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

SOIL BORING LOG

DATE 6/20/2012
LOGGED BY DR
GSI JOB No. 09174

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. ---
Station ---
BORING NO. **BS-14**
Station 278+77
Offset 45.6' Left
Ground Surface Elev. 627.0

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry To 10.0'
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
626.3				Clayey TOPSOIL–dark brown to black
	AS	–	18	
	4			SILTY SAND & CINDERS–black–medium dense (Fill)
	7			
	12	NP	15	
624.0				
	2		*100*	CLAY–brown & gray–very stiff (A–6)
	4			
–5	5	3.0B	25	
621.5				
	2			SANDY LOAM–brown & gray–very loose (A–2)
	1			
	1	NP	18	
619.0				
	1			SANDY LOAM–gray–loose (A–2)
	2			
–10	5	NP	19	
616.5				
	4			SILT–gray–medium dense (A–4)
	5			
	7	NP	24	
614.0				
	3			SILTY CLAY LOAM–gray–loose to medium dense (A–4)
	4			
–15	6	1.5P	23	
	2			
	3			
	4	1.75P	23	
609.0				
	2		*99*	SILTY CLAY–gray–stiff (A–6)
	4			
–20	4	1.0B	26	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	3		*105*	SILTY CLAY–gray–stiff (A–6)
	4			
	9	1.4B	22	
604.0				
	2		*108*	
	3			
–25	8	0.6B	21	SILTY CLAY LOAM–gray–medium stiff (A–4/A–6)
	2		*104*	
	3			
	4	0.7B	23	
599.0				
	1			CLAY–gray–stiff (A–6) Wet
	3			
–30	3	1.5P	29	
	1			
	2			
–35	7	1.0P	25	
590.0				
	5			SAND–gray–medium dense (A–3)
	9			
–40	13	NP	23	

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
Groundwater Elevation:
First Encounter Dry To 10.0'
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SAND–gray–medium dense (A–3)
	7			
	8			
–45	13	NP	20	
580.0				
	7			SAND & GRAVEL–gray–medium dense (A–1)
	5			
–50	6	NP	19	
	6			
	5			
–55	5	NP	19	
570.0				
	13			SANDY LOAM–gray–dense (A–2)
	18			
–60	16	NP	24	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SANDY LOAM–gray–dense (A–2)
	13			
	13			
–65	20	NP	25	
560.0				
	10			SAND–gray–medium dense (A–3)
	13			
–70	16	NP	20	
	7			
	8			
–75	13	NP	19	
550.0				
	16			SILT–gray–dense (A–4)
	16			
–80	20	NP	20	

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First Encounter Dry To 10.0'
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SILT–gray–dense (A–4)
	15			
	14			
–85	17	NP	21	
	7			
	14			
–90	17	NP	20	
535.0				
	4		*100*	CLAY–gray–stiff to very stiff (A–6)
	10			
–95	11	1.2B	24	
	5		*109*	
	10			
–100	14	2.8B	20	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	8			CLAY–gray–stiff to very stiff (A–6)
	26			
–105	27	2.75P	18	
520.0				
	35			SILTY SAND & GRAVEL–gray–very dense (A–2)
	50/3"			
–110		NP	16	
	50/4"			
–115		NP	12	
511.5				
				Drillers Observation: Apparent Bedrock. 511.0
				Silurian System, Niagaran Series Dolomite RUN 1 (–116.0' to –126.0')
				Gray & fine grained with horizontal bedding becoming light gray mottled gray & porous @ –122.2'. Horizontal fractures @ –120.2', –120.3', –120.4', –120.9', –121.4', –121.5', –122.0', –122.2', –122.6', –124.0' & –124.5'. RUN 1
–120				

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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V3 Companies of Illinois Ltd.
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

USER NAME =	DESIGNED - EVS	REVISED
	CHECKED - WJV	REVISED
PLOT SCALE =	DRAWN - EVS	REVISED
PLOT DATE =	CHECKED - WJV	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016–1279
SHEET NO. 27 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	247
		CONTRACT NO. 60R19		
	ILLINOIS	FED. AID PROJECT		