Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 305-2838

SOIL BORING LOG

GSI Job No. 10025
Page 1 of 2
Date 3/22/12

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY NW
SECTION (0707-608&611)HB-B LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-1512
Station 215+55.44
BORING NO. SB-58
Station 214+37
Offset 4.10ft Left
Ground Surface Elev. 605.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 589.0 ft ▼
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				14.5" ASPHALT
604.30				
	4			CLAY to CLAY LOAM-brown &
	4	3.7	19	gray-stiff to hard (Fill)
	5	B		
	5			
	9	4.5	14	
-5	10	P		
	4			
	6	2.5	14	
	6	B		
	5			
	6	1.9	17	
-10	7	B		
595.00				
	7			SILTY CLAY LOAM with
	12	3.0	10	Gravel-brown-medium dense (Fill)
	14	P		
592.50				
	7			GRAVEL & FRACTURED
	22		6	ROCK-gray-medium dense to very
-15	25			dense
				(Apparent Fill)
▼	7			
	12		9	
	7			
	20			
	22		5	
-20	29			
				GRAVEL & FRACTURED
				ROCK-gray-medium dense to very
				dense
				(Apparent Fill) *(continued)*
	5			
	7		5	
	7			
	8			
	8		4	
-25	9			
580.00				
	4			Organic SILTY CLAY-dark
	5	0.3	61	gray-soft
	5	B		
577.50				
	8			SILTY CLAY LOAM-gray-dense
	18	1.8	18	
-30	20	P		
573.50				
	50/2"			GRAVEL-gray-very dense
			7	
-35				
568.50				
	50/1"		9	Clayey SAND, GRAVEL &
-40				FRACTURED ROCK-gray-very
				dense

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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Page 2 of 2
Date 3/22/12

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SECTION (0707-608&611)HB-B LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-1512
Station 215+55.44
BORING NO. SB-58
Station 214+37
Offset 4.10ft Left
Ground Surface Elev. 605.50 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft
Groundwater Elev.:
First Encounter 589.0 ft ▼
Upon Completion n/a ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Clayey SAND, GRAVEL &
				FRACTURED ROCK-gray-very
				dense *(continued)*
	50/5"			
			8	
-45				
557.50				
557.00				Drillers Observation: Apparent bedrock.
				Borehole continued with rock coring.
-50				
-55				
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 2/22/2012
LOGGED BY DR
GSI JOB No. 10025

FAP Rte. 171 (1st Avenue) DESCRIPTION 1st Ave. Bridge Rehabilitation & Replacement, 47th St. to 55th St.
SECTION LOCATION SEC 11, 12, 13 & 14 T 38 N, R 12 E, 3rd PM
COUNTY Cook CORING METHOD Rotary Wash
STRUCT. NO. Ramp E CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station Core Diameter 2.0 in
BORING NO. SB-58 Top of Rock Elev. 557.5
Station 214+37 Begin Core Elev. 557.0
Offset 4.1' Left
Ground Surface Elev. 605.5

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	Description
	1	98.5	84.0+	n/a	335 @ -48.5'	SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
						RUN 1 (-48.5' to -58.5')
						Light gray mottled gray with horizontal bedding. Horizontal fractures @ -49.0', -50.0', -50.9', -52.3', -52.8', -53.9', -54.7', -55.1' & -56.4'.
						Drillers Note: 1.5' of recovery lost due to faulty catcher.
-53.5						
-58.5						

Color pictures of the cores Yes Cores will be stored for examination for –
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FILE NAME = 0161512_60W77_040_Soil_Boring-(SB 58).dgn	USER NAME = ksnider	DESIGNED - KMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS (1 OF 4) STRUCTURE NO. 016-1512	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JHG	REVISED -			373	(0707-608&611)HB-B	COOK	177	156
	PLOT SCALE =	DRAWN - KMS	REVISED -					CONTRACT NO. 60W77		
	PLOT DATE = 6/23/2014	CHECKED - JHG	REVISED -		SHEET NO. SB40 OF SB43 SHEETS			ILLINOIS FED. AID PROJECT		

6/23/2014 10:40:32 AM X:\100000S\10093\Eng_Docs_Phase_II\SN_016-1512_SB_1st_Ave_to_NB_155_over_I55\Final\0161512_60W77_040_Soil_Boring-(SB 58).dgn