

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall DATE 2/23/09
 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>27.0'</u>		WATER LEVEL GROUND WATER AT COMPLETION <u>26.6'</u>			
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. <u>768.9</u>				Grey Clay LOAM, A-6 <u>748.9</u>			
2-1/2" Bituminous Concrete over 11-1/2" Grey Crushed Limestone Base Course							
Brown Clay LOAM, A-6 <u>767.7</u>		4	1.78 BS	11	10	6.51 BS	11
Brown-Grey		6			12		
5		4	3.49 BS	11	9	4.65 BS	12
		6			13		
		7	6.08 BS	11	8	5.27 BS	12
		8			10		
		11	3.76 BS	10	8	4.5 P	11
		14			14		
		12	6.36 S	10			
		14					
		10	7.09 BS	9			
		12					
		10	4.5+ P	10			
		12					
		11	5.04 BS	11			
		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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BORING LOG

SHEET 1 OF 1

PROJECT Algonquin Bypass Retaining Wall DATE 2/20/09
 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>11.5'</u>		WATER LEVEL GROUND WATER AT COMPLETION <u>15.8'</u>			
Depth	N/6"	Qu tsf	W %	Depth	N/6"	Qu tsf	W %
GROUND SURFACE EL. <u>764.5</u>				Grey Clay LOAM, A-6 <u>744.5</u>			
±13" Dark Brown Silty CLAY/TOPSOIL							
Red-Brown Clay LOAM, A-6 <u>763.4</u>		4	2.09 B	14	7	2.83 BS	13
5		5			9		
		4	2.44 B	14	6	2.75 BS	14
		5			7		
		8	3.88 BS	12	8	2.21 BS	13
		10			10		
		6	3.14 BS	12	8	3.29 BS	13
		11			11		
		5	3.22 BS	12			
Grey SAND, A-2, wet <u>753.0</u>		7					
Brown-Grey Clay LOAM, A-6 <u>751.5</u>		4	3.99 BS	11			
15		4					
		5	5.35 BS	12			
		7					
		10	4.73 BS	11			
		14					

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 O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches
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 Type failure: B- Bulge Failure
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS III
WALL H; HUNTINGTON DRIVE

SHEET NO. WH5 OF WH5 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	644
CONTRACT NO. 60F72				

ILLINOIS FED. AID PROJECT

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DESIGNED	-	M. LANGE
CHECKED	-	G. HATLESTAD
DATE	-	5/3/2012