Illinois Department of Transportation

SOIL BORING LOG

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Date 10/1/2008

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

SECTION 1B-2 LOCATION NE 1/4 SEC.28 TWP. 21N RNG. 7E PM3

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

BORING NO. P3E DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 728+72
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. 8 feet Water					
		-5			
	620.11				
Very Dense Dark Grey, Fine to Coarse SAND, trace gravel	619.11		WOH 3 50/5"		17
WEATHERED LIMESTONE WITH CHERT SEAMS at 9.25 feet		-10			
Run 1 10.5' – 18' : REC 90/90, 100% RQD 30/90, 33%				701	
Drill time: 10.5'-13': 3 minutes 13'-18': 7 minutes		-15			
	610.11				
LIMESTONE WITH CHERT SEAMS Run 2 18' – 28' : REC 113/120, 94% RQD 76/120, 63%		-20			

SOIL DESCRIPTION (continued)	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
(continued) LIMESTONE WITH CHERT SEAMS					
Drill time: 18'-23': 4.5 minutes 23'-28': 5.5 minutes		-25			
Run 3 28' – 35.5' : REC 86/90, 96% RQD 86/90, 96%					
Drill time: 28'–33': 3.5 minutes 33'-35.5': 2.5 minutes		-30			
		-35			
	592.61				
Bottom of Boring @ 592.61'					

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 (9/06)

Illinois Department of Transportation

ROCK CORE LOG

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Date 10/1/2008

ROUTE FAP 648 (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. 618.86 ft
Begin Core Elev. 617.61 ft

BORING NO. B-P3E
Station 728+72
Offset 36 Rt
River Water Surface Elev. 628.11 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
	617.61 -10.5					
DOLOMITE: yellow brown and gray, hard, fine to medium, slightly to non-calcareous, occasional chert; occasional vugs, some partially filled; horizontal joints, partially remineralized, generally hard and little to no soil filling. More than 50 pieces, 1/4" -8" long		1	100	33		
Depth 10.5-13 feet took 3 minutes to core					1.2	701
Generally gray to light gray below about 13.5 feet.	-15					
½" clay filled joint at 17 feet.						
Depth 13-18 feet took 7 minutes to core	610.11 -18				1.4	
More than 25 pieces, ¼"-12" long; Becoming light gray with depth. Vertical fracture at 19 feet		2	94	63		
Occasional thin clay layer in joints	-20					
Depth 18-23 feet took 4.5 minutes to core					0.9	
	-25					
Yellow brown zone from 27.6-28.3 feet						
Depth 23-28 feet took 5.5 minutes to core	600.11 -28				1.1	
8 pieces, 2"-40" long		3	96	96		
Slightly vesicular, a few vugs	-30					

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

BBS 138 (Rev. 3/01)

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. 618.86 ft
Begin Core Elev. 617.61 ft

BORING NO. B-P3E
Station 728+72
Offset 36 Rt
River Water Surface Elev. 628.11 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Depth 28-33 feet took 3.5 minutes to core					0.7	
Depth 33-35.5 feet took 2.5 minutes to core	592.61 -35				1.0	

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

BBS 138 (Rev. 3/01)

FILE NAME = D264B80-sht-borings10.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	195
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - RLK	REVISED -					CONTRACT NO. 64B80		
	PLOT DATE = 7/18/2011	CHECKED - ACB	REVISED -		SHEET NO. 92 OF 103 SHEETS			ILLINOIS FED. AID PROJECT		