

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                     |         |                  |                   |           |                  |
|---------------------|---------|------------------|-------------------|-----------|------------------|
| ROUTE NO.           | SECTION | COUNTY           | TOTAL SHEETS      | SHEET NO. | SHEET NO. - S-61 |
| 346                 | *       | LAKE             | 469               | 230       | S-66 SHEETS      |
| FED. ROAD DIST. NO. |         | ILLINOIS         | FED. AID PROJECT- |           |                  |
| * 125X-HB-(1&2) R-1 |         | CONTRACT # 60826 |                   |           |                  |

Geo Services, Inc.  
Geotechnical, Environmental & Civil Engineering  
805 Amber Court, Suite 204  
Naperville, Illinois 60565  
(630) 995-2306

PAGE 1 of 3  
DATE June 21, 2004  
LOGGED BY AD  
GSI JOB No. 0314

SOIL BORING LOG

ROUTE FAP Rte. 346 DESCRIPTION New Overpass  
TOWNSHIP Curnee LOCATION TWP 44 N, R 6E on the south boundary of Sec 28  
COUNTY Lake DRILLING METHOD 3.25' HSA/Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-0209  
Station \_\_\_\_\_  
BORING NO. B-6  
Station 535+27.2 US 41 Centerline  
Offset 31.2' Left  
Ground Surface Elev. 683.2

| DEPTH (ft)   | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) | DESCRIPTION  | DEPTH (ft) | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) | DESCRIPTION |
|--------------|-----------------------|-----------|--------------|--|------------|-----------------------|-----------|--------------|-------------|
|              |                       |           |              | Surface Water Elev. n/a                                    |            |                       |           |              |             |
|              |                       |           |              | Stream Bed Elev. n/a                                       |            |                       |           |              |             |
|              |                       |           |              | Groundwater Elevation:                                     |            |                       |           |              |             |
|              |                       |           |              | First Encounter n/a  |            |                       |           |              |             |
|              |                       |           |              | Upon Completion n/a  |            |                       |           |              |             |
|              |                       |           |              | After _____ Hrs.   |            |                       |           |              |             |
| ...continued |                       |           |              |  |            |                       |           |              |             |
| 5            |                       | 100       |              | CLAYEY TOPSOIL-black (A-7)                                 | 10         |                       |           |              |             |
| 5            |                       |           |              | Poorly Graded SAND & GRAVEL-gray-dense to very dense (A-1) | 14         |                       |           |              |             |
| 7            | 0.4B                  | 25        |              |  | 16         | NP                    | 11        |              |             |
| 679.7        |                       |           |              |  |            |                       |           |              |             |
| 5            |                       |           | 113          |  | 24         |                       |           |              |             |
| 6            |                       |           |              |  | 32         |                       |           |              |             |
| -5           | 7                     | 2.0P      | 18           | CLAY-gray-stiff to very stiff (A-6)                        | -25        | 45                    | NP        | 13           |             |
| 657.7        |                       |           |              |  |            |                       |           |              |             |
| 5            |                       |           | 116          | CLAY-gray-hard (A-6)                                       | 35         |                       | 125       |              |             |
| 7            |                       |           |              |  | 27         |                       | 4.0P      | 13           |             |
| 16           | 2.5P                  | 17        |              |  |            |                       |           |              |             |
| 4            |                       |           | 102          | Apparent cobbles or boulder @ -28.5'                       | 100/3'     |                       |           |              |             |
| 8            |                       |           |              |  |            |                       |           |              |             |
| -10          | 12                    | 1.7B      | 24           |  | -30        |                       |           | NR           |             |
| 9            |                       |           | 101          |  |            |                       |           |              |             |
| 11           |                       |           |              |  |            |                       |           |              |             |
| 12           | 2.1B                  | 24        |              |  |            |                       |           |              |             |
| 5            |                       |           | 102          |  | 9          |                       | 121       |              |             |
| 8            |                       |           |              |  | 10         |                       |           |              |             |
| -15          | 10                    | 2.5B      | 24           |  | -35        | 19                    | 4.5P      | 15           |             |
| 4            |                       |           | 111          |  |            |                       |           |              |             |
| 8            |                       |           |              |  |            |                       |           |              |             |
| 13           | 1.9B                  | 19        |              |  |            |                       |           |              |             |
| 6            |                       |           | 103          |  | 8          |                       | 121       |              |             |
| 10           |                       |           |              |  | 14         |                       |           |              |             |
| -20          | 16                    | 1.9B      | 24           |  | -40        | 19                    | 4.5P      | 15           |             |

