STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROCK CORE LOG

PAGE 1 of 1

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ambiger Court, Suite 200
Naperville, Illinois 60563
(630) 369-2648

DATE 9/18/2008
LOGGED BY MD
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
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station –
Core Diameter 2.0 in
Top of Rock Elev. 578.0
BORING NO. I57-I294 B-9
Begin Core Elev. 576.0
Station: 260+15
Offset: 6.0' Right
Ground Surface Elev. 636.0

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
576.0	1	93.0	47.0	n/a	859@ -61.2'
-60					
-70					

Run 1 (-60.0' to -70.0')
Silurian System Niagaran Series Dolomite

Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -60.3', -60.8', -60.9', -61.1', -62.0' & -62.3'. Vertical fracture from -62.3' to -62.8'. Horizontal fractures @ - 62.9', -63.3', -63.4', -63.9', -64.2', -65.9', -66.1', -66.2', -67.2', -67.6' & -67.9'. 1.5" clay parting @ -68.4'. Horizontal fracture @ -68.9'.

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

PAGE 1 of 2

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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
DRILLING METHOD 3.25" Hollow Stem Auger
HAMMER TYPE CME Automatic
STRUCT. NO. 016-1096 & 016-1097
Station –
BORING NO. I57-I294 B-10
Station: 259+88
Offset: 71.0' Right
Ground Surface Elev. 635.4

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 (%)
633.9	13		
	3		
	6	3.5P	14
	3		113
-5	3		
	5	4.3B	16
	6		
	6		
	6	4.5+P	14
	3		
	4		
-10	5	4.5+P	15
	4		
	5		
	5	2.25P	15
	45		
	9		
-15	6	2.0P	21
	3		110
	5		
	7	2.2B	18
	3		114
	5		
-20	6	5.0B	14

17.0" ASPHALT, 2.0" CRUSHED STONE

CLAY to CLAY LOAM-dark brown & gray-very stiff to hard (A-6) Fill

CLAY to CLAY LOAM-dark brown & gray-very stiff to hard (A-6) Fill

SILTY LOAM to LOAM-gray-medium dense to dense (A-4)

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
	3		111
	3		
	7	4.6B	17
	3		
	6		
-25	7	2.0P	17
	5		108
	8		
607.4	11	2.1B	18
	7		
	11		
-30	13	NP	13
	3		
	4		
-35	6	NP	25
	11		
	20		
595.4 -40	21	NP	12

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

PAGE 2 of 2

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DATE 10/1/08
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SECTION –
LOCATION I-57 Over I-294
COUNTY Cook
DRILLING METHOD 3.25" Hollow Stem Auger
HAMMER TYPE CME Automatic
STRUCT. NO. 016-1096 & 016-1097
Station –
BORING NO. I57-I294 B-10
Station: 259+88
Offset: 71.0' Right
Ground Surface Elev. 635.4

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 (%)
	505"		
-45		NP	9
	30		
	505"		
-50		NP	11
583.4			
	24		
	27		
-55	24	NP	10
	42		
	504"		
-60		NP	9

SILTY LOAM with Fractured Rock-gray-very dense (A-4)

SANDY LOAM with Fractured Rock-gray-dense to very dense (A-2)

...continued 574.9

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'.

Recovery = 98.9%
R.Q.D. = 88.4%

100.0% Water Loss

565.4 -70

End Of Boring @ -70.0'
Straight Flight Augers To -10.0'
Rotary Drilling To Completion
CME Automatic Hammer
10.0' 4.0"ø Casing Used
60.0' 3.0"ø Casing Used

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
-65			RUN 1
-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:\60254007(57-294)\STRUCTURAL\I-57 OVER I294\016125I-60J27-066-BORING10.dgn

BORING LOGS 10
STRUCTURE NO. 016-1251

TYLIN INTERNATIONAL

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

SHEET NO. 66
68 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1414.2B	COOK	516	311
		CONTRACT NO. 60J27		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

3/17/2010