Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

GSI Job No. 10025

SOIL BORING LOG

Page 1 of 2

Date 3/26/12

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-61
Station 216+43
Offset 10.20ft Left
Ground Surface Elev. 605.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 589.1 ft ▼
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" ASPHALT					
	603.94				
CLAY LOAM-\brown & gray-stiff to very stiff (Fill)			7		
			6	4.4	15
			5	B	
			8		
			12	4.5	12
		-5	10	P	
			3		
			3	1.3	20
			3	P	
			5		
			8	1.0	20
		-10	4	P	
			3		
			5	4.6	14
			7	B	
	592.10				
FRACTURED STONE & GRAVEL-gray-medium dense (Apparent Fill)			16		
			10		6
		-15	10		
		▼			
			6		
			7		15
			7		
			10		
			12		4
		-20	17		
FRACTURED STONE & GRAVEL-gray-medium dense (Apparent Fill) *(continued)*			18		
			16		8
			15		
	582.10				
Silty SAND & GRAVEL-dark gray-medium dense			14		
			9		24
		-25	10		
	579.60				
SANDY CLAY LOAM with Gravel-gray-very dense			33		
			50/5"		10
	577.10				
CLAY to CLAY LOAM-gray-very stiff			22		
			40	3.5	12
		-30	50/3"	P	
			7		
			17	2.8	24
		-35	22	B	
	568.10				
SANDY LOAM-gray-very dense			27		
			39		19
		-40	50/5"		

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 3/26/12

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COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-1512
Station 215+55.44

BORING NO. SB-61
Station 216+43
Offset 10.20ft Left
Ground Surface Elev. 605.10 ft

Surface Water Elev. n/a ft
Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 589.1 ft ▼
Upon Completion n/a ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM-gray-very dense *(continued)*					
			22		
			29		19
		-45	34		
		-54			
		-59			
	556.60				
Drillers Observation: Apparent bedrock.	556.10		50/1"		
Borehole continued with rock coring.		-50			
		-55			
		-60			

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)

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ROCK CORE LOG

PAGE 1 of 1
DATE 3/26/2012
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
Top of Rock Elev. 556.6
BORING NO. SB-61 Begin Core Elev. 556.1
Station 216+43
Offset 10.2' Left
Ground Surface Elev. 605.1

Description	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−49.0' to −59.0') Light gray becoming mottled gray from −50.5' to −51.5'. Fine grained with horizontal bedding. Horizontal fractures @ −50.5', −51.0', −51.8', −53.0', −53.7', −54.5', −54.9', −55.0', −55.6', −55.9' & −57.7'. Vertical fracture from −58.0' to −59.0'.		1	100.0	78.0	n/a	232 @ -49.0'
	-54					
	-59					

Color pictures of the cores Yes Cores will be stored for examination for —
The "Strength" column represents the unioxial 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_043_Soil_Boring_(SB 61).dgn	USER NAME = ksnider	DESIGNED - KMS	REVISED -
		CHECKED - JHG	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - JHG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (4 OF 4)
STRUCTURE NO. 016–1512
SHEET NO. SB43 OF SB43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	159

CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT

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