STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	249
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 14
15 - SHEETS

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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
825 Ambert Court, Suite 204
Naperville, Illinois 60565
(630) 355-2306

SOIL BORING LOG

PAGE 1 of 2
DATE 10/21-22/2004
LOGGED BY RJ
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' Hollow Stem Auger HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W031
Station
BORING NO. J-5
Station 108+65.7 Ramp A Baseline
Offset 7.25' Right
Ground Surface Elev. 699.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 646.3
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY TOPSOIL with Gravel-dark brown (Fill)			7		
			7		
			11	-	11
	696.3				
CLAY-brown-stiff to hard (A-6)			13		
			12		
		-5	14	4.5P	16
			10		
			12		
			15	4.5P	16
			7		110
			11		
		-10	13	8.8B	17
			6		107
			9		
			8	2.7B	18
			5		111
			5		
		-15	6	1.8B	19
	683.8				
SANDY CLAY-brown-medium dense (A-6)			5		
			9		
			7	-	9
	681.3				
CLAY-gray-stiff to very stiff (A-6)			3		124
			4		
		-20	7	3.0B	13
CLAY-gray-stiff to hard (A-6)			3		115
			4		
			6	1.8B	17
			3		107
			4		
		-25	6	1.8B	21
			3		104
			4		
			8	2.7B	21
			4		106
			5		
		-30	8	3.5B	22
			3		
			4		
		-35	6	1.75P	18
			10		
			11		
		-40	15	4.5P	13

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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COUNTY Lake DRILLING METHOD 3.25' Hollow Stem Auger HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W031
Station
BORING NO. J-5
Station 108+65.7 Ramp A Baseline
Offset 7.25' Right
Ground Surface Elev. 699.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 646.3
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to hard (A-6)			7		
			8		
		-45	7	-	13
			10		
			12		
		-50	13	3.0P	18
			8		114
			11		
		-55	15	4.0B	18
			5		124
			9		
		-60	9	2.7B	17
CLAY-gray-very stiff to hard (A-6)			7		136
			10		
		-65	15	4.5P	9
			4		108
			6		
		-70	8	2.0P	21
	626.8				
SAND-gray-dense (A-1-b)			22		
	624.8		17		
		-75	15	NP	13
End of Boring @ -75.0' Hollow Stem Augers D-120 Safety Hammer		-80			

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 (%)

TY·LIN INTERNATIONAL

DESIGNED	MAF
CHECKED	AD
DRAWN	MAF
CHECKED	AD

BORING LOG J-5

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W031