| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 533 | 119R-1-B | McHenry | 77 | 44 |
| FED. ROAD DIST. XXXX | ILLINOIS | FED. AID PROJECT- | | |

SHEET NO. 22 OF 27 SHEETS

Contract #62340


Geo Services, Inc.
Geotechnical, Environmental and Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-9186


# SOIL BORING LOG

PAGE 1 of 2
DATE June 21, 2002
LOGGED BY JR
GSI JOB No. 0209

ROUTE FAP Rte. 533
DESCRIPTION Illinois Route 176 over the S. Branch of the Kishwaukee River
TWNSHP Seneca
LOCATION TWP 44 N, R 6E on the south boundary of Sec 28
COUNTY McHenry
DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 056-0071
Station 51+50
BORING NO. SB-1
Station 49+42
Offset 12' Right (South)
Ground Surface Elev. 818.0 ft

Surface Water Elev. N/A
Stream Bed Elev. N/A
Groundwater Elevation:
First Encounter 813.0 ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

| Description | Depth (ft) | Blows (/6") | UCS Qu (tsf) | Moist (%) |
|---|---|---|---|---|
| 8.0" Apshalt, 4.0" Concrete | | | | |
| CONCRETE | | - | | |
| | | - | | |
| | | - | - | - |
| SANDY CLAY LOAM-dark brown-loose (FILL) | | 4 | | |
| | | 2 | | |
| | -5 | 2 | NP | 13 |
| SANDY ORGANIC TOPSOIL (wet) | | 1 | | |
| | | 2 | | |
| | | 2 | NP | 53 |
| Fine to Medium SAND-brown-loose to medium dense (A-3) | | 2 | | |
| | | 2 | | |
| | -10 | 4 | NP | 13 |
| | | 3 | | |
| | | 2 | | |
| | | 3 | NP | 19 |
| | | 3 | | |
| | | 3 | | |
| | -15 | 5 | NP | 19 |
| | | 3 | | |
| | | 5 | | |
| | | 5 | NP | 16 |
| | | 3 | | |
| | | 5 | | |
| | -20 | 8 | NP | 18 |
| Fine to Medium SAND-brown-loose to medium dense (A-3) | | 4 | | |
| | | 6 | | |
| | | 6 | NP | 20 |
| | | 3 | | |
| | | 7 | | |
| | -25 | 10 | NP | NR |
| Fine to Medium SAND-gray-medium dense (A-3) | | 4 | | |
| | | 8 | | |
| | | 8 | NP | 21 |
| | | 6 | | |
| | | 6 | | |
| | -30 | 7 | NP | 20 |
| | | 8 | | |
| | | 9 | | |
| | | 11 | NP | 21 |
| | | 6 | | |
| | | 9 | | |
| | -35 | 14 | NP | NR |
| Fine to Medium SAND-trace large gravel-gray-very loose to medium dense (A-3) | | 9 | | |
| | | 12 | | |
| | | 12 | NP | 12 |
| | | 6 | | |
| | | 8 | | |
| | -40 | 7 | NP | 13 |

The Unconfined Compressive Strenght (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)


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PAGE 2 of 2
DATE June 21, 2002
LOGGED BY JR
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ROUTE FAP Rte. 533
DESCRIPTION Illinois Route 176 over the S. Branch of the Kishwaukee River
TWNSHP Seneca
LOCATION TWP 44 N, R 6E on the south boundary of Sec 28
COUNTY McHenry
DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 056-0071
Station 51+50
BORING NO. SB-1
Station 49+42
Offset 12' Right (South)
Ground Surface Elev. 818.0 ft

Surface Water Elev. N/A
Stream Bed Elev. N/A
Groundwater Elevation:
First Encounter 813.0 ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

| Description | Depth (ft) | Blows (/6") | UCS Qu (tsf) | Moist (%) |
|---|---|---|---|---|
| Fine to Medium SAND-trace large gravel-gray-very loose to medium dense (A-3) | | 4 | | |
| | | 6 | | |
| | | 9 | NP | 21 |
| | | 4 | | |
| | -45 | 9 | | |
| | | 11 | NP | NR |
| | | 4 | | |
| | | 4 | | |
| | | 6 | NP | NR |
| | | 1 | | |
| | | 1 | | |
| | -50 | 1 | NP | NR |
| Fine to Coarse SAND-trace to some large gravel-gray-medium dense to very dense (A-1b) | | 15 | | |
| | | 20 | | |
| | | 14 | NP | 12 |
| | | 8 | | |
| | | 10 | | |
| | -55 | 12 | NP | 7 |
| | | 10 | | |
| | | 20 | | |
| | | 22 | NP | 6 |
| | | 12 | | |
| | | 19 | | |
| | -60 | 22 | NP | 18 |
| Fine to Coarse SAND-trace to some large gravel-gray-medium dense to very dense (A-1b) | | 4 | | |
| | | 16 | | |
| | | 24 | | |
| | | 29 | NP | 16 |
| | | 14 | | |
| | | 26 | | |
| | -65 | 30 | NP | NR |
| | | 6 | | |
| | | 3 | | |
| | | 6 | NP | 16 |
| | | 10 | | |
| | | 20 | | |
| | -70 | 20 | NP | NR |
| Fine to Medium SAND-trace large grave-gray-dense to very dense (A-3) | | 12 | | |
| | | 20 | | |
| | | 26 | NP | 9 |
| | | 18 | | |
| | | 29 | | |
| | -75 | 31 | NP | NR |
| | | 20 | | |
| | | 30 | | |
| | | 38 | NP | 11 |
| | | 24 | | |
| | | 35 | | |
| END OF BORING @ 80.0' | -80 | 39 | NP | NR |


The Unconfined Compressive Strenght (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)


| | |
|---|---|
| DESIGNED | S.S.T. |
| CHECKED | S.D.H. |
| DRAWN | E.B. |
| CHECKED | S.S.T. |

BORING LOGS (SHEET 1 of 6)
IL Route 176 over
South Branch of the Kishwaukee River
F.A.P. RTE 533, SECTION 119R-1-B
McHENRY COUNTY
STATION 51+50.00
DATE: 08-17-07 S.N. 056-0071

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC
CHICAGO ILLINOIS

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