Geo Services, Inc.  
Geotechnical, Environmental & Civil Engineering  
805 Amber Court, Suite 204  
Naperville, Illinois 60565  
(630) 995-2306

PAGE 2 of 3  
DATE June 21, 2004  
LOGGED BY JR  
GSI JOB No. 0314

SOIL BORING LOG

ROUTE FAP Rte. 346 DESCRIPTION New Overpass  
TOWNSHIP Curnee LOCATION TWP 44 N, R 6E on the south boundary of Sec 28  
COUNTY Lake DRILLING METHOD 3.25' HSA/Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-0209  
Station \_\_\_\_\_  
BORING NO. B-6  
Station 535+27.2 US 41 Centerline  
Offset 31.2' Left  
Ground Surface Elev. 683.2

| DEPTH (ft)  | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) | DESCRIPTION   | DEPTH (ft) | BLOW COUNT (blows/6") | UCS (tsf) | MOISTURE (%) | DESCRIPTION |
|---|-----------------------|-----------|--------------|---|------------|-----------------------|-----------|--------------|-------------|
|   |                       |           |              | Surface Water Elev. n/a   |            |                       |           |              |             |
|   |                       |           |              | Stream Bed Elev. n/a  |            |                       |           |              |             |
|   |                       |           |              | Groundwater Elevation:  |            |                       |           |              |             |
|   |                       |           |              | First Encounter n/a   |            |                       |           |              |             |
|   |                       |           |              | Upon Completion n/a   |            |                       |           |              |             |
|   |                       |           |              | After _____ Hrs.  |            |                       |           |              |             |
| CLAY-gray-stiff to very stiff (A-6)                             |                       |           |              |   |            |                       |           |              |             |
| Poorly Graded SAND with Gravel-gray-dense to very dense (A-1-b) |                       |           |              |   |            |                       |           |              |             |
| 619.7   |                       |           |              |   |            |                       |           |              |             |
| 7   |                       |           | 118          |   | 10         |                       |           | 111          |             |
| 8   |                       |           |              |   | 15         |                       |           |              |             |
| -45   | 11                    | 3.5P      | 16           |   | -65        | 18                    | 2.5P      | 19           |             |
| CLAY-gray-hard (A-6)  |                       |           |              |   |            |                       |           |              |             |
| 10  |                       |           | 119          |   | 12         |                       | 120       |              |             |
| 6   |                       |           |              |   | 16         |                       |           |              |             |
| -50   | 9                     | 2.5P      | 15           |   | -70        | 20                    | 4.5P      | 15           |             |
| 629.7   |                       |           |              |   |            |                       |           |              |             |
| 14  |                       |           | 120          |   | 10         |                       | 120       |              |             |
| 17  |                       |           |              |   | 15         |                       |           |              |             |
| -55   | 26                    | NP        | 19           | Poorly Graded SAND with Gravel-gray-dense to very dense (A-1-b) | -75        | 18                    | 4.5P      | 15           |             |
| 14  |                       |           | 121          |   | 18         |                       |           |              |             |
| 17  |                       |           |              |   | 22         |                       |           |              |             |
| -60   | 44                    | NP        | 11           |   | -80        | 28                    |           | 15           |             |

The Unconfined Compressive Strength (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 (%)

The Unconfined Compressive Strength (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 (%)

TYLINTERNATIONAL

|          |       |
|----------|-------|
| DESIGNED | - MAF |
| CHECKED  | - AD  |
| DRAWN    | - MAF |
| CHECKED  | - AD  |

BORING LOG B-6  
(1 OF 2)

FAP 346 (U.S. ROUTE 41 - SKOKIE  
HIGHWAY) OVER ILLINOIS ROUTE 132  
SECTION 125X-HB-(1&2)R-1  
LAKE COUNTY  
S.N. 049-0209