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 11/16/2010
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 HAMMER TYPE CME Automatic
STRUCT. NO. SN 045-0039
Station 12171+21.00
BORING NO. **SB-21**
Station: 1274+22
Offset: 21.5' Right
Ground Surface Elev. 668.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 627.2
Upon Completion 628.2
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
667.0				14.0" CONCRETE
	9			
	21			CRUSHED ASPHALT & STONE-
	15	NP	9	dense (Fill)
665.2				
	50/5"			SAND & GRAVEL-brown-
663.2 -5		NP	6	very dense (A-1) Fill
	3		*103*	
	5			
	8	1.8B	24	SILTY CLAY-dark brown & gray-
	2			stiff to very stiff (A-6) Fill
	2			
-10	3	1.5P	23	
	3		*98*	SAND & GRAVEL-brown-
	4			medium dense to very dense (A-1)
	7	2.75B	24	
	3		*104*	
	5			
-15	8	1.8B	20	
652.7				
	2			
	6			
	12	1.0P	15	CLAY LOAM with Gravel-dark brown-
				stiff to very stiff (A-6) Fill
	3			
	6			
-20	10	3.5P	18	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	13			
	13			CLAY LOAM with Gravel-dark brown-
	22	-	7	stiff to very stiff (A-6) Fill
	3			
	5			
-25	6	-	11	
642.7				
	15			
	11			
	13	NP	4	
	13			
	15			
-30	16		NR	
				SAND & GRAVEL-brown-
				medium dense to very dense (A-1)
	15			
	16			
-35	8	NP	2	
	30			
	29			
-40	17	NP	5	

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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Station 12171+21.00
BORING NO. **SB-21**
Station: 1274+22
Offset: 21.5' Right
Ground Surface Elev. 668.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 627.2
Upon Completion 628.2
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	4			SAND & GRAVEL-brown-
	50/5"			medium dense to very dense (A-1)
-45		NP	11	
621.2				
	5			
	6			Silty SAND & GRAVEL-brown-
-50	8	NP	8	medium dense to dense (A-2)
616.2				
	5			
	7			
-55	14	NP	8	SANDY LOAM with Fractured Rock-
				gray-dense (A-2)
	18			
	20			
-60	21	NP	9	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	16			SANDY LOAM with Fractured Rock-
	15			gray-dense (A-2)
603.2 -65	22	NP	10	
				End Of Boring @ -65.0'
				Hollow Stem Augers
				CME Automatic Hammer
-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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NR-No Recovery

GRāEF
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-21
STRUCTURE NO. 045-0039
SHEET NO. S114 OF 116 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	335
		CONTRACT NO. 60I33		
	ILLINOIS FED. AID PROJECT			

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