SOIL BORING LOG

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

PAGE 1 of 1
DATE 3/01/2012
LOGGED BY MD
JOB NUMBER P-91-186-08
GSI JOB No. 08015
ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION SEC 12, T 36 N, R 13 E, SE 1/4, 3rd PM
COUNTY Cook
DRILLING METHOD Hollow Stem Auger
HAMMER TYPE Diedrich Safety
STRUCT. NO. –
Station –
BORING NO. LTB-03
Station: 1288+18
Offset: 150.5' Left
Ground Surface Elev. 603.0

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 597.0 ▼
Upon Completion 597.0 ▽
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black	602.0		AS	–	34
SILTY SAND-brown-loose to medium dense (A-2)			2 3 5	NP	19
		-5	4 9 12	NP	21
▽▼			6 14 16	NP	20
	596.0				
SILTY LOAM-gray-dense (A-4)		-10	6 12 17	NP	20
			12 19 17	NP	18
	590.0				
CLAY LOAM-gray-dense (A-4/A-6)		-15	12 18 24	–	9
	587.5				
SILT-gray-dense (A-4)			9 24 25	NP	18
		-20	18 29 31	NP	18
SILT-gray-dense (A-4)	582.5				
SILTY LOAM-gray-dense (A-4)			13 21 34	4.5+P	11
	580.0				
CLAY LOAM-gray-hard (A-4/A-6)		-25	13 21 20	NP	9
	577.5				
SAND & GRAVEL-gray-dense (A-1)			6 15 26	NP	6
	573.0	-30	12 15 18	NP	8
End Of Boring @ -30.0' Hollow Stem Augers Diedrich Safety Hammer					
		-35			
		-40			

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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PAGE 1 of 1
DATE 2/28/2012
LOGGED BY MD
JOB NUMBER P-91-186-08
GSI JOB No. 08015
ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION SEC 12, T 36 N, R 13 E, SE 1/4, 3rd PM
COUNTY Cook
DRILLING METHOD Hollow Stem Auger
HAMMER TYPE Diedrich Safety
STRUCT. NO. –
Station –
BORING NO. LTB-04
Station: 1288+43
Offset: 157.0' Right
Ground Surface Elev. 603.9

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 585.4 ▼
Upon Completion 584.9 ▽
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Clayey TOPSOIL-dark brown to black	602.9		AS	–	16
CLAY LOAM-brown-hard (A-6) Fill			5 10 12	4.5+P	14
	600.9				
SILTY CLAY LOAM-gray-medium dense (A-4)		-5	7 9 13	–	22
	598.4				
CLAY LOAM-gray-hard (A-6)			9 13 13	6.3B	*123* 11
		-10	9 13 11	5.9B	*118* 12
	593.4				
SILT-gray-dense (A-4)			15 23 28	NP	12
		-15	17 26 28	NP	17
	588.4				
CLAY LOAM to LOAM-gray-dense (A-4)			10 14 23	4.5+P	9
	▼585.4				
SILTY LOAM-gray-medium dense to dense (A-4) ▽		-20	12 16 18	NP	20
SILTY LOAM-gray-medium dense to dense (A-4)			6 12 14	NP	19
		-25	8 14 16	NP	16
	578.4				
SANDY LOAM-gray-dense (A-2)			11 22 26	NP	22
	573.9	-30	13 21 29	NP	22
End Of Boring @ -30.0' Hollow Stem Augers Diedrich Safety Hammer					
		-35			
		-40			

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

TYLIN INTERNATIONAL	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	147TH STREET PROJECT BORING LOG 2
		DRAWN -	REVISED -		
	PLOT SCALE =	CHECKED -	REVISED -		
	PLOT DATE =	DATE - 5/23/2012	REVISED -		SCALE: SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XX	(0405-1 & 0506-2) R-1	COOK	577	577b

CONTRACT NO. 60M57
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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