STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROCK CORE LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 200
Naperville, Illinois 60563
(630) 355-7878

PAGE 1 of 1
DATE 10/1/08
LOGGED BY DR
JOB NUMBER P-91-186-08
GSI JOB No. 08015
ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION I-57 Over I-294
COUNTY Cook
CORING METHOD Rotary Wash
STRUCT. NO. 016-1096 & 016-1097
Station –
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 574.9
Begin Core Elev. 574.9
BORING NO. I57-I294 B-10
Station: 259+88
Offset: 71.0' Right
Ground Surface Elev. 635.4

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
574.9	1	98.9	88.4	n/a	1206@ -60.5'

Run 1 (-60.5' to -70.0')
Silurian System Niagaran Series Dolomite

Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fractures -61.3', -61.5', -61.9', -62.4', -62.5', -63.2', -63.3', -64.1', -64.4', -65.1', -65.6' & -69.5'.

100.0% Water Loss

-65.5

-70.5

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)

SOIL BORING LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 200
Naperville, Illinois 60563
(630) 355-7878

PAGE 1 of 2
DATE 11/3/2008
LOGGED BY RJ
JOB NUMBER P-91-186-08
GSI JOB No. 08015
ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION I-57/I-294 RAMP B Fly-Over Bridge
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary
HAMMER TYPE CME Automatic
STRUCT. NO. –
Station –
BORING NO. RMP B B-8
Station: 258+24
Offset: 85.0' Left
Ground Surface Elev. 614.1

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
614.1			
10.0" ASPHALT, 26.0" CRUSHED STONE-medium dense	17		
	9		
	9	NP	5
611.1			
	4		
	6		
-5	6	4.0P	17
CLAY-brown & gray-hard (A-6) Fill			
	5		116
	12		
	15	6.9B	15
	5		
	8		
-10	8	4.5P+	19
603.6			
	3		
	5		
SILTY CLAY LOAM-brown & gray-loose to medium dense (A-4)	5	4.0P	23
	3		
	2		
-15	2	–	28
598.6			
SILTY LOAM-gray-loose (A-4)	2		
	3		
	6	–	26
596.1			
SAND-gray-loose (A-3)	3		
	2		
-20	6	NP	22

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-gray-loose (A-3) 593.6			
CLAY-gray-stiff (A-6) Wet	3		100
	5		
	8	1.2B	25
591.1			
SILT-gray-dense (A-4)	10		
	15		
-25	19	NP	16
	506"		
		NP	13
586.1			
SILTY LOAM with Fractured Rock-gray-very dense (A-4)	30		
	37		
-30	43	NP	11
	10		
	15		
-35	23	NP	11
575.1	37		
Drillers Observation: Apparent Bedrock.	43		
-40	46	NP	14

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

SOIL BORING LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 200
Naperville, Illinois 60563
(630) 355-7878

PAGE 2 of 2
DATE 11/3/2008
LOGGED BY RJ
JOB NUMBER P-91-186-08
GSI JOB No. 08015
ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION I-57/I-294 RAMP B Fly-Over Bridge
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary
HAMMER TYPE CME Automatic
STRUCT. NO. –
Station –
BORING NO. RMP B B-8
Station: 258+24
Offset: 85.0' Left
Ground Surface Elev. 614.1

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Drillers Observation: Apparent Bedrock.			
572.1			
RUN 1 (-42.0' to -51.0') Silurian System Niagaran Series Dolomite			
Light gray mottled gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -42.4', -42.6', -42.8', -43.2', -47.5' & -47.8'.			
-45			
Recovery=99.4% R.Q.D.=87.2%			
		RUN 1	
-50			
563.1			
End Of Boring @ -51.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' of 4.0"* Casing Used			
-55			
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-65			
-70			
-75			
-80			

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

P:\60254015(7-294)\STRUCTURAL\I-57 OVER 1294\016125I-60J27-067-BORING11.dgn

BORING LOGS 11
STRUCTURE NO. 016-1251

TYLIN INTERNATIONAL

DESIGNED -	JMA
CHECKED -	SP.
DRAWN -	JMA
CHECKED -	SP,PDF
DATE -	03/18/10

REVISIONS	
NAME	DATE

SHEET NO. 67
68 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1414.2B	COOK	516	312
		CONTRACT NO. 60J27		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

3/17/2010