

Geo Services Inc. Geotechnical, Environmental & Civil Engineering  
805 Argonne, Chicago, IL 60654  
(773) 352-2555

**SOIL BORING LOG** PAGE 1 of 1  
DATE 10/11/2011  
LOGGED BY DR  
GSI JOB No. 10191

ROUTE IL Rte. 25 & IL Rte. 31 DESCRIPTION Red Gate Road Over The Fox River  
SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township  
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---  
Station ---  
BORING NO. **BW-03**  
Station 622+00  
Offset Baseline  
Ground Surface Elev. 705.0

| DEPTH (ft) | UCS (tsf) | MOIST (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elevation: | First Encounter | Upon Completion | After Hrs. | DEPTH (ft) | UCS (tsf) | MOIST (%) |
|------------|-----------|-----------|---------------------|------------------|------------------------|-----------------|-----------------|------------|------------|-----------|-----------|
| 0          |           |           | n/a                 | n/a              |                        |                 |                 |            | 0          |           |           |
| 1          |           |           |                     |                  |                        |                 |                 |            | 1          |           |           |
| 2          |           |           |                     |                  |                        |                 |                 |            | 2          |           |           |
| 3          | 2.0P      | 20        |                     |                  |                        |                 |                 |            | 3          | NP        | 6         |
| 4          |           |           |                     |                  |                        |                 |                 |            | 4          |           |           |
| 5          | 2.25P     | 18        |                     |                  |                        |                 |                 |            | 5          | NP        | 5         |
| 6          |           |           |                     |                  |                        |                 |                 |            | 6          |           |           |
| 7          |           |           |                     |                  |                        |                 |                 |            | 7          |           |           |
| 8          | NP        | 3         |                     |                  |                        |                 |                 |            | 8          | NP        | 12        |
| 9          |           |           |                     |                  |                        |                 |                 |            | 9          |           |           |
| 10         |           |           |                     |                  |                        |                 |                 |            | 10         |           |           |
| 11         |           |           |                     |                  |                        |                 |                 |            | 11         |           |           |
| 12         |           |           |                     |                  |                        |                 |                 |            | 12         |           |           |
| 13         |           |           |                     |                  |                        |                 |                 |            | 13         |           |           |
| 14         |           |           |                     |                  |                        |                 |                 |            | 14         |           |           |
| 15         |           |           |                     |                  |                        |                 |                 |            | 15         |           |           |
| 16         |           |           |                     |                  |                        |                 |                 |            | 16         |           |           |
| 17         |           |           |                     |                  |                        |                 |                 |            | 17         |           |           |
| 18         |           |           |                     |                  |                        |                 |                 |            | 18         |           |           |
| 19         |           |           |                     |                  |                        |                 |                 |            | 19         |           |           |
| 20         |           |           |                     |                  |                        |                 |                 |            | 20         |           |           |
| 21         |           |           |                     |                  |                        |                 |                 |            | 21         |           |           |
| 22         |           |           |                     |                  |                        |                 |                 |            | 22         |           |           |
| 23         |           |           |                     |                  |                        |                 |                 |            | 23         |           |           |
| 24         |           |           |                     |                  |                        |                 |                 |            | 24         |           |           |
| 25         |           |           |                     |                  |                        |                 |                 |            | 25         |           |           |
| 26         |           |           |                     |                  |                        |                 |                 |            | 26         |           |           |
| 27         |           |           |                     |                  |                        |                 |                 |            | 27         |           |           |
| 28         |           |           |                     |                  |                        |                 |                 |            | 28         |           |           |
| 29         |           |           |                     |                  |                        |                 |                 |            | 29         |           |           |
| 30         |           |           |                     |                  |                        |                 |                 |            | 30         |           |           |

6.0' SANDY TOPSOIL-dark brown 704.5  
CLAY LOAM-brown-very stiff (A-6)  
SAND & GRAVEL-brown & gray-medium dense to dense (A-1)  
SAND & GRAVEL-brown-medium dense (A-1)  
SAND with Gravel-brown & gray-medium dense (A-1-b)  
SAND & GRAVEL-brown & gray-medium dense (A-1)  
SAND-gray-medium dense (A-3)

End Of Boring @ -30.0'  
Hollow Stem Augers  
Diedrich Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586) The Unit Dry Weight (pcf) is noted in Italics above moist (%)  
NR-No Recovery PS-Pushed Spoon

