## MIDLAND STANDARD ENGINEERING & TESTING, INC.

### STRUCTURE FOUNDATION BORING LOG

SHEET 1 OF 1

PROJECT IL. Route 31 - Algonquin Bypass, IL. Route 31 Retaining Wall
ROUTE IL. Route 31 at IL. Route 62
SECTION
STATION 128+00 to 138+00
DATE 11/18/08
BORED BY SPE
CHECKED BY WJW

COUNTY McHenry
BORING RW-8
STATION 128+70
OFFSET 28' R of CL

WATER LEVEL DURING DRILLING 3.5'
GROUND WATER AT COMPLETION 3.5'
Grouted at Completion

| | Depth | N/6" | Qu tsf | W % |
|---|---|---|---|---|
| GROUND SURFACE EL. 740.7 | Ft | | | |
| Black Organic Silty CLAY, A-7-6 | | 2 2 4 | - | 34 |
| Brown SAND (f-c) and GRAVEL, A-1, medium dense 737.7 | 5 | 17 22 9 | - | 17 |
| | | 7 9 10 | - | 12 |
| | 10 | 8 15 19 | - | 8 |
| | | 12 18 20 | - | 9 |
| Grey SILT, A-4, dense 726.7 | 15 | 12 17 21 | - | 16 |
| Grey Clay LOAM, A-6, very stiff 725.2 | | 4 7 14 | 3.22 B | 14 |
| | 20 | 4 8 13 | 3.80 B | 13 |

| | Depth | N/6" | Qu tsf | W % |
|---|---|---|---|---|
| Grey Clay LOAM, A-6, very stiff 720.7 | Ft | | | |
| | | 8 9 12 | 3.76 B | 13 |
| | 25 | 5 9 13 | 3.22 B | 14 |
| | | 5 9 13 | 3.10 B | 12 |
| End of Boring @ 30.0' 710.7 | 30 | 5 10 14 | 3.45 B | 14 |

N-Standard Penetration Test- Blows per foot to drive 2 inch O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches

Qu- Unconfined Compressive Strength (tsf)
W- Water Content-percentage of oven dry weight (%)

Type failure: B- Bulge Failure S- Shear Failure E- Estimated Value P-Penetrometer

## MIDLAND STANDARD ENGINEERING & TESTING, INC.

### STRUCTURE FOUNDATION BORING LOG

SHEET 1 OF 1

PROJECT IL. Route 31 - Algonquin Bypass, IL. Route 31 Retaining Wall
ROUTE IL. Route 31 at IL. Route 62
SECTION
STATION 128+00 to 130+00
DATE 11/25/08
BORED BY SPE
CHECKED BY WJW

COUNTY McHenry
BORING RW-9
STATION 130+00
OFFSET 40' R of CL

WATER LEVEL DURING DRILLING 6.0'
GROUND WATER AT COMPLETION 6.5'
Grouted at Completion

| | Depth | N/6" | Qu tsf | W % |
|---|---|---|---|---|
| GROUND SURFACE EL. 745.4 | Ft | | | |
| Dark Brown Silty CLAY, A-6 mixed with Gravel, A-1: FILL | | 6 7 9 | - | 14 |
| | | 3 4 14 | - | 7 |
| large PGE type Rock | 5 | | | |
| Black Organic CLAY, A-8 739.9 | | 1 3 5 | - | 177 |
| Grey SAND (f-), A-2, medium dense 738.4 | | | | |
| Grey SAND (f-c) and GRAVEL, A-1, medium dense 736.9 | 10 | 12 9 7 | - | 18 |
| dense | | 20 20 19 | - | 8 |
| Pinkish-Brown to Grey Clay LOAM, A-6, very stiff 732.5 | 15 | 9 11 10 | 3.37 B | 11 |
| Brown SAND and GRAVEL, A-1, medium dense 729.9 | | 7 14 14 | - | 10 |
| Pinkish-Grey Clay LOAM, A-6, hard 727.4 | 20 | 11 12 16 | 4.84 B | 12 |

| | Depth | N/6" | Qu tsf | W % |
|---|---|---|---|---|
| Pinkish-Grey Clay LOAM, A-6, very stiff to hard 725.4 | Ft | | | |
| | | 9 11 16 | 4.77 B | 12 |
| | 25 | 10 12 15 | 3.45 B | 13 |
| | | 10 11 14 | 3.14 B | 14 |
| End of Boring @ 30.0' 715.4 | 30 | 8 9 15 | 2.87 B | 14 |

N-Standard Penetration Test- Blows per foot to drive 2 inch O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches

Qu- Unconfined Compressive Strength (tsf)
W- Water Content-percentage of oven dry weight (%)

Type failure: B- Bulge Failure S- Shear Failure E- Estimated Value P-Penetrometer

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klb 5/2/2012

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| | |
|---|---|
| DRAWN | K. BOCHNOWSKI |
| DESIGNED | D. ATKINS |
| CHECKED | G. HATLESTAD |
| DATE | 5/3/2012 |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**BORING LOGS II**
**WALL E; RAMP C**
**STRUCTURE NO. 056-2502**
SHEET NO. WE7 OF WE7 SHEETS

| O.R. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0003 | 18A-2 | MCHENRY | 825 | 619 |
| | | CONTRACT NO. 60F72 | | |
| | ILLINOIS FED. AID PROJECT | | | |