Illinois Department of Transportation

ROCK CORE LOG

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Date 07/01/2008

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. 622.65 ft

BORING NO. B-RW1 Begin Core Elev. 623.65 ft

Station 724+23

Offset 45 Lt

Ground Surface Elev. 644.65 ft

DESCRIPTION	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
DOLOMITE: yellow to yellow brown, hard, fine to medium, slightly or non-calcareous; occasionally cherty; occassional vugs, some partially filled; horizontal joints partially remineralized, generally hard, (no soil filling)		1	60	0	1.67	
Vertical joint (open); black colored at 22 feet						
25 rock pieces ranging from ½ - 3 inches in length						
(Piece of metal in core run.)	620.65					
Vertical joint (open, grey brown stained at 26-26.5 feet		2	100	48	0.9	
Greater than 50 rock pieces ranging from ½ - 7 inches in length	-25					
Multiple joints and broken at 28.5-28 feet, slightly vesicular						878
	-30					
	610.65					
Less jointing below about 34.5 feet		3	100	80	1.0	
11 rock pieces ranging from ½ - 20 inches in length	-35					676
White below 36 feet						
	605.65					
	-40					

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)

Illinois Department of Transportation

SOIL BORING LOG

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Date 07/02/08

ROUTE FAP 648 (IL-40) DESCRIPTION IL-40 over the Rock River LOGGED BY CJ

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

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

BORING NO. RW2 DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 723+97

Offset 45 Lt

Ground Surface Elev. 646.39 (ft.)

Surface Water Elev. (ft.)

Groundwater Elev.

First Encounter 19 (ft.)

Upon Completion 19 (ft.)

After Hrs. (ft.)

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Approx. 3" Asphaltic Concrete					
Approx. 9" Roadstone	645.39				
Dark Brown, Fine to Coarse SAND (fill),			6		
			5		26
	643.39		4		
Orange, Dark Brown, and Brown SILTY CLAY (fill), trace sand slight petroleum odor at 4.5'			5		
			4		19
	641.39	-5	4		
Light Brown, Fine to Medium SAND (fill)			4		
			4		7
			3		
			1		
			2		9
		-10	2		
			1		
			1		9
	633.39		3		
Brown, Fine to Coarse SAND, trace to with gravel (fill)			3		
			5		8
		-15	14		
			13		
			21		6
			28		
	626.89		21		
Hard, Brown, LEAN CLAY		-20	11	4.8	18
			12		

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Hard, Grey	625.89		50/4"	4.7	17
LEAN CLAY, trace gravel					
Yellowish Brown					
LIMESTONE					
Run 1					
21' – 31' : REC 120/120, 100%					
Drill time: 8 minutes					
		-25			
				809	
		-30			
Run 2					
31' – 36' : REC 60/60, 100%					
Drill time: 5 minutes					
		-35			
	610.39				
Bottom of Boring @ 610.39'		-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

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Date 07/02/2008

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. 625.89 ft

BORING NO. B-RW2 Begin Core Elev. 625.39 ft

Station 723+97

Offset 45 Lt

Ground Surface Elev. 646.39 ft

DESCRIPTION	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
DOLOMITE: yellow to yellow brown, hard, fine to medium, slightly to non-calcareous; occasional vugs, some calcite filled; occasional chert; horizontal joints, partially remineralized, usually hard (no soil). Slightly vesicular, less with depth		1	100	40	0.8	
Vertical joint at about 22.5 – 23 feet, open						
Upper 2 feet more weak and broken, some soil in joints						
Greater than 50 rock pieces ranging from ½ -5 inches in length	-25					
Small vertical joint at about 28 – 28.3 feet, open, brown stain						809
	-30					
	615.39					
22 rock pieces ranging from ½ - 8 inches in length		2	100	88	1.0	
	-35					
	610.39					

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 = D264B80-sht-borings04.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	189
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - RLK	REVISED -					CONTRACT NO. 64B80		
	PLOT DATE = 7/18/2011	CHECKED - ACB	REVISED -		SHEET NO. 86 OF 103 SHEETS		ILLINOIS	FED. AID PROJECT		