

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	232
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) 355-2866

PAGE 1 of 3  
DATE 6/23-7/30/2004  
LOGGED BY AD  
GSI JOB No. 0314

SOIL BORING LOG

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 049-0209  
Station \_\_\_\_\_  
BORING NO. B-7  
Station 537+19.4 US 41 Centerline  
Offset 37.6' Right  
Ground Surface Elev. 697.2

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOIST (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOIST (%)	SOIL DESCRIPTION
6				CLAYEY TOPSOIL-black (A-7)	8			110	
7				CLAY-gray-stiff to very stiff (A-6)	11				
11	1.75P	20			17	3.4B	20		
693.2			101		9			104	
10				CLAY-brown & gray- medium stiff to very stiff (A-6)	11			23	
-5	10	1.4B	25		-25	16	2.3B	23	
4			113		8			101	
7					10				
8	2.3B	18		11	1.8B	25			
2				9			103		
3				8					
-10	4	2.0P	16	-30	10	1.5B	24		
			NR						
10			102	663.2	18				
22				24					
-15	22	0.5P	24	SAND-gray-dense (A-3)	-35	20	NP	18	
18									
30									
33			21	659.7					
679.2									
				CLAY-gray-very stiff (A-6)					
11			114		8			111	
17					14				
-20	22	3.7B	18	657.2	-40	19	2.5B	19	

Drillers Observation:  
Unknown obstruction @ -11.0'.

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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				CLAY-gray- medium stiff to very stiff (A-6)	6				
				SAND & GRAVEL-gray- medium dense (A-1)	11				
					17	3.4B	20		
					9			104	
				CLAY-gray- medium stiff to very stiff (A-6)	11			23	
					-25	16	2.3B	23	
					8			101	
					10				
				11	1.8B	25			
				9			103		
				8					
				-30	10	1.5B	24		
			NR						
			102	663.2	18				
				24					
				SAND-gray-dense (A-3)	-35	20	NP	18	
			21	659.7					
				CLAY-gray-very stiff (A-6)					
			114		8			111	
					14				
				657.2	-40	19	2.5B	19	

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TYLIN INTERNATIONAL

DESIGNED	- MAF
CHECKED	- AD
DRAWN	- MAF
CHECKED	- AD

BORING LOG B-7  
(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