37 feet took 2 minutes to core	591.11	-37				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 136 (Rev. 3/01)

FILE NAME = 0264B80-sht-borings17.dgn	USER NAME = dwozniarski	DESIGNED - ACB	REVISED -
		CHECKED - JMB	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - RLK	REVISED -
	PLOT DATE = 7/18/2011	CHECKED - ACB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS
STRUCTURE NO. 098-0115
SHEET NO. 99 OF 103 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	1B-2	WHITESIDE	257	202
		CONTRACT NO. 64B80		
	ILLINOIS	FED. AID PROJECT		