



# SOIL BORING LOG

GSI Job No. 10025

Page 1 of 2

Date 1/11/13

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY JZ

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-14  
Station 36+81  
Offset 51.70ft Left  
Ground Surface Elev. 623.20 ft

DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST
(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)
3.0" ASPHALT, 10.0" CONCRETE							
CLAY LOAM-dark brown & gray-stiff to very stiff (Fill)	5 6 6	P 3.5	18	9 10 14	3.5 B	21	
	7 7 7	1.5 P	15	11 14 18	S 3.5 S	15	
	8 7	1.4 B	20	5 6 7	1.8 B	20	
	12	2.2 B	16	10 12	2.0 P	19	
CLAY-brown & gray-very stiff (Fill)	8 8	3.0 B	18	19 26			
	11 13	3.3 B	19	28 39		6	
	8						
	11 13	3.1 B	18				
	8						
	10	3.7 B	15	4 8 7		14	

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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BORING NO. SB-14  
Station 36+81  
Offset 51.70ft Left  
Ground Surface Elev. 623.20 ft

DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST
(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)
CRUSHED STONE-medium dense to very dense (Possible Fill) (continued)							
SAND & GRAVEL-gray-dense				14 18 27			14
				48			
CLAY LOAM-gray-stiff							
				19	2.7 B	13	
SILTY LOAM-gray-very dense							
				19 28 39		16	
FRACTURED ROCK-gray-very dense							
				50/5"			9

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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DATE 1/11/2013

LOGGED BY JK

GSI JOB No. 10025

## ROCK CORE LOG

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-14** Top of Rock Elev. 554.5  
 Station 36+81 Begin Core Elev. 554.5  
 Offset 51.7' Left  
 Ground Surface Elev. 623.2

DEPTH	CORE	RECOVERY	RECORD	CORRECTIVE	STRUCTURE
(ft)	(#)	(%)	(%)	(min)	(ft)
1	94.5	42.5	n/a	318	79.1

SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE  
 RUN 1 (-69.0' to -79.0')  
 Light gray mottled gray with horizontal bedding. Highly fractured with numerous intersecting horizontal & vertical fractures throughout. Some weathered fractures with clay partings.

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 = <u>jsurber</u>	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
		DRAWN - FSM	REVISED -
		CHECKED - RMM	REVISED -

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### SOIL BORING LOGS NORTH ABUTMENT STRUCTURE NO. 016-0486

SHEET NO. SG100 OF SG100 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	690
				CONTRACT NO. 60J16
ILLINOIS FED. AID PROJECT				

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