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SOIL BORING LOG

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

DATE 10/6-7/2010
LOGGED BY DR
GSI JOB No. 09172

ROUTE FAP 349 (US 30) DESCRIPTION US 30 from west of IL 31 to east of Burlington Northern Railroad
SECTION (10 & 11 VB) R-3 LOCATION Section 32, T. 38 N., R. 8 E., Aurora Township, 3rd P.M.
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. SN 045-0039
Station 12171+21.00
BORING NO. SB-18
Station: 1272+81
Offset: 36.5' Left
Ground Surface Elev. 641.5

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOIST (%)	DEPT (ft)	BLOW COUNT (/6")	UCS (tsf)	MOIST (%)
0				0			
4	AS	-	6	4			6
3				8			8
4	1.75P	25		13	NP		18
6				5			5
9				5			5
5	13	NP	6	25	5	NP	11
15				5			5
27				7			7
41	NP		4	7	NP		9
26				13			13
50/5"				13			13
10	NP		6	30	17	NP	9
50/5"							
	NP		3				
18				29			29
15				35			35
626.5	15	NP	5	35	50	NP	9
5							
3							
4	1.75P	25					
5				25			25
10				20			20
9	NP		17	40	24	NP	14

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 626.5
Upon Completion n/a
After Hrs. n/a

8.0" SANDY TOPSOIL-black
SILTY CLAY-brown-stiff (A-6)
SILT-gray-medium dense (A-4)
SAND & GRAVEL-brown-medium dense to very dense (A-1)
SANDY LOAM with Fractured Rock-gray-medium dense to very dense (A-2)
SILTY CLAY-gray-stiff (A-4/A-6) Wet
SILT-gray-medium dense (A-4)

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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DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOIST (%)	DEPT (ft)	BLOW COUNT (/6")	UCS (tsf)	MOIST (%)
0				0			
20'							
50'							
18				18			18
19				19			19
45	48	NP	16	45	48	NP	16
596.0							
593.5							
50				50			50
55				55			55
583.5							
60				60			60

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 626.5
Upon Completion n/a
After Hrs. n/a

20' of 5"Ø Casing Used
50' of 3"Ø Casing Used
SANDY LOAM with Fractured Rock-gray-medium dense to very dense (A-2)
Drillers Observation: Apparent Bedrock
RUN 1 (-48.0' to -58.0')
Silurian System, Niagaran Series Dolomite
Light gray mottled gray with horizontal to wavy bedding. Soft & argillaceous with clay partings from -48.4' to -48.8' & -57.8' to -58.0'.
Recovery=97.5%
R.Q.D.=5.7%

End Of Boring @ -58.0'
Hollow Stem Augers To -20.0'
Rotary Drilling To Completion
CME Automatic Hammer

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NR-No Recovery

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USER NAME =	DESIGNED - J.J.G. 6/15/2012	REVISED -
PLOT SCALE =	CHECKED - J.A.Z. 6/15/2012	REVISED -
PLOT DATE =	DRAWN - D.L.G. 6/15/2012	REVISED -
	CHECKED - E.E.J. 6/15/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG, SB-18
STRUCTURE NO. 045-0039**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	330
CONTRACT NO. 60133				
ILLINOIS FED. AID PROJECT				

SHEET NO. 5109 OF 116 SHEETS