STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	220
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. "S-51
S-66" 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) 355-2366

SOIL BORING LOG

PAGE 1 of 3
DATE August 2-4, 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 Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-0209
Station
BORING NO. B-1
Station 529+94.5 US 41 Centerline
Offset 37.05' Right
Ground Surface Elev. 698.8

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 (%)
SILTY CLAY LOAM-dark brown to brown-medium stiff to stiff (A-6)			4		
			5		
			6	0.75P	15
			4		
	694.3		3		
		-5	6	1.0P	13
CLAY-brown & gray-very stiff to hard (A-6)			5		131
			5		
			10	3.0B	10
			7		127
			10		
		-10	12	4.1B	12
	687.8				
			9		127
			12		
			18	5.5B	12
CLAY-gray-very stiff to hard (A-6)			10		
			15		
		-15	13		NR
			4		127
			8		
			18	3.7B	12
			7		129
			10		
		-20	12	1.9B	10
CLAY-gray-very stiff to hard (A-6)			8		128
			6		
			13	2.5B	12
			4		125
			5		
		-25	9	2.7B	13
			8		
			8		
			10		NR
			5		
			6		
		-30	8	-	15
	664.8		11		
SANDY LOAM-gray-loose (A-2)			5		
		-35	4	NP	15
	663.3				
CLAY-gray-very stiff (A-6)			8		132
			9		
		-40	12	3.7B	10

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 (%)

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
825 Ambert Court Suite 204
Naperville, Illinois 60565
(630) 355-2366

SOIL BORING LOG

PAGE 2 of 3
DATE August 2-4, 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 Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-0209
Station
BORING NO. B-1
Station 529+94.5 US 41 Centerline
Offset 37.05' Right
Ground Surface Elev. 698.8

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 (%)
CLAY-gray-very stiff (A-6)					
	655.3				
SANDY CLAY LOAM-gray-medium dense (A-2-6)			8		
			11		
	653.8	-45	19	NP	17
CLAY-gray-very stiff to hard (A-6)			8		133
			11		
		-50	19	5.3B	10
			6		128
			11		
		-55	15	2.7B	12
	640.3				
SILTY LOAM-gray-dense (A-4)			11		
			16		
		-60	16	NP	15
SILTY LOAM-gray-dense (A-4)					
	635.8				
CLAY-gray-very stiff (A-6)			9		121
			12		
		-65	15	2.8B	15
	629.8		5		
			6		
		-70	18	NP	15
Fine SAND-gray-medium dense (A-3)					
	625.3				
SAND & GRAVEL-gray-medium dense to dense (A-1)			14		
			14		
		-75	16	NP	15
			27		
	619.3		12		
CLAY-gray-stiff to very stiff (A-6)		-80	12	NP	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 (%)

TY·LIN INTERNATIONAL

DESIGNED	MAF
CHECKED	AD
DRAWN	MAF
CHECKED	AD

BORING LOG B-1
(1 OF 2)

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-0209