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

SOIL BORING LOG

GSI Job No. 10025
Page 1 of 2
Date 1/4/13

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY RT
SECTION 2013-038B-R LOCATION SW 1/4, SEC. 12, TWP. T38N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0486
Station 30+72.59
BORING NO. SB-12
Station 34+79
Offset 49.40ft Left
Ground Surface Elev. 624.20 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" CONCRETE BRIDGE DECK	623.45				
VOID					
VOID *(continued)*	602.20				
CLAY LOAM-brown & gray-stiff to hard (Fill)			18		
			14 8 8	4.0 P	21
			10		
		-5	12 15 10	3.2 B	20
			9		
			8 7 7	1.5 P	21
			5		
			5 7 7	3.5 P	18
		-10			
CRUSHED STONE-loose to medium dense (Fill)	592.20				
			8		
			9 9		16
		-15			
			6		
			3 4		9
		-20			

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 1/4/13

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY RT
SECTION 2013-038B-R LOCATION SW 1/4, SEC. 12, TWP. T38N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0486
Station 30+72.59
BORING NO. SB-12
Station 34+79
Offset 49.40ft Left
Ground Surface Elev. 624.20 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE-loose to medium dense (Fill) *(continued)*	582.20				
CLAY LOAM-gray-hard					
			15		
			20 24	5.5 B	11
		-45			
			11		
			14 18	6.2 B	16
		-50			
SILT-gray-medium dense to dense	572.20				
			10		
			24 25		22
		-55			
			7		
			11 14		22
		-60			
SILT-gray-medium dense to dense *(continued)*	560.70				
Drillers Observation: Cobbles & boulders				50/0"	
		-65			
Drillers Observation: Apparent bedrock.	557.20				
		-70			
Borehole continued with rock coring.	553.20				
		-75			
		-80			

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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ROCK CORE LOG

PAGE 1 of 1
DATE 1/4/2013
LOGGED BY DR
GSI JOB No. 10025

FAP 373 (IL 171) DESCRIPTION 1st Ave. Bridge Rehabilitation & Replacement, 47th St. to 55th St.
SECTION 2013-038B-R LOCATION SEC 11, 12, 13 & 14 T 38 N, R 12 E, 3rd PM
COUNTY Cook CORING METHOD Rotary Wash
STRUCT. NO. 016-0486 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station 30+72.59 Core Diameter 2.0 in
BORING NO. SB-12 Top of Rock Elev. 557.2
Station 34+79 Begin Core Elev. 555.3
Offset 49.4' Left
Ground Surface Elev. 624.2

Description	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−71.0' to −81.0') Light gray mottled gray with horizontal bedding. Horizontal fractures @ −71.3' & −71.6'. Vertical fracture with intersecting horizontal fractures from −71.6' to −73.1'. Horizontal fractures @ −73.5', −73.6', −73.8', −74.1' & −74.2'. Transverse fracture from −74.6' to −75.3'. Horizontal fractures @ −75.7', −76.7', −76.9', −77.5', −78.0', −78.8' & −80.0'.		1	97.5	52.5	n/a	124 @ −75.5'
	−5					
	−10					

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 = 0160486_60J16_098_Soil Boring Logs 5.dgn	USER NAME = jsurber	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 8/6/2014	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS PIER 9
STRUCTURE NO. 016-0486
SHEET NO. SG98 OF SG100 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	688
		CONTRACT NO. 60J16		
		ILLINOIS FED. AID PROJECT		

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