

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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SOIL BORING LOG

DATE 10/21/2008
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-57I-294 Ramp C Fly-Over Bridge
COUNTY Cook DRILLING METHOD Straight Flight Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station -
BORING NO. **RMP C B-21**
Station: 1260+91 (I-57)
Offset: 5.0' Right
Ground Surface Elev. 634.7

D E P T H (ft)	B L O W S (6")	U C S (tsf)	M O S T (%)	Surface Water Elev.		Stream Bed Elev.		Groundwater Elevation:		D E P T H (ft)	B L O W S (6")	U C S (tsf)	M O S T (%)
				n/a	n/a	n/a	n/a	First Encounter	Upon Completion				
3										6			107
4										8			
5	3.0P	15								9	3.2B	21	
CLAY-brown & gray-very stiff to hard (A-6) Fill													
2										4			104
3										5	3.0S@		
-5	8	2.5P	19							-25	8	14.1%	21
CLAY-brown & gray-very stiff to hard (A-6) Fill													
4										4			105
4										5			
8										8	6.0B	19	
4										5			105
6										6			
-10	8	4.5+P	20							-30	7	3.3B	20
4													
7													602.7
10	1.5P	27											
4													109
8													
-15	10	4.1B	19							-35	10	NP	25
SILTY LOAM-gray-medium dense (A-4)													
3													107
5													
7	3.4B	21											597.7
5													112
5													
-20	8	4.3B	19							-40	39	4.5+P	9
CLAY LOAM-gray-hard (A-6)													

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

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CLAY LOAM-gray-hard (A-6)													
RUN 1 (-58.5' to -68.5') Silurian System Niagaran Series Dolomite													
Light gray mottled gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -60.0, -60.3, -62.25, -62.6', -62.7, -63.4', -63.6 & -64.0'. Vertical with intersecting horizontal fractures from -64.0' to -64.7'. Horizontal fractures @ -65.0', -65.7' & -66.2'. Vertical fracture with intersecting horizontal fractures from -66.6' to -67.4'. Horizontal fracture @ -67.8'.													
Recovery = 96.0% R.Q.D. = 68.75%													
End Of Boring @ -68.5' Straight Flight Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' of 4.0" Casing Used 58.5' of 3.0" Casing Used													
RUN 1													
Drillers Observation: Apparent Bedrock													
RUN 1 (-58.5' to -68.5') Silurian System Niagaran Series Dolomite													

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BORING LOGS 5
S.N. 016-1252

TYLIN INTERNATIONAL	DESIGNED - DY	REVISIONS		SHEET NO. 61	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CHECKED - AD,LS	NAME	DATE		57	1414.2B	COOK	516	374	
	DRAWN - DY,EI				62 SHEETS					
	CHECKED - LS,SP,PDF				CONTRACT NO. 60J27					
	DATE - 03/18/10				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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