



SOIL BORING LOG

ROUTE FA 646 (IL 40) DESCRIPTION IL-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 (Exst.)

BORING NO. B6E DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT Hammer

Station 732+58
Offset 38 Rt
Ground Surface Elev. (ft.)

Surface Water Elev. 628.06 (ft.)
Groundwater Elev. (ft.)
First Encounter Upon Completion (ft.)
After Hrs. (ft.)

SOIL DESCRIPTION (ft.) (blows) (tsf) (%) SOIL DESCRIPTION (ft.) (blows) (tsf) (%)

Approx. 9.2 feet Water (Continued) WEATHERED LIMESTONE

Void from 21' to 22'

Void from 24' to 27'

Run 3
28' - 35' : REC 60/84, 71%
RQD 36/84, 43%

Drill time: 28'-33': 2.5 minutes
33'-35': 3 minutes

WEATHERED LIMESTONE at 9.2 feet
Run 1
10' - 18' : REC 98/96, 100%
RQD 52/96, 54%

Drill Time: 10'-13': 3 minutes
13'-18': 5.5 minutes

Bottom of Boring @ 593.06'

Run 2
18' - 28' : REC 48/120, 40%
RQD 36/120, 30%

Drill time: 18'-23': 2 minutes
23'-28': 2 minutes

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 T208)



ROCK CORE LOG

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. 618.86 ft

Begin Core Elev. 618.06 ft

BORING NO. B-P6E Station 732+58

Offset 38 Rt River Water Surface Elev. 628.06 ft

DOLOMITE: yellow brown to gray, hard, fine to medium, slightly to non-calcareous, occasional chert, occasional vugs, some partially filled; horizontal joints, partially ramified, generally hard and little to no soil filling. 37 pieces 1/2"-1 1/4" long, slightly vesicular

Depth 10-13 feet took 3 minutes to core

Depth 13-18 feet took 5.5 minutes to core

Light gray to yellow brown from 18-21 feet; 9 pieces 1/2"-1 1/4" long.

Void - 21 to 22 feet, per driller. No soil material present in recovered core.

Depth 18-23 feet took 2 minutes to core

Yellow brown and gray, intact from 22-24 feet; 2 pieces 10"-11" long.

Void - 24 to 27 feet (Driller described as a "very soft" filled void.) No soil material present in recovered core.

27-28 feet - broken but hard; 5 pieces 1"-3" long.

Depth 23-28 feet took 2 minutes to core

Yellow brown to light yellow brown, vesicular, vuggy with enclosed chert fragments, 25 pieces 1/2"-9" long.

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)



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Top of Rock Elev. 618.86 ft

Begin Core Elev. 618.06 ft

BORING NO. B-P6E Station 732+58

Offset 38 Rt River Water Surface Elev. 628.06 ft

Depth 28-33 feet took 2.5 minutes to core

Depth 33-35 feet took 3 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)