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 1/18/2012
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. 016-1280
Station --
BORING NO. **RW-23**
Station 283+75
Offset 44.0' Left
Ground Surface Elev. 629.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 623.6
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" TOPSOIL-black	628.7		AS	–	32
SILTY CLAY-dark brown & gray-stiff to very stiff (A-6) Wet			3		*94*
			4		
			5	2.4B	26
			3		*91*
			3	1.4S@	
		-5	4	14.1%	27
▼623.6					
SAND-brown-loose (A-3)			3		
			4		
			5	NP	20
	621.6				
SILTY LOAM-gray-medium dense (A-4)			3		
			5		
		-10	5	NP	20
	619.1				
SANDY LOAM-gray-medium dense (A-2)			3		
			5		
			6	NP	21
			5		
			6		
		-15	6	NP	17
	614.1				
SILTY LOAM-gray-loose (A-4)			3		
			3		
			4	NP	24
			2		
			2		
		-20	3	NP	22
SILTY LOAM-gray-loose (A-4)					
			3		
			3		
			3	NP	21
			2		
			2		
		-25	3	NP	22
			3		
			3		
			3	NP	24
			2		
			2		
		-30	3	NP	25
	597.6				
SAND-gray-medium dense to dense (A-3)			7		
			11		
		-35	13	NP	21
			8		
			10		
		-40	11	NP	25

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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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. 016-1280
Station --
BORING NO. **RW-23**
Station 283+75
Offset 44.0' Left
Ground Surface Elev. 629.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 623.6
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-gray-medium dense to dense (A-3)					
			6		
			9		
		-45	10	NP	24
			8		
			10		
		-50	10	NP	20
			9		
			11		
		-55	14	NP	22
			9		
			15		
		-60	18	NP	22
SAND-gray-medium dense to dense (A-3)					
			12		
			15		
		-65	17	NP	20
	562.6				
CLAY-gray-very stiff (A-6)			9		*104*
			11		
		-70	15	3.8B	21
	557.6				
CLAY LOAM-gray-very stiff (A-6)			31		
			25		
	554.6	-75	36	3.75P	12
End Of Boring @ -75.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10.0' Of 4.0"ø Casing Used Diedrich Automatic Hammer					
		-80			

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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. 016-2480
Station --
BORING NO. **RW-25**
Station 284+75
Offset 51.0' Left
Ground Surface Elev. 629.8

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" TOPSOIL-black	628.9		AS	–	26
SILTY CLAY-dark brown, gray & black-stiff (A-6) Fill			3		*96*
			4		
			4	1.8B	23
	626.8				
SANDY CLAY LOAM-brown & gray-very loose (A-2)			2		
			1		
		-5	1	–	19
	624.3				
SAND-brown-loose to medium dense (A-3)			3		
			4		
			5	NP	18
			4		
			6		
		-10	9	NP	11
	619.3				
SILTY LOAM-gray-medium dense (A-4)			5		
			7		
			8	NP	25
	616.8				
SANDY LOAM-gray-medium dense (A-2)			4		
			6		
		-15	8	NP	25
	614.3				
SILTY LOAM-gray-loose (A-4)			2		
			3		
			3	NP	23
	611.8				
SANDY LOAM-gray-loose (A-2)			2		
			3		
		-20	4	NP	22
SANDY LOAM-gray-loose (A-2)	609.3				
			5		
			7		
			9	NP	23
			8		
			9		
SAND-gray-medium dense to very dense (A-3)		-25	10	NP	24
			5		
			9		
			9	NP	20
			5		
			9		
		-30	11	NP	22
			6		
			10		
		-35	13	NP	22
			8		
			10		
		-40	14	NP	22

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NR-No Recovery