STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**Illinois Department of Transportation**
Division of Highways
Illinois Department of Transportation

# SOIL BORING LOG

Page 1 of 4

Date 7/10/08

ROUTE FAP 752 (IL 185) DESCRIPTION Camp Creek LOGGED BY E. Sandschafer

SECTION (U-2BR1)B-1 LOCATION E 1/2, SEC. 15, TWP. 6 N, RNG. 1 E, 3 PM

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

STRUCT. NO. 026-0059
Station 51+53

BORING NO. 2008 - 1
Station 54+08
Offset 9.00ft Lt
Ground Surface Elev. 477.84 ft

Surface Water Elev. 462.47 ft
Stream Bed Elev. 461.43 ft

Groundwater Elev.:
First Encounter 450.8 ft
Upon Completion 465.3 ft
After 48 Hrs. 466.4 ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| 9" asphalt on 9" concrete pavement | 477.84 | | | | |
| | 476.34 | | | | |
| Medium, damp, gray mottled red, CLAY. | | | 2 | | |
| | | | 2 | 0.9 | 23 |
| | | | 2 | B | |
| | 473.34 | | | | |
| Very stiff to stiff, damp, gray & red, CLAY. | | -5 | 2 | | |
| | | | 3 | 3.0 | 19 |
| | | | 3 | PP | |
| | | | 3 | | |
| | | | 3 | 1.7 | 19 |
| | | | 5 | B | |
| | | -10 | 2 | | |
| | | | 4 | 2.4 | 22 |
| | | | 4 | B | |
| | | | 3 | | |
| | | | 3 | 1.4 | 21 |
| | | | 5 | B | |
| | | -15 | 2 | | |
| | | | 3 | 1.2 | 21 |
| | | | 4 | B | |
| | | | 2 | | |
| | | | 3 | 1.5 | 21 |
| | | | 4 | B | |
| | | -20 | 2 | | |
| Very stiff to stiff, damp, gray & red, CLAY. *(continued)* | | | 3 | 1.3 | 24 |
| | | | 3 | B | |
| | | | 2 | | |
| | | | 3 | 1.4 | 22 |
| | | | 3 | B | |
| | 452.64 | -25 | 0 | | |
| Soft, very damp, red & gray layered, SILTY LOAM. | | | 1 | 0.4 | 26 |
| | | | 1 | B | |
| | 450.84 | | | | |
| Loose, wet, gray, fine grained, SAND w/ some Sandstone fragments and small gravel. | | | 5 | | |
| | | | 2 | | |
| | | | 7 | | |
| | | -30 | 6 | | |
| *No recovery this trip.* | | | 8 | | |
| | | | 10 | | |
| | | | 5 | | |
| | | -35 | 10 | | |
| | | | 8 | | |
| | 437.84 | -40 | 3 | | |

Latitude W 89 deg 04.179 min, Longitude N 38 deg 57.703 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)

**Illinois Department of Transportation**
Division of Highways
Illinois Department of Transportation

# SOIL BORING LOG

Page 2 of 4

Date 7/10/08

ROUTE FAP 752 (IL 185) DESCRIPTION Camp Creek LOGGED BY E. Sandschafer

SECTION (U-2BR1)B-1 LOCATION E 1/2, SEC. 15, TWP. 6 N, RNG. 1 E, 3 PM

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

STRUCT. NO. 026-0059
Station 51+53

BORING NO. 2008 - 1
Station 54+08
Offset 9.00ft Lt
Ground Surface Elev. 477.84 ft

Surface Water Elev. 462.47 ft
Stream Bed Elev. 461.43 ft

Groundwater Elev.:
First Encounter 450.8 ft
Upon Completion 465.3 ft
After 48 Hrs. 466.4 ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Loose, wet, gray, fine grained, SAND w/ some Sandstone fragments and small gravel. | | | 6 | | |
| | | | 9 | | |
| | 433.34 | | | | |
| Very stiff, damp, gray, CLAY TILL. | | -45 | 3 | | |
| | | | 6 | 3.2 | 12 |
| | | | 10 | B | |
| | | -50 | 4 | | |
| | | | 7 | 3.2 | 14 |
| | | | 11 | B | |
| | | -55 | | | |
| | | -60 | 8 | | |
| Very stiff, damp, gray, CLAY TILL. *(continued)* | | | 15 | 3.3 | 15 |
| | | | 21 | B | |
| | | -65 | | | |
| | | -70 | 6 | | |
| | | | 10 | 3.3 | 16 |
| | | | 15 | B | |
| | | -75 | | | |
| | 398.34 | -80 | 10 | | |

Latitude W 89 deg 04.179 min, Longitude N 38 deg 57.703 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)

Notes:
1. Boring No. 2008-1 continued on next sheet.

## BORING LOGS
## STRUCTURE NO. 026-0105

| SHEET NO. 31 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 38 SHEETS | 752 | (U-2BR1)B-1 | FAYETTE | 71 | 53 |
| | | | CONTRACT NO. 74235 | | |
| | FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT | | |

OATES ASSOCIATES
Consulting Engineers

Eastport Business Center 1
100 Lanter Court, Suite 1
Collinsville, Illinois 62234
618-345-2200
Design Firm License No. 184.001115

DESIGNED -
CHECKED -
DRAWN -
CHECKED -