Illinois Department of Transportation

SOIL BORING LOG

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Date 9/29/2008

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

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

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

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

Station 734+84
Offset 39 Rt
Ground Surface Elev. _____ (ft.)

Surface Water Elev. 628.28 (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. 5 feet Water					
	623.28	-5			
Very Soft Dark Brown SANDY CLAY			WOR WOR WOR		
	620.28		WOH		
WEATHERED LIMESTONE at 8 ft			50/2"		11
Run 1 10' – 18' : REC 93/96, 97% RQD 77/96, 80%		-10			
Drill time: 10'-13': 3.25 minutes 13'-18': 4 minutes				638	
		-15			
Run 2 18' – 28' : REC 120/120, 100% RQD 100/100, 83%					
Drill time: 18'-23': 3.5 minutes 23'-28': 3.5 minutes		-20			

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
		-25			
Run 3 28' – 35' : REC 84/84, 100% RQD 44/84, 52%					
		-30			
				466	
	593.28	-35			
Bottom of Boring @ 593.28'					
		-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 9/29/2008

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. 620.28 ft
Begin Core Elev. 618.28 ft

BORING NO. B-ANE
Station 734+84
Offset 39 Rt
River Water Surface Elev. 628.28 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
DOLOMITE: yellow brown to white, 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 25 pieces ½"-13" long; generally intact below 12 feet.		1	97	80		
Depth 10-13 feet took 3.25 minutes to core					1.1	638
	-15					
Depth 13-18 feet took 4 minutes to core	610.28 -18				0.8	
32 pieces ½"-10" long		2	100	83		
Slightly vesicular below about 20 feet.	-20					
Several large open vugs below about 22 feet.						
Depth 18-23 feet took 3.5 minutes to core					0.7	
	-25					
Depth 23-28 feet took 3.5 minutes to core	600.28 -28				0.7	
More than 50 pieces ¼"-16" long; brown, very vesicular and vuggy from 28-30 feet, some fossils; less with depth		3	100	52	NR	
	-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)

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ROCK CORE LOG

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Begin Core Elev. 618.28 ft

BORING NO. B-ANE
Station 734+84
Offset 39 Rt
River Water Surface Elev. 628.28 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Light yellow brown to white below about 33 feet.						466
	593.28 -35					

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 = 0264B80-sht-borings20.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. 102 OF 103 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	1B-2	WHITESIDE	257	205
		CONTRACT NO. 64B80		
	ILLINOIS	FED. AID PROJECT		