STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 6

# SOIL BORING LOG

Page 1 of 1
Date 11/14/07

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY M. Tuppen

SECTION 144 (B-1) LOCATION SE 14, SEC. 30, TWP. 19N, RNG. 9W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. _____
Station _____

BORING NO. 935
Station 935+92
Offset 15.05 RT
Ground Surface Elev. 428.9 ft

Surface Water Elev. N/A
Stream Bed Elev. N/A

Groundwater Elev.:
▽ First Encounter 445.8
▽ Upon Completion Washed
▽ After Hrs. Flooded
Boring Complete

| Description | Elev. | Depth (ft) | Blows /6" | UCS Qu (tsf) | Moist (%) |
|---|---|---|---|---|---|
| V. Dark Gray Moist SILTY CLAY | | | 2 | | |
| | | | 3 | 1.5 | 36 |
| | | | 6 | B | |
| V. Dark Gray to Brown and Gray Moist SILTY CLAY | | | 1 | | |
| | | | 2 | 0.7 | 21 |
| | | 5 | 3 | B | |
| Tan Moist Fine to Med SAND | 447.40 | | | | |
| | | | 1 | | |
| | | | 3 | | |
| | | | 3 | | |
| Brown Wet Med SAND ▽ Free Water | | | 3 | | |
| | | | 6 | | |
| | | 10 | 6 | | |
| Fine SAND | | | 1 | | |
| | | | 1 | | |
| | | | 1 | | |
| Gray Med SAND | | | 0 | | |
| | | | 0 | | |
| | | 20 | 1 | | |
| Washed | | | 1 | | |
| | | | 2 | | |
| | | | 4 | | |
| Gray Coarse SAND Washed | | | 1 | | |
| | | | 2 | | |
| | 428.90 | 30 | 2 | | |

| Description | Elev. | Depth (ft) | Blows /6" | UCS Qu (tsf) | Moist (%) |
|---|---|---|---|---|---|
| | | 25 | | | |
| | | 30 | | | |
| | | 35 | | | |
| | | 40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H. – Sampler Advanced By Weight of Hammer, W.O.P. – Advanced by Weight of Pipe, B.S. – Before Seating
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
District 6

# SOIL BORING LOG

Page 1 of 1
Date 12/4/03

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY M. Tuppen

SECTION 144 (B-1) LOCATION SE 14, SEC. 30, TWP. 19N, RNG. 9W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 009-0000 (Rt)
009-2509 (Pr)
Station 935+35

BORING NO. SB149
Station SB1+49
Offset 50.00 LT
Ground Surface Elev. 447.6 ft

Surface Water Elev. No Data
Stream Bed Elev. No Data

Groundwater Elev.:
▽ First Encounter 440.0
▽ Upon Completion Washed
▽ After Hrs. Flooded

| Description | Elev. | Depth (ft) | Blows /6" | UCS Qu (tsf) | Moist (%) |
|---|---|---|---|---|---|
| V. Dark Gray Moist SILTY CLAY Rock in Sample, Poor Recovery | | | 5 | | |
| | | | 6 | | 28 |
| | | | 5 | | |
| Dark Gray | | | 5 | | |
| | | 5 | 5 | 1.1 | 25 |
| | | | 5 | B | |
| Gray Med SAND ▽ Free Water | 440.60 | | 1 | | |
| | | | 5 | | |
| | | | 5 | | |
| w/Few Gravel Washed | | | 1 | | |
| | | 10 | 1 | | |
| | | | 1 | | |
| | | | 1 | | |
| | | | 1 | | |
| | | | 0 | | |
| Gray Med to Coarse SANDY GRAVEL | | | 5 | | |
| | | 15 | 5 | | |
| | | | 5 | | |
| | | | 3 | | |
| | | | 5 | | |
| | | | 1 | | |
| | | 20 | 4 | | |
| | | | 5 | | |
| Boring Complete | 427.10 | | | 2 | |

| Description | Elev. | Depth (ft) | Blows /6" | UCS Qu (tsf) | Moist (%) |
|---|---|---|---|---|---|
| | | 25 | | | |
| | | 30 | | | |
| | | 35 | | | |
| | | 40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H. – Sampler Advanced By Weight of Hammer, W.O.P. – Advanced by Weight of Pipe, B.S. – Before Seating
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)

BORINGS (Sheet 1 of 3)
F.A.P. 614 (IL 78) OVER
SANGAMON RIVER OVERFLOW
SECTION 144 (B-1)
CASS COUNTY
STA. 935+35.00
STRUCTURE NUMBER 009-2509

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

SHEET NO. 2
4 SHEETS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 614 | 144(B-1) | Cass | 351 | 224 |
| | | CONTRACT NO. 72A76 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

| | | |
|---|---|---|
| LAYOUT | Rod | 02-26-09 |
| DRAWN | Rod | 02-26-09 |
| REVIEWED | TEH | 02-26-09 |

Mar-31-2009 08:05:31 AM
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