STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	3/1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 13
15 - 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) 355-2306

SOIL BORING LOG

PAGE 1 of 1
DATE 10-20-2004
LOGGED BY TOB
GSI JOB No. Ø314

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 Ø49-WØ35
Station
BORING NO. N-8
Station 309+35.5 Ramp C Baseline
Offset 7.25' Right
Ground Surface Elev. 680.8

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				TOPSOIL-black (A-7)
679.8				
	4			SILTY CLAY LOAM-gray-
	6			medium dense (A-4/A-6)
	8	2.5P	14	
				SILTY CLAY-brown-
				very stiff to hard (A-6)
	3		119	
	6			
-5	5	3.5B	18	
	5		109	
	9			
	11	6.2B	22	
672.3				
	6		117	
	8			
-10	12	6.2B	21	
				CLAY-gray-stiff to hard (A-6)
	4		120	
	6			
	8	4.4B	18	
	4		108	
	5			
-15	6	2.5B	16	
	2		107	
	4			
	5	1.75B	24	
662.3				
	3		118	SILTY CLAY LOAM-gray-
	6			medium dense (A-4/A-6)
-20	4	0.9B	15	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	3			SILTY CLAY LOAM-gray-
657.3				medium dense (A-4/A-6)
	4		122	
	5			CLAY-gray-hard (A-6)
655.8				
-25	6	4.0B	10	End of Boring @ -25.0'
				Hollow Stem Augers
				D-120 Safety Hammer
-30				
-35				
-40				

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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SOIL BORING LOG

PAGE 1 of 1
DATE 10/5/2004
LOGGED BY TOB
GSI JOB No. Ø314

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 Ø49-WØ35
Station
BORING NO. N-9
Station 310+10.7 Ramp C Baseline
Offset 7.25' Right
Ground Surface Elev. 682.9

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				TOPSOIL-black (A-7)
681.4				
	5			
	6			
	7	3.5P	13	
				CLAY-brown & gray-
				stiff to very stiff (A-6) Fill
	5			
	4			
-5	4	2.5P	15	
	2			
	2			
	2	1.0P	13	
674.4				
	5		110	
	8			
-10	10	2.5B	20	
				CLAY-brown & gray-
				very stiff (A-6)
681.4	7		118	
	10			
	12	6.6B	16	
				CLAY-gray-hard (A-6)
	6		119	
	11			
-15	11	5.75B	15	
	3		105	
	6			
	9	4.0B	23	
662.9				
	3			CLAY LOAM-gray-
-20	4			stiff to very stiff (A-6)
	5	1.0P	24	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	3			CLAY LOAM-gray-
				stiff to very stiff (A-6)
	4			
	7	3.5P	13	
659.9				
	4		115	
	6			
-25	7	1.3B	21	CLAY-gray-stiff to very stiff (A-6)
	3		118	
	4			
	5	2.1B	18	
	4		118	
	6			
652.9 -30	8	2.5B	16	
				End of Boring @ -30.0'
				Hollow Stem Augers
				D-120 Safety Hammer
-35				
-40				

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	-	MAF
CHECKED	-	AD
DRAWN	-	MAF
CHECKED	-	AD

BORING LOGS N-8 & N-9

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. Ø49-WØ35