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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 10/5-6/2010  
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-08**  
Station: 1270+34  
Offset: 36.5' Left  
Ground Surface Elev. 640.0

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
				Surface Water Elev. <u>n/a</u>				
				Stream Bed Elev. <u>n/a</u>				
				Groundwater Elevation:				
				First Encounter <u>630.0</u>				
				Upon Completion <u>n/a</u>				
				After _____ Hrs. _____				
				SANDY LOAM to LOAM-gray (A-4) <u>619.5</u>				
				AS - 13				
				5				
				TOPSOIL with Gravel & Stone-black (Fill)				
				5				
				11				
				3				
				4				
				5				
				7				
				1.5P 26				
				SANDY LOAM with Fractured Rock-gray-very dense (A-2)				
				634.5				
				10				
				12				
				25				
				NP 10				
				SAND & GRAVEL-brown-dense to very dense (A-1)				
				30				
				50/5"				
				630.0 -10				
				NP 7				
				SAND & GRAVEL-gray-medium dense (A-1)				
				18				
				21				
				6				
				NP 7				
				627.0				
				6				
				10				
				15				
				20				
				NP 10				
				SAND, GRAVEL & FRACTURED ROCK-gray-very dense (A-1)				
				54				
				50/3"				
				608.0				
				35				
				NP 9				
				SANDY LOAM to LOAM-gray-medium dense to very dense (A-4)				
				7				
				11				
				24				
				NP 10				
				603.0				
				5				
				SANDY LOAM with Fractured Rock-gray-very dense (A-2)				
				26				
				45				
				40				
				30				
				NP 11				
				20				
				22				
				NP 10				

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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Ground Surface Elev. 640.0

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
				Surface Water Elev. <u>n/a</u>				
				Stream Bed Elev. <u>n/a</u>				
				Groundwater Elevation:				
				First Encounter <u>630.0</u>				
				Upon Completion <u>n/a</u>				
				After _____ Hrs. _____				
				SANDY LOAM with Fractured Rock-gray-very dense (A-2)				
				598.0				
				LOAM-gray-very dense (A-4)				
				596.0				
				50/5"				
				Drillers Observation: Apparent Bedrock				
				595.0 -45				
				NP 14				
				-65				
				RUN 1 (-45.0' to -55.0')				
				Silurian System, Niagaran Series Dolomite				
				Light gray mottled gray with horizontal to wavy bedding. Soft & argillaceous with numerous clay & shale partings from -47.0' to -55.0'.				
				Recovery=100.0%				
				R.Q.D.=37.5%				
				-50				
				RUN 1				
				-70				
				585.0 -55				
				-75				
				End Of Boring @ -55.0'				
				Hollow Stem Augers To -20.0'				
				Rotary Drilling To Completion				
				CME Automatic Hammer				
				20' of 5"Ø Casing Used				
				47' of 3"Ø Casing Used				
				-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  
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NR-No Recovery

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG, SB-8  
STRUCTURE NO. 045-0039**

SHEET NO. 597 OF 116 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	318
CONTRACT NO. 60133				
ILLINOIS FED. AID PROJECT				