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 5/4/12

ROUTE FAP 372 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY JZ

SECTION 2013-038B-R LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0483
Station 50+80.50

BORING NO. SB-21
Station 53+52
Offset 47.20ft Left
Ground Surface Elev. 621.70 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 (%)
4.0" ASPHALT, 7.0" CONCRETE BRIDGE DECK	620.78				
VOID		-5			
		-10			
		-15			
		-20			
VOID *(continued)*		-25			
		-30			
		-35			
		-40			
WATER	590.70				
	589.70				
Organic SANDY SILT-black-very loose			6		
			7		44
	588.20		4		
SANDY SILT & GRAVEL-dark brown & gray-very loose			3		
			1	2.8	15
			1	S	
	583.20				
SILTY CLAY LOAM-gray-very dense			11		
			37		16
			48		

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)

Z:\PROJECTS\2010\10025 BENESCH, IL-171 FIRST AVE. (IDOT PTB 154, ITEM 14)\10025 BORING LOGS\10025_LOG.GPJ 11/13/13

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GSI Job No. 10025
Page 2 of 2
Date 5/4/12

ROUTE FAP 372 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY JZ

SECTION 2013-038B-R LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. 016-0483
Station 50+80.50

BORING NO. SB-21
Station 53+52
Offset 47.20ft Left
Ground Surface Elev. 621.70 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 (%)
SILTY CLAY LOAM-gray-very dense *(continued)*					
			50/5"		
					10
	576.70	-45			
Drillers Observation: Apparent bedrock.					
	574.70				
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)

BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

PAGE 1 of 1
DATE 5/4/2012
LOGGED BY RJ
GSI JOB No. 10025

IL Rte. 171, F.A.P. 372 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. SN016-0483 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station 50+80.50 Core Diameter 2.0 in
BORING NO. SB-21 Top of Rock Elev. 576.7
Station 53+52 Begin Core Elev. 574.4
Offset 47.2' Left
Ground Surface Elev. 621.7

Description	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE RUN 1 (−47.0' to −57.0') Light gray with horizontal bedding. Slightly porous with some horizontal fractures.	−52	1	98.0	81.5	n/a	745 @ −47.0'
	−57					

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 =	USER NAME = tjanicke	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
0160483_60J16_046_Soil Boring Logs 5.dgn	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (5 OF 5)
STRUCTURE NO. 016-0483
SHEET NO. SE46 OF SE46 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	530

CONTRACT NO. 60J16
ILLINOIS FED. AID PROJECT

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