

PAGE 1 of 2
DATE 11/5/2010
LOGGED BY DR
GSI JOB No. 09172

SOIL BORING LOG

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

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-13**
Station: 1271+71
Offset: 36.5' Right
Ground Surface Elev. 638.4

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOIST (%)
				Surface Water Elev. <u>n/a</u>				
				Stream Bed Elev. <u>n/a</u>				
				Groundwater Elevation:				
				First Encounter <u>627.4</u> ▼				
				Upon Completion <u>n/a</u> ▼				
				After _____ Hrs. _____ ▼				
7	AS	NP	3	SILTY SAND, GRAVEL & STONE- black-medium dense (Fill)	11			
8			16					
7	NP	6	18		NP	8		
6				SAND & GRAVEL-gray- medium dense to dense (A-1)	12			
17			14					
-5	NP	4	-25		NP	11		
14				Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense (A-2)	30			
27			50/6"					
22	NP	5			NP	11		
10				SAND & GRAVEL-brown & gray- medium dense to dense (A-1)	50/3"			
22								
-10	NP	6	-30		NP	11		
15				FRACTURED ROCK-gray- dense to very dense (A-1)				
8								
10	NP	9						
8				Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense (A-2)	50/3"			
10								
-15	NP	9	-35			NR		
10				SAND & GRAVEL-gray- medium dense to dense (A-1)				
10								
15	NP	9						
8				SAND & GRAVEL-gray- medium dense to dense (A-1)	50/6"			
10								
-20	NP	11	-40		NP	11		

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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				Surface Water Elev. <u>n/a</u>				
				Stream Bed Elev. <u>n/a</u>				
				Groundwater Elevation:				
				First Encounter <u>627.4</u> ▼				
				Upon Completion <u>n/a</u> ▼				
				After _____ Hrs. _____ ▼				
597.4				Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense (A-2)				
				Drillers Observation: Apparent Bedrock.				
594.9								
-45				RUN 1 (-43.5' to -53.5') Silurian System, Niagaran Series Dolomite				
				Brownish gray to gray with horizontal to wavy bedding. Soft & argillaceous with numerous weathered horizontal fractures clay partings throughout.				
				Recovery=97.5% R.Q.D.=49.0%				
-50								
584.9								
-55				End Of Boring @ -53.5' Hollow Stem Augers To -20.0' Rotary Drilling To Completion CME Automatic Hammer 20.0' of 5.0" Casing Used.				
-60								

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-13
STRUCTURE NO. 045-0039**

SHEET NO. 5105 OF 116 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	326
CONTRACT NO. 60133				
ILLINOIS FED. AID PROJECT				