



SOIL BORING LOG

GSI Job No. 10025
 Page 1 of 2
 Date 3/15/12

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.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T U R E (%)	DESCRIPTION	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T U R E (%)
016-1512	215+55.44	SB-59	214+75	10.00ft Left	607.40					15.0" ASPHALT				
					606.15	9				CRUSHED STONE-dense to very dense (Fill) (continued)	9			
						8	5.6	17		CLAY LOAM-brown & gray-very stiff to hard (Fill)	13		9	
						6	B				14			
					584.40	7				Silty SAND & GRAVEL-gray-dense to very dense	16			
						9	4.5	12			36		9	
						14	P				50/3"			
						5					9			
						6	4.5	12			14		9	
						7	P				20			
					579.40	10				SAND-gray-dense to very dense	18			
						13	3.3	13			29		21	
						14	P				44			
						-10					-30			
					594.40	8				CRUSHED STONE-dense to very dense (Fill)	18			
						14		5			24		21	
						15	16				29			
						9					35			
						10		2			50/5"			
						9				Clayey SAND, GRAVEL & FRACTURED ROCK-gray-dense to very dense				
						7					50/5"			
						8		9			40		10	
						20					40			

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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						50/4"								
					559.40					Drillers Observation: Apparent bedrock				
					558.90					Borehole continued with rock coring.				
						50								
						55								
						58								
						59								
						60								

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 BBS, from 137 (Rev. 8-99)

Geo Services, Inc.		ROCK CORE LOG		PAGE 1 of 1	
Geotechnical, Environmental & Civil Engineering 805 Amberst Court, Suite 204 Naperville, Illinois 62563 (630) 355-2838				DATE 3/15/2012	
		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-59		Top of Rock Elev. 659.4			
Station 214+75		Begin Core Elev. 658.9			
Offset 10.0' Left					
Ground Surface Elev. 607.4					
D E P T H (ft)	C O R E (#)	R E C O V E R Y (%)	R E C O V E R Y (%)	C O R E L E N G T H (ft)	S T R E N G T H (tsf)
	1	94.0	89.0	n/a	489
					-48.5
SILURIAN SYSTEM, NIAGARA SERIES DOLOMITE					
RUN 1 (-48.5' to -58.5')					
Light gray mottled gray with horizontal bedding. Horizontal fractures @ -49.0', -49.8', -51.0', -52.0', -53.4', -53.8', -54.4', -54.8', -56.1' & -56.6'.					
					-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)

FILE NAME =	USER NAME = ksnider	DESIGNED - KMS	REVISED -
0161512.60W77.041.Soil.Boring.ISB 59.dgn	PLOT SCALE =	CHECKED - JHG	REVISED -
	PLOT DATE = 6/23/2014	DRAWN - KMS	REVISED -
		CHECKED - JHG	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	157
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				