STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

# SOIL BORING LOG

Page 1 of 2

Date 6/27/05

ROUTE FAI-80 FAS 1259 Brisbin Road DESCRIPTION Brisbin Rd over I-80 LOGGED BY LM-IDOT

SECTION (32,47-4)HBK-4 LOCATION SW 1/4, SEC. 18, TWP. 34 N, RNG. 8 E, 3rd PM

COUNTY Grundy DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 032-0058
Station 30+83.23

BORING NO. #1, SE Quad
Station 29+37.23
Offset 5.00ft Rt
Ground Surface Elev. 565.98 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Augured, bituminous, brown, Silty Clay Loam Till- fill | | | | | |
| | 563.48 | | | | |
| Hard, alternating, gray brown, Silty Clay Loam to Sandy Clay Loam Till- fill | | | 5 | | |
| | | | 6 7 | 4.5 P | 11.1 |
| | | -5 | 6 | | |
| | | | 7 8 | >4.5 P | 10.2 |
| | | | 5 | | |
| | | | 8 11 | >4.5 P | 13.0 |
| | | -10 | 4 | | |
| | | | 6 8 | 4.5 P | 13.2 |
| | | | 3 | | |
| | | | 4 5 | 4.0 P | 11.0 |
| | | -15 | 3 | | |
| | | | 8 9 | >4.5 P | 10.5 |
| | | | 5 | | |
| | | | 10 4 | >4.5 P | 10.7 |
| | 546.48 | -20 | | | |
| Very stiff, black to dark gray, Silty Clay- Loess *(continued)* | | | 3 | | |
| | | | 6 7 | 3.1 S | 22.3 |
| | 543.98 | | | | |
| Medium, brown gray, Silty Clay to Silty Loam- Loess | | | 2 | | |
| | | | 2 3 | 0.9 B | 19.3 |
| | 541.48 | | | | |
| Stiff, brown, Clay Till | | -25 | 3 | | |
| | | | 4 5 | 1.8 S | 12.0 |
| | 538.98 | | | | |
| Very stiff, brown, Loam to Clay Till | | | 5 | | |
| Boulder, large cobble obstruction @ 29' could not move. Offset hole 7.5' south and drilled down to 30' and resumed | | | 10 18 | 2.3 S | 8.6 |
| | 536.48 | | | | |
| Hard, gray, brittle, Silty Clay Loam Till with layers of Silty Clay & Silty Loam @ 40' | | -30 | 21 | | |
| | | | 31 61 | >4.5 P | 6.5 |
| | | | 36 | | |
| | | | 36 46 | >4.5 P | 7.8 |
| | | -35 | 20 | | |
| | | | 50 60 | 6.0 S | 5.9 |
| | | | 30 | | |
| | | | 40 31 | >4.5 P | 7.7 |
| | | -40 | | | |

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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|---|---|---|---|---|---|
| Hard, gray, brittle, Silty Clay Loam Till with layers of Silty Clay & Silty Loam @ 40' *(continued)* | | | 10 | | |
| | | | 50 62 | 7.6 S | 8.2 |
| | 522.98 | | 55 | | |
| Hard, white, Limestone- Bedrock Ordovician System Galena-Platteville Member | 522.48 | | 100/1 | >4.5 P | 3.0 |
| End of Boring | | -45 | | | |
| | | -50 | | | |
| | | -55 | | | |
| | | -60 | | | |

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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| | |
|---|---|
| DESIGNED | - CMM |
| CHECKED | - MWM |
| DRAWN | - GJS |
| CHECKED | - MWM |

*SOIL BORING LOGS*
*SOIL BORING B-1*
*STRUCTURE NO. 032-0115*

LOCHNER
H.W. LOCHNER, INC.
CONSULTING ENGINEERS & PLANNERS
20 NORTH WACKER DRIVE SUITE 1200
CHICAGO, IL 60606

SHEET NO. 30 OF 31 SHEETS

| RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| * | (32, 47-4) HBK-4 & (G)N | GRUNDY | 351 | 312 |
| | | CONTRACT NO. 66408 | | |
| FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | | |

* FAI 80 & FAS 297 / FAU 392