STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	332
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 19
21 - SHEETS

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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2836

SOIL BORING LOG

PAGE 1 of 2
DATE 8/17-18/2004
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-W036
Station
BORING NO. 0-3
Station 539+41.5 US 41 Centerline
Offset 48.75' Right
Ground Surface Elev. 688.9

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 (%)
TOPSOIL-black (A-7)	687.9				
CLAY-brown & gray spotted black-very stiff to hard (A-6) Fill			8		
			8		
			8	3.5P	20
			5		110
			7		
		-5	9	4.1B	18
CLAYEY TOPSOIL-dark brown & black-(A-6/A-7) Fill	682.9		3		
			4		
			6	-	23
CLAY-brown & gray-very stiff (A-6)	680.4		11		110
			8		
		-10	9	3.2B	18
SILTY LOAM-brown & gray-medium dense (A-4)	677.9		5		
			7		
			10	NP	20
CLAY-brown & gray-very stiff (A-6)	675.4		7		116
			10		
		-15	14	3.2B	17
CLAY-gray-stiff to very stiff (A-6)	672.4		5		116
			7		
			11	3.1B	17
CLAY-gray-stiff to very stiff (A-6)			4		117
			6		
		-20	9	2.7B	16

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
		4		116
		6		
		8	2.8B	16
		3		103
		5		
	-25	7	1.8B	24
		7		101
		4		
		4	1.1B	22
		4		
	-30	5		
		9		NR
		14		
		20		
	-35	30	3.0P	16
		6		108
		12		
	-40	12	3.25P	15

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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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-W036
Station
BORING NO. 0-3
Station 539+41.5 US 41 Centerline
Offset 48.75' Right
Ground Surface Elev. 688.9

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to hard (A-6)				
		5		121
		13		
	-45	17	4.0P	15
		3		109
		7		
	-50	9	1.6B	19
		6		126
		8		
	-55	12	2.9B	18
		5		108
		7		
	-60	9	1.8B	20

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to hard (A-6)	626.9				
SAND & GRAVEL-gray-medium dense to dense (A-1)			13		
			13		
		-65	17	NP	10
			11		
			15		
		-70	17	NP	9
			19		
			21		
	613.9	-75	23	NP	11
End of Boring @ -75.0' Hollow Stem Augers to -10.0' Rotary Drilling to Completion 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 (%)

TYLIN INTERNATIONAL

DESIGNED	SNB
CHECKED	AD
DRAWN	SNB
CHECKED	AD

BORING LOG 0-3

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W036