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

SOIL BORING LOG

PAGE 2 of 2
DATE 5/18/2010
LOGGED BY DR
GSI JOB No. 10024

ROUTE FAP 0307
DESCRIPTION IL 64 Bridge Over Des Plaines River, IDOT Job No. D-91-183-10IL-64
SECTION 541-Y-3
LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-0501
Station 120+43.0
BORING NO. **B-02**
Station: 97+74
Offset: 42.4' Right
Ground Surface Elev. 624.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 616.0
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILT-gray-medium dense to dense (A-4)	582.5				
			12		125
			15 21	4.2B	13
CLAY LOAM-gray-hard (A-6)		-45			
			13		127
			50/5"	8.5B	12
		-50			
			21 50/5"	4.5+P	12
		-55			
Drillers Observation: Apparent Bedrock	568.0				
Silurian System, Niagaran Series Dolomite RUN 1 (-57.5' to -67.5') Light gray to gray, fine grained with horizontal to wavy bedding. Porous & weathered with numerous horizontal & vertical fractures throughout.	567.0	-60	RUN 1		

Recovery=100.0%
R.Q.D.=12.5%

RUN 1

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
		-65			
	557.0				
End Of Boring @ -67.5' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10.0' 4.0"ø Casing Used 60.0' 3.0"ø Casing Used CME Automatic Hammer		-70			
		-75			
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Peretrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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

ROCK CORE LOG

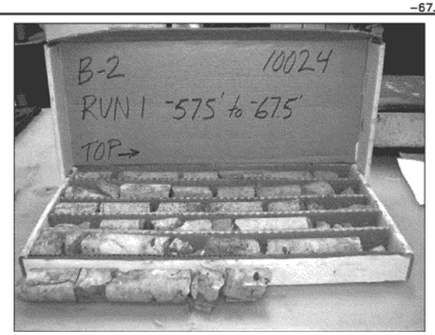
PAGE 1 of 1
DATE 5/18/2010
LOGGED BY DR
GSI JOB No. 10024

ROUTE FAP 0307
DESCRIPTION IL 64 Bridge Over Des Plaines River, IDOT Job No. D-91-183-10IL-64
SECTION 541-Y-3
LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
COUNTY Cook
CORING METHOD Rotary Wash

STRUCT. NO. 016-0501
Station 120+43.0
BORING NO. **B-02**
Station: 97+74
Offset: 42.4' Right
Ground Surface Elev. 624.5

CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
Core Diameter 2.0 in
Top of Rock Elev. 567.0
Begin Core Elev. 568.0

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Silurian System, Niagaran Series Dolomite RUN 1 (-57.5' to -67.5')	568.0		1	100.0	12.5	n/a	8720 64.5'
Light gray to gray, fine grained with horizontal to wavy bedding. Porous & weathered with numerous horizontal & vertical fractures throughout.		-62.5					
		-67.5					



Color pictures of the cores XX Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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

SOIL BORING LOG

PAGE 1 of 2
DATE 5/27/2010
LOGGED BY DR
GSI JOB No. 10024

ROUTE FAP 0307
DESCRIPTION IL 64 Bridge Over Des Plaines River, IDOT Job No. D-91-183-10IL-64
SECTION 541-Y-3
LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-0501
Station 120+43.0
BORING NO. **B-03**
Station: 98+42
Offset: 43.2' Left
Ground Surface Elev. 624.8

Surface Water Elev. 610.3
Stream Bed Elev. 607.8
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" Bridge Deck	623.8				
Air		-5			
		-10			
	610.3				
Water		-15			
	607.8				
CRUSHED STONE-loose to medium dense (Fill)		-20	7 18 4 3 1 3	NP	13

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED STONE-loose to medium dense (Fill)	603.8		8 3	-	34
SILTY CLAY LOAM-dark gray to black-medium dense (Fill)	601.8		9 15		126
			12 12	4.0B	13
			6 7		107
		-25	7 6	2.75P	21
CLAY-gray-very stiff to hard (A-6)			4 6		106
			11 12	4.5P	22
		-30	4 7 11	3.75P	20
	592.8				
SILTY LOAM-gray-dense (A-4)		-35	5 13 17	NP	19
		-40	5 13 17	NP	17

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

FILE NAME = W:\191-138 IDOT IL 64\CADD Sheets\structural\D160J11-sht-46 SoilBoringLogs II.dgn

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

USER NAME =	DESIGNED - JMT	REVISED	
	CHECKED - JJI	REVISED	
PLOT SCALE =	DRAWN - GM	REVISED	
PLOT DATE = 8/15/2013	CHECKED - JJI	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS II
STRUCTURE NO. 016-3035
SHEET NO. 57 OF 62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	541Y-3-B	COOK	143	118

CONTRACT NO. 60J11
ILLINOIS FED. AID PROJECT