

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 3 of 4
Date 9/24/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RING. 5 E, 3 PM

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

STRUCT. NO. 025-00090010 D B U M
Station 2003+70 P L C O
T W S I
H S Qu T

BORING NO. 2 Surface Water Elev. 499.46 ft
Station 2002+50 Stream Bed Elev. 496.46 ft
Offset 72.00ft Rt Groundwater Elev.:
First Encounter _____ ft
Upon Completion 499.0 ft
Ground Surface Elev. 511.49 ft After 96 Hrs. 499.7 ft

Stiff, damp, brown, SILTY LOAM
With organics. (continued)

Very dense, moist, gray,
SANDSTONE.
Borehole continued with rock
coring.

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG Page 4 of 4
Date 9/24/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RING. 5 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-00090010 CORING BARREL TYPE & SIZE NW, conv dbi bbl, split inner
Station 2003+70 Core Diameter 2.06 in
BORING NO. 2 Top of Rock Elev. 498.99 ft
Station 2002+50 Begin Core Elev. 498.79 ft
Offset 72.00ft Rt Ground Surface Elev. 511.49 ft

Gray, slightly weathered, SANDSTONE, scratches easily. 498.79 -58 94 58 0.6

Gray, slightly weathered, SANDY CLAY SHALE. 498.69

Rock core sample E2C1 from 87.2' to 87.7' depth = 21.8 tef Qu. 498.59

Gray, hard, SANDSTONE, does not scratch easily. 498.49

Gray, slightly weathered, SANDY CLAY SHALE. 498.39 -59 100 94 0.8

Gray, slightly weathered, SANDSTONE, scratches easily. 498.29

Rock core sample E2C2 from 90.8' to 91.4' depth = 185.3 tef Qu. 498.09

Gray, slightly weathered, SANDY CLAY SHALE. 497.99

Gray, slightly weathered, SANDSTONE, scratches easily. 497.89

Gray, slightly weathered, SILTY CLAY SHALE. 497.79

Extent of exploration. 496.79 -60

Benchmark: BM 551 Chiseled Square on top of slopewall in median, on East side of Little Wabash River, Station 2005+75 LA 25.7' = 521.53' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 9/24/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-3938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 1 of 4
Date 9/21/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RING. 5 E, 3 PM

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

STRUCT. NO. 025-00090010 D B U M
Station 2003+70 P L C O
T W S I
H S Qu T

BORING NO. 3 Surface Water Elev. 499.46 ft
Station 2002+75 Stream Bed Elev. 496.46 ft
Offset 73.00ft Lt Groundwater Elev.:
First Encounter 501.4 ft
Upon Completion 503.8 ft
Ground Surface Elev. 510.41 ft After 72 Hrs. 503.9 ft

Riprap and Sandy Loam. 498.79 -58 11 5.0 10

Hard, very moist, dark brown, SILTY CLAY. 500.91 -5 4 6 1.6 14

Very soft, very moist, brown, SANDY LOAM. 503.11 4 4 0.1 9

Loose, wet, brown to gray, fine grained, SAND, 5% passing #200 sieve. 502.41 3 S 9

Medium to stiff, damp, gray, CLAY LOAM TILL. 489.91 2 4 1.0 8

Very stiff, damp, gray, CLAY LOAM TILL. 492.41 8 2.8 10

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, form 137 (Rev. 8-99)

| |
|----------------------------------|
| DESIGNED |
| CHECKED |
| DRAWN <u>W.J.S.</u> |
| CHECKED <u>C.J.F. & B.B.</u> |

BORING LOGS
S.N. 025-0107 & 025-0108



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4665
Fax 618-288-4666

| | | | | | |
|--|------------------------|--------------------|---------------------|----------------------|-----------------|
| SHEET NO. 53 58 SHEETS | F.A.I. RTE. 70 | SECTION (25-3)B | COUNTY EFFINGHAM | TOTAL SHEETS 1416 | SHEET NO. 85 |
| | SN 025-0107 & 025-0108 | | CONTRACT NO. 74296 | | |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70 | | | | | |

2/16/02 PM 3/19/2010 10:25:07 94991.053.dgn