

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BRIDGE FOUNDATION BORING LOG

SHEET 1 OF 2

PROJECT IL. 31 - Algonquin Bypass BRIDGE IL. 31 over Crystal Creek DATE 1/7/09
 ROUTE IL. Route 31 at IL. Route 62 BORED BY SPE
 SECTION _____ STATION 126+45 to 127+90 CHECKED BY WJW

COUNTY	McHenry				WATER LEVEL				
BORING	BB-7				DURING DRILLING				
STATION	127+90				GROUND WATER				
OFFSET	29' L of CL				AT COMPLETION				
	Depth	N/6"	Qu	W		Depth	N/6"	Qu	W
	Ft		tsf	%		Ft		tsf	%
GROUND SURFACE EL.	740.3								
Brown and Black Silty CLAY/TOPSOIL					Brown-Grey Clay LOAM, A-6, very stiff	720.3			
	2		-	13		5		3.86	13
	2					10		B	
	2					13			
Dark Grey Sandy LOAM, little Peat, A-4, slightly dense						25		2.36	14
	1			35		9		B	
	2					13			
	3								
Brown SAND and GRAVEL, A-1, dense						5		2.48	14
	14			10		8		B	
	17					12			
	16								
numerous Cobbles and Boulders						30		3.18	13
	6			8		6			
	14					11		B	
	23					15			
	8			7					
	20								
	26								
Brown-Grey Clay LOAM, A-6, very stiff						35		2.78	13
	7		3.53			6			
	10		B			10		B	
	15					13			
	7		3.84						
	10		B						
	14								
	5		3.98			6		3.59	11
	9		B			9		B	
	16					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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SHEET 2 OF 2

BORING BB-7

Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
Ft		tsf	%	Ft		tsf	%
CONTINUED							
Brown-Grey Clay LOAM, A-6, very stiff							
700.3							
	5						
	9	3.36	13				
	13	B					
45							
Grey SAND (F-m), A-2, medium dense							
694.3							
	3		19				
	5						
	6						
50							
End of Boring @ 50.0'							
690.3							

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

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS I
 ILLINOIS ROUTE 31 OVER CRYSTAL CREEK
 STRUCTURE NO. 056-0077

SHEET NO. SA30 OF SA33 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	490
CONTRACT NO. 60F72				
ILLINOIS FED. AID PROJECT				