

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall DATE 2/25/09  
 ROUTE FAP 339/ILL 31 Huntington Drive BORED BY SPE  
 SECTION 96-00209-00-PV STATION 212+00 to 216+00 CHECKED BY WJW

COUNTY <u>McHenry</u>				WATER LEVEL DURING DRILLING <u>8.0'</u>			
BORING <u>RW-80</u>				GROUND WATER AT COMPLETION <u>24.0'</u>			
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. <u>772.8</u> Ft				Grey Clay LOAM, A-6 <u>752.8</u> Ft			
±3" Dark Brown Silty CLAY/TOPSOIL							
Red-Brown Clay LOAM, A-6 <u>772.5</u>							
3				10			
5		5.15	12	11		5.43	10
6		BS		17		S	
6				10			
9		4.61	11	13		6.47	10
10		BS		18		BS	
Brown-Grey				End of Boring @ 25.0' <u>747.8</u>			
5							
7		3.57	12				
9		BS					
Grey SAND, A-3 <u>765.3</u>							
Grey Clay LOAM, A-6 <u>764.8</u>							
6							
7		3.22	16				
9		B					
6							
7		4.84	10				
8		S					
7							
9		5.89	10				
12		BS					
9							
13		4.05	10				
14		BS					
10							
11							
14		5.77	10				
14		BS					

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 DATE 3/3/09  
 ROUTE FAP 339/ILL 31 Huntington Drive BORED BY SPE  
 SECTION 96-00209-00-PV STATION 212+00 to 216+00 CHECKED BY WJW

COUNTY <u>McHenry</u>				WATER LEVEL DURING DRILLING <u>14.0'</u>			
BORING <u>RW-81</u>				GROUND WATER AT COMPLETION <u>21.9'</u>			
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. <u>750.0</u> Ft				Grey Clay LOAM, A-6 <u>730.0</u> Ft			
3" Bituminous Concrete over 3" Brown SAND and GRAVEL, A-1							
Grey Clay LOAM, A-6 <u>749.5</u>							
12				7			
10		4.97	12	8		2.71	14
12		B		10		BS	
5				8			
6		6.08	11	11		3.10	13
7		BS		14		BS	
End of Boring @ 25.0' <u>725.0</u>							
5							
6		5.15	11				
11		BS					
6							
9		3.33	12				
10		BS					
7							
8		3.64	12				
10		BS					
5							
6		3.57	12				
9		BS					
5							
6		2.83	13				
9		BS					
9							
8		2.13	13				
10		BS					

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

wet SAND seam @ 14.0'

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall DATE 2/25/09  
 ROUTE FAP 339/ILL 31 Huntington Drive BORED BY SPE  
 SECTION 96-00209-00-PV STATION 212+00 to 216+00 CHECKED BY WJW

COUNTY <u>McHenry</u>				WATER LEVEL DURING DRILLING <u>none</u>			
BORING <u>RW-82</u>				GROUND WATER AT COMPLETION <u>dry</u>			
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. <u>758.2</u> Ft				Grey Clay LOAM, A-6 <u>738.2</u> Ft			
Dark Brown and Black Silty Clay LOAM, A-6: FILL							
2				3			
2		1.16	15	5		2.48	14
3		B		6		BS	
3				3			
4		1.98	3	4		2.25	13
4		B		7		BS	
End of Boring @ 25.0' <u>733.2</u>							
7							
5		2.5	19				
6		P					
5							
7		4.77	10				
7		BS					
4							
5		4.52	11				
7		BS					
4							
5		5.15	12				
7		BS					
4							
5		2.05	13				
7		BS					
4							
6		3.99	12				
8		BS					

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

I:\2154\Cad\sheet\Roadway\20-ST\Structures & Walls\15-Wall\J0562503-60F72-06-RL.dgn 4/27/03 PM 5/2/2012



450 E Devon Ave, Suite 300  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DRAWN - D. ATKINS  
 DESIGNED - M. LANGE  
 CHECKED - G. HATLESTAD  
 DATE - JANUARY 27, 2012

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS  
 WALL J: HUNTINGTON DRIVE  
 STRUCTURE NO. 056-2503  
 SHEET NO. WJ6 OF WJ6 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	655
CONTRACT NO. 60F72				
ILLINOIS FED. AID PROJECT				