

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall DATE 3/9/09  
 ROUTE FAP 339/ILL 31 Algonquin Road BORED BY SPE  
 SECTION 96-00209-00-PV STATION 63+00 to 69+50 CHECKED BY WJW

COUNTY McHenry				WATER LEVEL DURING DRILLING none			
BORING RW-114				GROUND WATER AT COMPLETION dry			
STATION 64+20							
OFFSET 15' R of CL							
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. 762.4 Ft				Brown-Grey to Grey Clay LOAM, A-6 742.4 Ft			
1 1/2" Bituminous Concrete over 6" Grey Crushed Limestone							
20	22	-	4	5	6	5.77	12
Brown SAND and GRAVEL, A-1: FILL 760.6				5 6 6 3.88 B			
Dark Brown Silty Clay LOAM, A-6 759.4				5 6 6 3.88 B			
Brown to Red-Brown Clay LOAM, A-6 756.9				5 6 6 3.60 B			
Brown to Red-Brown Clay LOAM, A-6 756.9				5 6 6 3.57 B			
End of boring @ 30.0' 732.4							
9 11 13 6.12 BS							
10 11 13 9.26 BS							
11 11 13 5.93 BS							
12 7 7 4.07 S							

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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 SECTION 96-00209-00-PV STATION 63+00 to 69+50 CHECKED BY WJW

COUNTY McHenry				WATER LEVEL DURING DRILLING none			
BORING RW-115				GROUND WATER AT COMPLETION dry			
STATION 65+00							
OFFSET 15' R of CL							
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. 762.4 Ft				Brown-Grey to Grey Silty CLAY, A-6 742.4 Ft			
1 1/2" Bituminous Concrete over 7" Grey Crushed Limestone							
17	12	-	5	7	7	3.88	12
Brown SAND and GRAVEL, A-1: FILL 760.5				7 7 10 3.88 B			
Brown to Red-Brown Clay LOAM, A-6 759.4				7 7 9 5.77 BS			
Brown to Red-Brown Clay LOAM, A-6 759.4				7 7 9 5.77 BS			
End of boring @ 35.0' 727.4							
8 10 17 8.22 BS							
9 10 17 4.61 S							
10 10 14 6.70 BS							
11 8 9 7.21 BS							
12 8 9 3.64 BS							
13 8 9 4.5 P							

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  
 ST- Shelby Tube Sample

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 SECTION 96-00209-00-PV STATION 63+00 to 69+50 CHECKED BY WJW

COUNTY McHenry				WATER LEVEL DURING DRILLING none			
BORING RW-116				GROUND WATER AT COMPLETION dry			
STATION 65+80							
OFFSET 15' R of CL							
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. 761.9 Ft				Grey Clay LOAM, A-6 743.1 Ft			
1 1/2" Bituminous Concrete over 3" Grey Crushed Limestone							
13	6	-	21	5	8	5.15	9
Brown SAND and GRAVEL A-1: FILL 760.3				5 8 8 BS			
Dark Brown Silty Clay LOAM, A-6 759.9				5 7 9 2.09 B			
Brown to Red-Brown Clay LOAM, A-6 758.7				5 7 9 4.07 B			
Brown to Red-Brown Clay LOAM, A-6 758.7				5 7 9 4.12 B			
End of boring @ 35.0' 726.9							
4 5 7 3.22 BS							
5 5 7 6.16 BS							
6 8 13 5.43 BS							
7 10 13 5.08 BS							
8 12 15 7.87 BS							
9 13 17 8.68 BS							
10 8 10 3.10 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  
 \* - Classification Test Results on Form BBS 2640

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