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**SOIL BORING LOG** PAGE 1 of 1  
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SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township  
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. ---  
Station ---  
BORING NO. **BW-04**  
Station 624+00  
Offset Baseline  
Ground Surface Elev. 714.0

| DEPTH (ft) | UCS (tsf) | MOIST (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elevation: | First Encounter | Upon Completion | After Hrs. | DEPTH (ft) | UCS (tsf) | MOIST (%) |
|------------|-----------|-----------|---------------------|------------------|------------------------|-----------------|-----------------|------------|------------|-----------|-----------|
| 0          |           |           | n/a                 | n/a              |                        |                 |                 |            | 0          |           |           |
| 1          |           |           |                     |                  |                        |                 |                 |            | 1          |           |           |
| 2          |           |           |                     |                  |                        |                 |                 |            | 2          |           |           |
| 3          |           |           |                     |                  |                        |                 |                 |            | 3          |           |           |
| 4          |           |           |                     |                  |                        |                 |                 |            | 4          |           |           |
| 5          |           |           |                     |                  |                        |                 |                 |            | 5          |           |           |
| 6          |           |           |                     |                  |                        |                 |                 |            | 6          |           |           |
| 7          |           |           |                     |                  |                        |                 |                 |            | 7          |           |           |
| 8          |           |           |                     |                  |                        |                 |                 |            | 8          |           |           |
| 9          |           |           |                     |                  |                        |                 |                 |            | 9          |           |           |
| 10         |           |           |                     |                  |                        |                 |                 |            | 10         |           |           |
| 11         |           |           |                     |                  |                        |                 |                 |            | 11         |           |           |
| 12         |           |           |                     |                  |                        |                 |                 |            | 12         |           |           |
| 13         |           |           |                     |                  |                        |                 |                 |            | 13         |           |           |
| 14         |           |           |                     |                  |                        |                 |                 |            | 14         |           |           |
| 15         |           |           |                     |                  |                        |                 |                 |            | 15         |           |           |
| 16         |           |           |                     |                  |                        |                 |                 |            | 16         |           |           |
| 17         |           |           |                     |                  |                        |                 |                 |            | 17         |           |           |
| 18         |           |           |                     |                  |                        |                 |                 |            | 18         |           |           |
| 19         |           |           |                     |                  |                        |                 |                 |            | 19         |           |           |
| 20         |           |           |                     |                  |                        |                 |                 |            | 20         |           |           |
| 21         |           |           |                     |                  |                        |                 |                 |            | 21         |           |           |
| 22         |           |           |                     |                  |                        |                 |                 |            | 22         |           |           |
| 23         |           |           |                     |                  |                        |                 |                 |            | 23         |           |           |
| 24         |           |           |                     |                  |                        |                 |                 |            | 24         |           |           |
| 25         |           |           |                     |                  |                        |                 |                 |            | 25         |           |           |
| 26         |           |           |                     |                  |                        |                 |                 |            | 26         |           |           |
| 27         |           |           |                     |                  |                        |                 |                 |            | 27         |           |           |
| 28         |           |           |                     |                  |                        |                 |                 |            | 28         |           |           |
| 29         |           |           |                     |                  |                        |                 |                 |            | 29         |           |           |
| 30         |           |           |                     |                  |                        |                 |                 |            | 30         |           |           |

6.0' CLAYEY TOPSOIL-dark brown 713.0  
CLAYEY SAND-dark brown-loose (A-2/A-3)  
SAND with Gravel-brown & gray-loose (A-1-b)  
SAND-brown & gray-medium dense to dense (A-3)  
SAND & GRAVEL-brown & gray-dense (A-1)  
SAND & GRAVEL-brown & gray-medium dense to dense (A-1)  
End Of Boring @ -30.0'  
Hollow Stem Augers  
Diedrich Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test  
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NR-No Recovery PS-Pushed Spoon

BOARDWALK SOIL BORING LOG

REVISÉ 01/06/2012

|                        |                   |           |
|------------------------|-------------------|-----------|
| FILE NAME =            | DESIGNED - BD/WS  | REVISED   |
| USER NAME = TERRA      | DRAWN - BD/JW/KC  | REVISED - |
| PLOT DATE = 12/29/2011 | CHECKED - WS      | REVISED - |
|                        | DATE - 10/24/2011 | REVISED - |



CITY OF ST. CHARLES

RED GATE ROAD  
SOIL BORING LOGS - BOARDWALK (2 OF 2)

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 04-00092-00-BR | KANE   | 440          | 78        |
| CONTRACT NO. 63650        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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