STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	350
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 16
16 - SHEETS

* 125X-HB-(1&2) R-1 CONTRACT # 60826

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ambriel Court, Suite 204
Naperville, Illinois 60565
(630) 355-2866

SOIL BORING LOG

PAGE 1 of 2
DATE 10/14/2004
LOGGED BY TOB
GSI JOB No. 0314

ROUTE FAP Rte. 346 DESCRIPTION New Overpass
TWNSHP Gurnee LOCATION TWP 44 N, R 6E on the south boundary of Sec 28
COUNTY Lake DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W037
Station
BORING NO. P-3
Station 539+67.0 US 41 Centerline
Offset 50.0' Left
Ground Surface Elev. 691.0

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" ASPHALT, 9.0" CRUSHED STONE	690.0				
CLAY-brown & gray-very stiff (A-6) Fill			5		
			7		
			7	-	14
			3		107
			7		
		-5	8	2.5B	21
SAND & GRAVEL-brown-medium dense (A-1) Possible Fill	685.0		5		
			8		
			8	NP	6
CLAY-brown & gray-stiff to very stiff (A-6)	682.5		4		103
			4		
		-10	4	1.1B	23
			5		124
			6		
			7	3.5B	13
			4		118
			10		
		-15	11	3.4B	16
			8		118
			9		
			13	2.7B	16
			6		117
			10		
		-20	12	3.7B	16
CLAY-brown & gray-stiff to very stiff (A-6)	665.0		6		120
CLAY-gray-stiff to very stiff (A-6)			10		
			10	3.5P	15
			7		119
			8		
		-25	11	3.0P	15
			6		106
			9		
			14	2.7B	22
			7		115
			8		
		-30	14	1.9B	17
			7		124
			12		
		-35	15	3.5P	13
	653.0				
CLAYEY SAND & GRAVEL-gray-medium dense (A-2-6)			10		
			5		
			7		
		-40	16	NP	20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
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 (%)

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BORING NO. P-3
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Ground Surface Elev. 691.0

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SAND & GRAVEL-gray-medium dense (A-2-6)	648.0				
CLAY-gray-very stiff to hard (A-6)			10		121
			11		
		-45	12	4.0P	14
			11		121
			14		
		-50	18	4.5P	14
			9		121
			8		
		-55	11	4.5P	14
			5		
			7		
		-60	10	3.0P	15
CLAY-gray-medium stiff to very stiff (A-6)	628.0				
SILTY LOAM-gray-dense (A-4)			12		
			14		
		-65	16	NP	15
End of Boring @ -65.0' Hollow Stem Augers to -10.0' Rotary Drilling to Completion D-120 Safety Hammer					
		-70			
		-75			
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
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TY·LIN INTERNATIONAL

DESIGNED	SNB
CHECKED	AD
DRAWN	SNB
CHECKED	AD

BORING LOG P-3

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W037