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

SOIL BORING LOG

PAGE 1 of 2
DATE 10/20/2010
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-20**
Station: 1273+51
Offset: 36.5' Left
Ground Surface Elev. 644.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 627.5
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				6.0" ASPHALT, 6.0" SAND & GRAVEL
643.5				
	2			
	3			TOPSOIL-black
	5	1.0P	28	
641.5				
	8			
	11			
-5	16	NP	5	
	9			
	17			
	17	NP	4	
	15			SAND & GRAVEL-brown-
	15			medium dense to dense (A-1)
-10	19	NP	5	
	34			
	14			
	17	NP	4	
	7			
	9			
-15	10	NP	7	
	13			
	14			
	14	NP	7	
	26			
	16			
-20	16	NP	11	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SAND & GRAVEL-brown (A-1)
624.0				
	6		121	
	8			CLAY LOAM-gray-very stiff (A-6)
	13	2.3B	15	
621.5				
	8		127	
	10			SILTY CLAY LOAM-gray-
-25	10	0.8B	12	medium dense (A-4)
619.0				
	13			
	19			
	31	NP	7	
	19			FRACTURED ROCK-gray-
	23			dense to very dense (A-1)
-30	20	NP	8	
	16			
	50/3"			
-35		NP	10	
	50/3"			
-40		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

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Stream Bed Elev. n/a
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Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				FRACTURED ROCK-gray-
				dense to very dense (A-1)
	50/2"			
599.5	-45		NP	4
				Drillers Observation: Possible Bedrock
597.5				
				End Of Boring @ -47.0'
				Hollow Stem Augers To -20.0'
				Rotary Drilling To Completion
				CME Automatic Hammer
				20' of 5"ø Casing Used
-50				
-55				
-60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-65			
-70			
-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
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GRAEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631; (773) 399-0112

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-20
STRUCTURE NO. 045-0039
SHEET NO. S113 OF 116 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	334
		CONTRACT NO. 60133		
	ILLINOIS FED. AID PROJECT			