



SOIL BORING LOG

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Date 5/7/07

ROUTE FAI 57/70 DESCRIPTION I-57/70 over US 45 LOGGED BY E. Sandschafer

SECTION (25-4.3)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. (EX) 025-0013/0014
Station 2294+12.22

BORING NO. 4
Station 2295+49
Offset 0.00ft
Ground Surface Elev. 626.12 ft

DEPTH (ft) (6") (tsf) (%)

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 546.6 ft
Upon Completion Washed ft
After 24 Hrs. 610.4 ft

DEPTH (ft) (6") (tsf) (%)

Very dense, wet, brown, gravelly SAND.

50/1" (6") (tsf) (%)

Stiff, damp, gray, CLAY LOAM TILL. (continued)

6 9 1.9 B 16

No recovery this trip, possible rock ahead of sampler. (continued)

22 31 40

Very stiff, damp, gray, CLAY TILL.

4 6 9 2.3 B 18

Latitude W 88 deg 49' 32.02" min., Longitude N 39 deg 08' 07.07" min., Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



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COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. (EX) 025-0013/0014
Station 2294+12.22

BORING NO. 4
Station 2295+49
Offset 0.00ft
Ground Surface Elev. 626.12 ft

DEPTH (ft) (6") (tsf) (%)

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 546.6 ft
Upon Completion Washed ft
After 24 Hrs. 610.4 ft

Hard, damp, gray, CLAY LOAM TILL. (continued)

27 29 5.5 B 10

Stiff, damp, blue, SANDY LOAM.

23 24 15 1.5 S 17

Very dense, moist, gray, estimated LIMESTONE. Low recovery.

50/1" 50/1" 50/1"

Latitude W 88 deg 49' 32.02" min., Longitude N 39 deg 08' 07.07" min., Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



ROCK CORE LOG

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Date 5/7/07

ROUTE FAI 57/70 DESCRIPTION I-57/70 over US 45 LOGGED BY E. Sandschafer

SECTION (25-4.3)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham CORING METHOD Rotary surface set diamond bit

STRUCT. NO. (EX) 025-0013/0014
Station 2294+12.22

BORING NO. 4
Station 2295+49
Offset 0.00ft
Ground Surface Elev. 626.12 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 492.22 ft
Begin Core Elev. 492.02 ft

DEPTH (ft) (#) (%) (%) (min/ft) (tsf)

Gray, SANDSTONE. Rock core B4A depth 134.10' to 134.50' Qu = 325 tsf

492.02 B4-1 100 84 1

Gray, LIMESTONE.

489.62

Gray, SANDSTONE.

488.52

Gray, LIMESTONE.

487.52

Gray, SANDSTONE w/ Limestone pockets.

B4-2 100 100 0.8

Rock core B4B depth 140.66' to 141.13' Qu = 343 tsf

483.62

Gray, moderately weathered, SANDY LOAM SHALE.

481.82

Extent of exploration.

-145

Benchmarks:

BM 44 Brass disk on SW corner of existing SB/WB structure 025-00140, Station 2291+65, 7.2' Lt = 628.87' elevation.

BM 45 Brass Disk on NE corner of existing NB/EB structure 025-0013, Station 2295+26, 7.2' Lt = 628.57' elevation.

BM "LIN 14" Chiseled square in concrete median on US 45 Station 48+55, centerline = 592.07' elevation.

-150

Color pictures of the cores Available on request
Cores will be stored for examination until 05/07/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

S:\Projects\403\0002_5770\Bridges\Bridges 025-8648 Y shaped culvert under US 45\DWG\Final\Design CAD Drawings\0258648-74295-012 Borings 04.dwg

FILE NAME = 0258648-74295-012 Borings 04.dwg
DESIGNED - ACS
CHECKED - BB
DRAWN - WJS
CHECKED - CJF
PLOT DATE = 2:54:59 PM 5/1/2013

DESIGNED - ACS
CHECKED - BB
DRAWN - WJS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 025-8648

SHEET NO. 12 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4HVB-1)BY	EFFINGHAM	1760	531
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	