

**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 209+50 to 216+00 CHECKED BY WJW

COUNTY <u>McHenry</u>		WATER LEVEL DURING DRILLING <u>none</u>		WATER LEVEL DURING DRILLING <u>none</u>			
BORING <u>RW-72</u>		GROUND WATER AT COMPLETION <u>dry</u>		GROUND WATER AT COMPLETION <u>dry</u>			
STATION <u>210+00</u>	Depth N/6"	Qu tsf	W %	STATION <u>210+00</u>	Depth N/6"	Qu tsf	W %
OFFSET <u>30' L of CL</u>				OFFSET <u>30' L of CL</u>			
GROUND SURFACE EL. <u>797.6</u>	Ft			GROUND SURFACE EL. <u>797.6</u>	Ft		
2-1/2" Bituminous Concrete over 5-1/2" Brown SAND & GRAVEL, A-6				Grey Clay LOAM, A-6			
Brown and Grey Silty CLAY, A-6: FILL	10	1.36	11		5	3.68	12
	8	S			8	BS	
	5				10		
Reddish-brown Clay LOAM, A-6	4	5.12	12		5	4.15	11
	6	BS			11	BS	
	8				14		
Brown-Grey	ST	3.69	13		8	5.70	11
					11	BS	
					14		
	5	2.95	12		9	5.62	12
	6	BS			12	BS	
	7				17		
	10			End of Boring @ 30.0'	30		
	5	3.22	12				
	6	BS					
	7						
	15	4.53	12				
	7						
	8	3.60	12				
	9	BS					
	20	2.40	13				
		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

**MIDLAND STANDARD ENGINEERING & TESTING, INC.**

**BORING LOG**

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall DATE 2/24/09  
 ROUTE FAP 339/ILL 31 Huntington Drive BORED BY SPE  
 SECTION 96-00209-00-PV STATION 209+50 to 216+00 CHECKED BY WJW

COUNTY <u>McHenry</u>		WATER LEVEL DURING DRILLING <u>none</u>		WATER LEVEL DURING DRILLING <u>none</u>			
BORING <u>RW-73</u>		GROUND WATER AT COMPLETION <u>dry</u>		GROUND WATER AT COMPLETION <u>dry</u>			
STATION <u>210+90</u>	Depth N/6"	Qu tsf	W %	STATION <u>210+90</u>	Depth N/6"	Qu tsf	W %
OFFSET <u>31' L of CL</u>				OFFSET <u>31' L of CL</u>			
GROUND SURFACE EL. <u>791.4</u>	Ft			GROUND SURFACE EL. <u>791.4</u>	Ft		
3" Bituminous Concrete over 6-1/2" Brown SAND and GRAVEL				Grey Clay LOAM, A-6			
Brown and Dark Brown Silty CLAY, A-6: FILL	13	4.5+	8		9	6.01	11
	15	P			10	BS	
	10				25		
Brown SAND (f-c), A-2: FILL 789.1	4	3.29	13		5	4.5+	11
Red-Brown Clay LOAM A-6	6	BS			8	P	
	8				11	4.36	10
	10				13	BS	
Brown-Grey	5	3.99	13		8	6.36	10
	7	BS			11	BS	
	10				13		
	8	4.84	8		9	6.70	10
	9	BS			10	BS	
	10			End of Boring @ 30.0'	30		
	9	4.73	12				
	10	BS					
	15	4.0	12				
	8						
	9	3.68	10				
	8	BS					
	20	4.96	11				
		BS					

N-Standard Penetration Test- Blows per foot to drive 2 inch  
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 Type failure:  
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 P- Penetrometer  
 \* - Classification Test Results on Form BBS 2640

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COUNTY <u>McHenry</u>		WATER LEVEL DURING DRILLING <u>13.0'</u>		WATER LEVEL DURING DRILLING <u>13.0'</u>			
BORING <u>RW-74</u>		GROUND WATER AT COMPLETION <u>12.8'</u>		GROUND WATER AT COMPLETION <u>12.8'</u>			
STATION <u>211+65</u>	Depth N/6"	Qu tsf	W %	STATION <u>211+65</u>	Depth N/6"	Qu tsf	W %
OFFSET <u>33' L of CL</u>				OFFSET <u>33' L of CL</u>			
GROUND SURFACE EL. <u>788.0</u>	Ft			GROUND SURFACE EL. <u>788.0</u>	Ft		
2-1/2" Bituminous Concrete over 7" Brown SAND and GRAVEL, A-1				Grey Clay LOAM, A-6			
Brown Clay LOAM, A-6	8	1.90	12		8	7.83	11
	5	S			14	BS	
	4				22		
Brown-Grey	4	3.68	12		9	5.04	11
	6	BS			21	S	
	7				31		
	5	3.18	12		10	7.63	10
	6	BS			14	BS	
	8				16		
	10	4.88	12		11	4.26	12
	7	BS			17	BS	
	9				21		
	10	6.05	11				
	6						
	8	3.53	12				
	13	BS					
	7	4.03	12				
	9	BS					
	20						

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