

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. - 15
346	*	LAKE	469	349	16 SHEETS
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-		
* 125X-HB-(1&2) R-1		CONTRACT # 60826			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amber Court, Suite 204
Naperville, Illinois 60565
(630) 355-1236

PAGE 1 of 2
DATE 10/27/2004
LOGGED BY C&S
GSI JOB No. 0314

SOIL BORING LOG

ROUTE FAP Rte. 346 DESCRIPTION New Overpass
TWNESHIP 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 CME-75 Auto Hammer

STRUCT. NO. SN 049-W037
Station _____
BORING NO. P-2
Station 538+91.3 US 41 Centerline
Offset 47.37' Left
Ground Surface Elev. 692.8

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)
Surface Water Elev. n/a							
Stream Bed Elev. n/a							
Groundwater Elevation:							
First Encounter Dry							
Upon Completion Dry							
After _____ Hrs.							
TOPSOIL-black (Fill) 692.5							
CLAY-brown & gray-very stiff (A-6) Fill							
3			89	5			113
4				7			
4	2.3B		17	8	1.7B		14
689.3 CLAY-gray-stiff to very stiff (A-6)							
1			102	4			122
2				5			
-5	4	1.6B	19	-25	6	2.0B	14
CLAY-brown & gray-stiff to hard (A-6)							
2			102	5			123
5				7			
6	2.5B		20	10	3.4B		14
624.8							
3			95	4			114
5				5			
-10	7	2.5B	27	-30	9	2.7B	18
CLAY-gray-stiff to very stiff (A-6)							
1			107				
2							
3	1.7B		19				
614.8							
1			118	5			117
2				21			
-15	5	2.7B	16	-35	15	1.6B	16
CLAYEY SAND & GRAVEL-gray-medium dense to dense (A-2-6)							
5			118				
10							
13	5.1B		14				
612.8							
3			117	4			122
5				2			
-20	8	1.5P	14	-40	6	2.5B	11

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Surface Water Elev. n/a							
Stream Bed Elev. n/a							
Groundwater Elevation:							
First Encounter Dry							
Upon Completion Dry							
After _____ Hrs.							
CLAY-gray-stiff to very stiff (A-6)							
4			110	4			117
7				15			
-45	7	2.0B	19	-65	20	3.2B	16
624.8							
4			119	13			
5				16			
-50	7	1.0B	15	-70	13		NR
CLAY-gray-very stiff (A-6)							
5			123	14			
10				18			
-55	14	2.0B	14	-75	18	NP	12
614.8							
4			117	6			122
2				8			
-60	2		NR	-80	12	2.0B	14

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 (ASTM T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)

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TYLIN INTERNATIONAL

DESIGNED	- SNB
CHECKED	- AD
DRAWN	- SNB
CHECKED	- AD

BORING LOG P-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-W037