

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall - IL. Route 31 DATE 1/12/09
 ROUTE FAP 339/ILL 31 BORED BY SPE
 SECTION 96-00209-00-PV STATION 136+00 to 144+00 CHECKED BY WJW

| COUNTY <u>McHenry</u> | | WATER LEVEL DURING DRILLING <u>none</u> | | WATER LEVEL AT COMPLETION <u>dry</u> | | | |
|------------------------------------|------|---|----|--------------------------------------|------|----------------------------|----|
| Depth | N/6" | Qu | W | Depth | N/6" | Qu | W |
| | | tsf | % | | | tsf | % |
| GROUND SURFACE EL. <u>774.9</u> Ft | | | | GROUND SURFACE EL. <u>754.9</u> Ft | | | |
| Brown Clay LOAM, A-6 | | Brown-Grey Silty CLAY, A-6 | | Brown-Grey | | Brown-Grey Silty CLAY, A-6 | |
| | 1 | | | 9 | | | |
| | 2 | 1.43 | 14 | 12 | | 6.47 | 11 |
| | 5 | B | | 15 | | B | |
| | 6 | | | 8 | | | |
| | 8 | 5.97 | 11 | 11 | | 4.88 | 11 |
| | 10 | B | | 16 | | B | |
| | 6 | | | 8 | | | |
| | 7 | 4.26 | 11 | 10 | | 4.65 | 11 |
| | 9 | B | | 13 | | B | |
| | 6 | | | 7 | | | |
| | 9 | 6.08 | 11 | 10 | | 5.89 | 12 |
| | 10 | B | | 12 | | B | |
| | 6 | | | End of Boring @ 30.0' <u>744.9</u> | | | |
| | 8 | 6.43 | 10 | | | | |
| | 10 | B | | | | | |
| | 8 | | | | | | |
| | 11 | 5.12 | 10 | | | | |
| | 13 | B | | | | | |
| | 7 | | | | | | |
| | 10 | 6.05 | 10 | | | | |
| | 12 | B | | | | | |
| | 14 | | | | | | |
| | 14 | 6.70 | 10 | | | | |
| | 18 | B | | | | | |

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.

BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall - IL. Route 31 DATE 2/3/09
 ROUTE FAP 339/ILL 31 BORED BY SPE
 SECTION 96-00209-00-PV STATION 136+00 to 144+00 CHECKED BY WJW

| COUNTY <u>McHenry</u> | | WATER LEVEL DURING DRILLING <u>29.0'</u> | | WATER LEVEL AT COMPLETION <u>31.2'</u> | | | |
|------------------------------------|------|--|----|--|------|---------------------------|----|
| Depth | N/6" | Qu | W | Depth | N/6" | Qu | W |
| | | tsf | % | | | tsf | % |
| GROUND SURFACE EL. <u>792.2</u> Ft | | | | GROUND SURFACE EL. <u>772.2</u> Ft | | | |
| Brown Clay LOAM, A-6 | | Brown-Grey Clay LOAM, A-6 | | Brown-Grey | | Brown-Grey Clay LOAM, A-6 | |
| | 5 | | | 8 | | | |
| | 6 | 2.95 | 12 | 10 | | 6.05 | 11 |
| | 7 | B | | 12 | | BS | |
| | 7 | | | 8 | | | |
| | 8 | 3.41 | 12 | 10 | | 1.78 | 12 |
| | 10 | B | | 10 | | B | |
| | 4 | | | End of Boring @ 40.0' <u>752.2</u> | | | |
| | 6 | 2.95 | 13 | | | | |
| | 9 | B | | | | | |
| | 6 | | | | | | |
| | 8 | 3.33 | 12 | | | | |
| | 10 | B | | | | | |
| | 7 | | | | | | |
| | 10 | 5.89 | 12 | | | | |
| | 12 | B | | | | | |
| Grey SAND (f), A-3 <u>780.5</u> | | | | | | | |
| | 14 | | | | | | |
| | 17 | 3.88 | 12 | | | | |
| | 13 | BS | | | | | |
| Grey Clay LOAM, A-6 <u>778.2</u> | | | | | | | |
| | 6 | | | | | | |
| | 9 | 4.77 | 11 | | | | |
| | 13 | B | | | | | |

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 (%)
 ST- Shelby Tube Sample
 * - Classification Test Results on Form BBS 2640
 Type failure:
 B- Bulge Failure
 S- Shear Failure
 E- Estimated Value
 P-Penetrometer

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BORING LOG

SHEET 1 OF 2

PROJECT Algonquin Bypass Retaining Wall - IL. Route 31 DATE 1/7/09
 ROUTE FAP 339/ILL 31 BORED BY CD
 SECTION 96-00209-00-PV STATION 136+00 to 144+00 CHECKED BY WJW

| COUNTY <u>McHenry</u> | | WATER LEVEL DURING DRILLING <u>78.0'</u> | | WATER LEVEL AT COMPLETION <u>77.8'</u> | | | |
|------------------------------------|------|--|----|--|------|---------------------------|----|
| Depth | N/6" | Qu | W | Depth | N/6" | Qu | W |
| | | tsf | % | | | tsf | % |
| GROUND SURFACE EL. <u>831.5</u> Ft | | | | GROUND SURFACE EL. <u>811.5</u> Ft | | | |
| Red-Brown Clay LOAM, A-6 | | Brown-Grey Clay LOAM, A-6 | | Brown-Grey | | Brown-Grey Clay LOAM, A-6 | |
| | 6 | | | 5 | | | |
| | 10 | 6.51 | 12 | 8 | | 1.82 | 13 |
| | 13 | BS | | 12 | | BS | |
| | 6 | | | 5 | | | |
| | 8 | 3.49 | 10 | 7 | | | |
| | 10 | BS | | 10 | | 2.91 | 11 |
| | 13 | B | | 15 | | B | |
| | 5 | | | 8 | | | |
| | 10 | 3.64 | 12 | 9 | | 4.15 | 12 |
| | 15 | BS | | 15 | | B | |
| | 7 | | | 12 | | | |
| | 10 | 2.95 | 13 | 15 | | 2.13 | 12 |
| | 16 | B | | 16 | | B | |
| | 24 | B | | continued | | | |

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 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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DRAWN - C. BRABAND
 DESIGNED - D. ATKINS
 CHECKED - G. HATLESTAD
 DATE - 5/3/2012

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS I
WALL F; ILLINOIS ROUTE 31
STRUCTURE NO. 056-2505
 SHEET NO. WF14 OF WF15 SHEETS

| O.R. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------|--------------|-----------|
| 0003 | 18A-2 | MCHENRY | 825 | 633 |
| CONTRACT NO. 60F72 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |