

MIDLAND STANDARD ENGINEERING & TESTING, INC.

STRUCTURE FOUNDATION BORING LOG

SHEET 1 OF 1

PROJECT IL Route 31 - Algonquin Bypass, Ramp C Retaining Wall DATE 11/25/08
 ROUTE IL Route 31 at IL Route 62 BORED BY SPE
 SECTION _____ STATION 2+50 to 4+65 CHECKED BY WJW

COUNTY <u>McHenry</u>				WATER LEVEL DURING DRILLING <u>5.5'</u>			
BORING <u>RW-1</u>				GROUND WATER AT COMPLETION <u>25.5'</u>			
STATION <u>2+60</u>				Grouted at Completion			
OFFSET <u>9' R of CL</u>							
Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
GROUND SURFACE EL. <u>746.0</u> Ft				Ft			
2" Asphalt over Dark Brown SAND and GRAVEL Base Course				Grey Clay LOAM, A-6, very stiff			
Black Silty CLAY, A-7-6, stiff				726.0			
6				5			
5	1.63	22		8	3.41	14	
5	S			8	B		
Yellow-Brown SAND (F-c) and GRAVEL, A-1, medium dense				743.0			
6				5			
10	-	13		8	3.17	14	
12				8	B		
to Grey SAND, A-2, wet				25			
5				8	2.98	13	
5	2.09	12		10	3.64	13	
6	B			13	B		
Grey Clay LOAM, A-6, very stiff				739.2			
5				8			
5	3.05	13		11			
8	B			12			
End of Boring @ 30.0'				716.0			
5				13			
6	3.26	12					
9	B						
15							
5							
6	2.91	12					
10	B						
20							
5							
8	3.44	11					
12	B						
20							
8							
9	3.95	13					
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 (%)

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

MIDLAND STANDARD ENGINEERING & TESTING, INC.

STRUCTURE FOUNDATION BORING LOG

SHEET 1 OF 1

PROJECT IL Route 31 - Algonquin Bypass, Ramp C Retaining Wall DATE 12/11/08
 ROUTE IL Route 31 at IL Route 62 BORED BY SPE
 SECTION _____ STATION 2+50 to 4+65 CHECKED BY WJW

COUNTY <u>McHenry</u>				WATER LEVEL DURING DRILLING <u>4.0'</u>			
BORING <u>RW-2</u>				GROUND WATER AT COMPLETION <u>23.3'</u>			
STATION <u>3+90</u>				Grouted at Completion			
OFFSET <u>10' R of CL</u>							
Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
GROUND SURFACE EL. <u>741.0</u> Ft				Ft			
3" Mark Brown Silty CLAY/TOPSOIL				Brown-Grey Clay LOAM, A-6, hard to very stiff			
Brown SAND (F-c), little Gravel, A-2, medium dense				721.0			
4				7			
4	-	10		13	6.32	13	
8				15	BS		
Grey SAND and GRAVEL, A-1				738.0			
8				7			
11	-	15		13	6.28	13	
16				16	BS		
Brown-Grey Clay LOAM, A-6, very stiff				736.5			
5				25			
5				7			
8	3.95	12		11	3.72	15	
12	B			16	B		
Grey SILT, A-4, wet, medium dense				733.0			
11				7			
12	-	16		12	3.49	13	
12				15	B		
End of Boring @ 30.0'				711.0			
Brown-Grey Clay LOAM, A-6, hard				730.5			
6				6			
8	4.15	12		8			
12	BS			7			
15							
11				11	5.27	13	
16	BS			16			
20							
6				6			
9	5.89	12		9			
13	BS			13			
20							
5				5			
8	4.81	13		8			
13	BS			13			

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.

STRUCTURE FOUNDATION BORING LOG

SHEET 1 OF 1

PROJECT IL Route 31 - Algonquin Bypass, Ramp C Retaining Wall DATE 12/12/08
 ROUTE IL Route 31 at IL Route 62 BORED BY SPE
 SECTION _____ STATION 4+15 to 4+65 CHECKED BY WJW

COUNTY <u>McHenry</u>				WATER LEVEL DURING DRILLING <u>3.5'</u>			
BORING <u>RW-3</u>				GROUND WATER AT COMPLETION <u>4.0'</u>			
STATION <u>4+39</u>				Grouted at Completion			
OFFSET <u>24' L of CL</u>							
Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
GROUND SURFACE EL. <u>742.5</u> Ft				Ft			
Black over Dark Brown Clay LOAM, A-7-6, stiff				Brown-Grey Clay LOAM, A-6, very stiff to hard			
722.5							
2				9			
3	1.5	29		14	5.35	12	
4	P			18	BS		
Grey SAND and GRAVEL, A-1				739.5			
12				6			
9	-	12		12	3.88	14	
8				17	BS		
Cobble @ 3.5'				25			
5				6			
6				11	4.26	13	
9				13	BS		
15				7			
6				10	3.68	14	
9	2.09	13		14	BS		
11	B			End of Boring @ 30.0'			
Brown-Grey Clay LOAM, A-6, very stiff to hard				712.5			
6							
9	3.44	12					
13	B						
15							
7							
13	3.68	13					
18	BS						
Cobble @ 15.0'							
7							
13	4.19	13					
16	BS						
20							
9							
13	3.84	14					
20	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

I:\2154\cad\sheet\Roadway\20-STRUCTURES & WALLS\10-Wall E.0562502-60F72-06-RL.dgn 4:24:45 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	-	K. BOCHNOWSKI
DESIGNED	-	D. ATKINS
CHECKED	-	G. HATLESTAD
DATE	-	5/3/2012

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS I
WALL E; RAMP C
STRUCTURE NO. 056-2502
 SHEET NO. WE6 OF WE7 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	618
CONTRACT NO. 60F72				
ILLINOIS FED. AID PROJECT				