



# SOIL BORING LOG

Page 1 of 1  
Date 9/30/2008

ROUTE FA 646 (IL-40) DESCRIPTION L-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. P5E DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 731+21  
Offset 38 Rt  
Ground Surface Elev. (ft.)

SOIL DESCRIPTION (ft.)	DEPTH (ft.)	SPT (blows)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION (ft.)	DEPTH (ft.)	SPT (blows)	UCS (tsf)	MOISTURE (%)
Approx. 9.5 feet Water					(continued) LIMESTONE				
					Run 3 23.5' - 33.5' : REC 112/120, 93% RQD 98/120, 90%				
					Drill Time: 23.5'-28.5': 5 minutes 28.5'-33.5': 5 minutes				
	618.56								
Very Dense Light Brown and Grey SILT. trace sand and gravel	618.06	28	44	13					
WEATHERED LIMESTONE at 10 ft					Run 4 33.5' - 36' : REC 30/30, 100% RQD 30/30, 100%				
Run 1 10.5' - 15.5' : REC 48/60, 80% RQD 8/60, 13%					Drill Time: 2.5 minutes				
Drill time: 10.5'-13': 2.5 minutes 13'-15.5': 3 minutes									
LIMESTONE	612.56				Bottom of Boring @ 592.06'				
Run 2 15.5' - 23.5' : REC 96/96, 100% RQD 86/96, 90%									
Drill time: 15.5'-18': 2.5 minutes 18'-23.5': 6 minutes									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator).  
The Standard Penetration Test (SPT) N Value is per (AASHTO T205)

BBS 137 (9/05)



# ROCK CORE LOG

Page 1 of 2  
Date 9/30/2008

ROUTE FAP 646 (IL-40) DESCRIPTION ILLINOIS 40 OVER ROCK RIVER LOGGED BY G. Jamison  
SECTION 1B-2 LOCATION NE 1/4 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 1.78 in  
Top of Rock Elev. 618.06 ft  
Begin Core Elev. 617.56 ft  
BORING NO. B-P5E  
Station 731+21  
Offset 38 Rt  
River Water Surface Elev. 628.06 ft

DEPTH (ft)	CORE TYPE	RECOVERY (%)	QUALITY (%)	STRENGTH (min/ft)	REMARKS
617.56		100	13		DOLOMITE: yellow brown to brown, hard, fine to medium, slightly to non-siliceous, occasional chert, occasional vugs, some partially filled; horizontal joints, partially mineralized, generally hard and little to no soil filling. More than 50 pieces 1/4"-6" long. Depth 10.5-13 feet took 2.5 minutes to core. Gray at about 14 feet; less intact and broken.
612.56		100	90		Depth 13-15.5 feet took 3 minutes to core. Gray to light gray, generally intact. 25 pieces 1"-16" long.
					Depth 15.5-18 feet took 2.5 minutes to core
604.56		93	82		Depth 18-23.5 feet took 6 minutes to core. Light gray, vesicular, a few vugs. 18 pieces 3"-16" long.
					Vertical fracture 25.7-26 feet.
					Depth 23.5-28.5 feet took 5 minutes to core

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)



# ROCK CORE LOG

Page 2 of 2  
Date 9/30/2008

ROUTE FAP 646 (IL-40) DESCRIPTION ILLINOIS 40 OVER ROCK RIVER LOGGED BY G. Jamison  
SECTION 1B-2 LOCATION NE 1/4 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 1.78 in  
Top of Rock Elev. 618.06 ft  
Begin Core Elev. 617.56 ft  
BORING NO. B-P5E  
Station 731+21  
Offset 38 Rt  
River Water Surface Elev. 628.06 ft

DEPTH (ft)	CORE TYPE	RECOVERY (%)	QUALITY (%)	STRENGTH (min/ft)	REMARKS
594.56		100	100		Depth 28.5-33.5 took 5 minutes to core. 6 pieces 4"-7" long; more yellow brown with depth
592.06					Depth 33.5-36 feet took 2.5 minutes to core

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 = D264980-sht-borings14.dgn

USER NAME = dwoznarski  
PLOT SCALE = 1:2000 / IN.  
PLOT DATE = 7/18/2011

DESIGNED - ACB  
CHECKED - JMB  
DRAWN - RLK  
CHECKED - ACB

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING AND ROCK CORE LOGS  
STRUCTURE NO. 098-0115

SHEET NO. 96 OF 103 SHEETS

F.A.P. RTE. 646 SECTION 1B-2 COUNTY WHITESIDE TOTAL SHEETS 257 SHEET NO. 199 CONTRACT NO. 64B80 ILLINOIS FED. AID PROJECT