

# 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 12/1/08

ROUTE IL. Route 31 at IL. Route 62 BORED BY SPE

SECTION \_\_\_\_\_ STATION 126+45 to 127+90 CHECKED BY WJW

COUNTY <u>McHenry</u>				WATER LEVEL			
BORING <u>BB-9</u>				DURING DRILLING <u>6.0'</u>			
STATION <u>126+45</u>				GROUND WATER			
OFFSET <u>26' L of CL</u>				AT COMPLETION <u>1.0'</u>			
Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
		tsf	%			tsf	%
GROUND SURFACE EL. <u>741.1</u> Ft				GROUTED AT COMPLETION			
Black Silty CLAY/TOPSOIL				Grey Clay LOAM A-6, hard to very stiff <u>721.1</u>			
Brown SAND, A-2, slightly dense <u>740.1</u>							
	2	-	8		6	4.29	13
	2				10	S	
	3				15		
Brown SAND and GRAVEL, A-1, few Cobbles, dense <u>737.1</u>							
	9	-	5		6	3.94	16
	15				9	B	
	38				15		
	12	-	8		6	5.06	15
	15				12	B	
	37				16		
	6	-	12		7	3.48	15
	14				13	B	
	17				18		
Grey SAND, A-2, dense <u>728.1</u>				Grey Sand LOAM seam @ 34.5'			
	19	-	10		6	3.03	14
	24				14	B	
	23				12		
Grey Clay LOAM, A-6, hard <u>725.5</u>							
	8	4.37	13				
	11	S					
	15						
	11	4.29	11		9	4.66	14
	14	S			13	B	
	15				21		
continued				continued			

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.

## BRIDGE FOUNDATION BORING LOG

SHEET 2 OF 2

BORING BB-9

Depth	N/6"	Qu	W	Depth	N/6"	Qu	W
		tsf	%			tsf	%
CONTINUED							
Grey Clay LOAM, A-6 <u>701.1</u>				Grey Dolomite Bedrock, weathered <u>676.1</u>			
Grey SAND (f-m), A-2, loose <u>699.6</u>				End of Boring @ 68.8' Refusal <u>672.3</u>			
	0	-	21		50/3"	-	8
	1						
	1						
	0	-	21				
	1						
	2						
Grey SAND (f-m), A-2, dense <u>689.1</u>							
	10	-	18				
	14						
	17						
Grey SAND (f-c) and GRAVEL, A-1, very dense <u>680.1</u>							
	10	-	14				
	17						
	19						
	34	-	8				
	30						
	45						

I:\2154\cad\sheet\Roadway\20-STRUCTURES & WALLS\01.SN 056-0077\0560077-60F72-32-BL.dgn 4/17/17 PM 5/2/2012



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 III  
 ILLINOIS ROUTE 31 OVER CRYSTAL CREEK  
 STRUCTURE NO. 056-0077

SHEET NO. SA32 OF SA33 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	492
CONTRACT NO. 60F72			ILLINOIS FED. AID PROJECT	