

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

SOIL BORING LOG PAGE 1 of 4
DATE 1/24-25/2012
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 Diedrich Automatic

STRUCT. NO. ---
Station ---
BORING NO. **BS-06**
Station 279+75
Offset 22.5' Right
Ground Surface Elev. 632.5

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
AS	-	-	28	Sandy TOPSOIL with Cinders-black-loose (Fill)	2	101		
4	3			SILTY CLAY LOAM-gray-loose (A-4)	2			
3			23		4	0.8B	25	
629.0					609.5			
3	89			SILT-gray-loose (A-4)	2			
4					3			
-5	5	1,258	25		-25	5	NP	23
626.5					607.0			
2				SILTY CLAY LOAM-gray-loose (A-4)	2	106		
4					3	0.5B	22	
4	NP	24			604.5			
622.0								
2				SILTY LOAM-gray-loose (A-4)	2			
2					2			
-10	3	NP	25		-30	4	2.0P	21
622.0								
3				SILTY LOAM-gray-loose (A-4)	3			
4					4			
4	NP	26			619.5			
619.5								
2				SILTY CLAY-gray-very stiff (A-6)	2			
2					3			
-15	3	2.0P	24		-35	5	1.25P	22
617.0								
1				SILTY LOAM-gray-loose (A-4)	1			
2					2			
3	NP	21			595.5			
614.5								
2				SAND-gray-medium dense (A-3)	7			
3					10			
-20	5	1,258	27		-40	11	NP	21

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S 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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8				SANDY LOAM-gray-medium dense to dense (A-2)	8			
10					12			
-45	11	NP	24	SAND-gray-medium dense (A-3)	-65	14	NP	26
565.5								
5				SILTY LOAM-gray-medium dense (A-4)	6	101		
5					6			
-50	6	NP	22	Some gravel from -48.5' to -50.0'	-70	8	NP	22
560.5								
5				SAND & GRAVEL-gray-medium dense (A-1)	5			
12					11			
-55	7	NP	27		-75	9	NP	16
575.5					555.5			
12				SANDY LOAM-gray-medium dense to dense (A-2)	12			
15					19			
-60	17	NP	27		-80	19	NP	19

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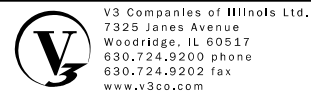
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10				CLAY-gray-stiff to very stiff (A-6)	21	121		
16					50/6"			
-85	16	NP	20	SILT-gray-dense (A-4)	-105	1.3B	13	
545.5					525.5			
8				SANDY CLAY LOAM-gray-very dense (A-2/A-6)	31			
8					50/4"			
-90	11	2.4B	25		-110	4.5+P	10	
577.5-115				SILTY CLAY LOAM-gray-very dense (A-4/A-6)				
4				CLAY-gray-stiff to very stiff (A-6)	50/6"			
7								
-95	11	2.75B	22		517.5-115	4.5+P	11	
576.5								
11				Drillers Observation: Apparent Bedrock				
14				Silurian System, Niagaran Series Dolomite RUN 1 (-116.0' to -124.0')				
-100	14	1.9B	18	Gray & fine grained with horizontal bedding becoming light gray mottled gray with horizontal to wavy bedding				
				gray with horizontal to wavy bedding				
				Horizontal fractures @ -116.1', -119.9', -116.7', -117.4', -120.3', -121.3', -122.5', -122.7', -123.0' & -123.6'				

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016-1279

SHEET NO. 22 OF 35 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	242
CONTRACT NO. 60R19				
ILLINOIS FED. AID PROJECT				