Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

# SOIL BORING LOG

Page 1 of 1

Date 4/29/13

ROUTE FAI 39 DESCRIPTION P92-ST7 Sign Truss, I-39 SB, .3 m. N. of I-88 LOGGED BY W. Garza

SECTION 161-1-1SG 81-1SG-1 LOCATION Dement Twp. - 29SE, SEC. , TWP. 40N, RNG. 2E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 039
Station 1428+00

BORING NO. B-1
Station 1427+75
Offset 114.00ft Lt CL
Ground Surface Elev. 805.6 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 786.1 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Long. - 89.023308<br>Lat. 41.910403<br>VERY SOFT light brown LOAM | 803.60 | | | 0.2 P | 13 |
| DENSE light gray SANDY LOAM | 802.10 | | 13<br>15<br>17 | | 9 |
| HARD dark gray CLAY LOAM | 799.60 | -5 | 9<br>9<br>14 | 5.8 B | 23 |
| VERY STIFF light gray SILT with SAND lens | 796.60 | | 9<br>16<br>25 | 2.5 P | 15 |
| MEDIUM gray moist fine SAND | 794.10 | -10 | 11<br>6<br>8 | | |
| VERY STIFF gray SANDY LOAM | 792.10 | | 8<br>8<br>12 | 3.1 P | 14 |
| VERY STIFF gray SILTY CLAY LOAM | 789.10 | -15 | 3<br>5<br>6 | 2.5 B | 23 |
| MEDIUM light gray SANDY GRAVEL | 787.10 | | 6<br>8<br>19 | | |
| ▼ | | -20 | 8 | | |
| DENSE light gray clean medium coarse SAND *(continued)* | 784.60 | | 15<br>20 | | |
| MEDIUM light gray fine SAND | 782.10 | | 6<br>10<br>11 | | |
| MEDIUM light gray fine SAND | 779.60 | -25 | 6<br>11<br>12 | | |
| Wash<br>VERY STIFF light gray SILTY CLAY | 776.60<br>774.10 | -30 | 5<br>5<br>10 | 2.1 P | 18 |
| MEDIUM light gray fine SAND | 772.10 | | 2<br>10<br>14 | | |
| DENSE light gray fine SAND | 769.60 | -35 | 9<br>14<br>19 | | |
| End of Boring | | -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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Date 4/29/13

ROUTE FAI 39 DESCRIPTION P92-ST7 Sign Truss, I-39 SB, .3 m. N. of I-88 LOGGED BY W. Garza

SECTION 161-1-1SG 81-1SG-1 LOCATION Dement Twp. - 29SE, SEC. , TWP. 40N, RNG. 2E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 039
Station 1428+00

BORING NO. B-2
Station 1427+83
Offset 10.00ft Lt CL
Ground Surface Elev. 804.5 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 787.5 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Long. - 89.022705<br>Lat. 41.910611<br>MEDIUM brown SILTY CLAY LOAM | 802.50 | | | 0.5 P | 25 |
| VERY DENSE light gray fine SAND with SILT lens | 800.50 | | 18<br>20<br>34 | | 14 |
| DENSE light gray SAND | 798.50 | -5 | 15<br>18<br>25 | | |
| MEDIUM light gray moist SAND | 795.50 | | 13<br>5<br>6 | | |
| VERY STIFF dark gray LOAM with GRAVEL | 793.50 | -10 | 4<br>6<br>11 | 2.0 S | 14 |
| STIFF gray SILTY CLAY LOAM | 791.00 | | 4<br>4<br>8 | 1.6 B | |
| DENSE tan SANDY GRAVEL | 788.00 | -15 | 10<br>13<br>18 | | 25 |
| ▼ DENSE tan SANDY GRAVEL | 786.00 | | 14<br>16<br>19 | | |
| MEDIUM light gray fine SAND | | -20 | 5 | | |
| MEDIUM light gray fine SAND *(continued)* | 783.50 | | 7<br>8 | | |
| MEDIUM light gray fine SAND | 780.50 | | 2<br>8<br>10 | | |
| Wash<br>MEDIUM light gray SILT with fine SAND lens | 778.50 | -25 | 5<br>7<br>8 | 0.6 P | 21 |
| STIFF light gray SILT | 776.00 | | 4<br>4<br>4 | 1.4 P | 22 |
| VERY STIFF light gray SILT | 773.50 | -30 | 11<br>8<br>6 | 2.1 S | 19 |
| VERY SOFT light gray SILT | 770.50 | | 4<br>4<br>5 | 0.3 P | 19 |
| LOOSE light gray fine SAND | 768.50 | -35 | 1<br>2<br>2 | | |
| End of Boring | | -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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| | | | |
|---|---|---|---|
| USER NAME = jattanasco | DESIGNED - NG | REVISED - | |
| | CHECKED - BWS | REVISED - | |
| PLOT SCALE = 0:2.0000 ':' / in. | DRAWN - RD | REVISED - | |
| PLOT DATE = 1/31/2014 | CHECKED - BWS | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
BORING LOG - 4

SHEET NO. S-26 OF S-26 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| VAR. | • | •• | 45 | 45 |
| • D-2 OVD SIN STR REPL 14-27 | | CONTRACT NO. 46288 | | |
| | | ILLINOIS FED. AID PROJECT | | |

•• WINNEBAGO & OGLE