

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. 346	SECTION *	COUNTY LAKE	TOTAL SHEETS 469	SHEET 234	SHEET NO. - S-65 S-66" 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) 235-1236

PAGE 1 of 3
DATE June 17-18, 2004
LOGGED BY AD
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' HSA/Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-0209
Station XX
BORING NO. B-8
Station 537+37.2 US 41 Centerline
Offset 30.97' Left
Ground Surface Elev. 690.4

DEPTH H S	BLOW S	UCS Qu	MOIST T	Surface Water Elev. n/a				DEPTH H S	BLOW S	UCS Qu	MOIST T
				Stream Bed Elev. n/a							
Groundwater Elevation:				First Encounter 679.4				Upon Completion n/a			
After _____ Hrs.				After _____ Hrs.				After _____ Hrs.			
(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)
TOPSOIL-black (A-7)											
688.9	3		107	CLAY-gray-stiff to very stiff (A-6)				4			96
5								7			
6	3.9B	18.9						6	2.2B	20.6	
SILTY CLAY-trace organics- brown & gray spotted black- medium stiff to very stiff (A-6) Fill											
666.9	2		106	CLAY-gray-stiff to very stiff (A-6)				5			
4								8			
-5	4	0.9B	21.3	SAND with Gravel-gray- medium dense (A-1-b)				-25	9	NP	13.2
664.9				SAND with Gravel-gray- medium dense (A-1-b)							
684.4	3		112	CLAY-gray-very stiff to hard (A-6)				4			
2								5			
6	2.0P	16.2						11	3.7P	12.1	
CLAY-brown & gray-stiff to very stiff (A-6)											
4								10			128
6								13			
-10	8	2.0P	18.1	CLAY-gray-very stiff to hard (A-6)				-30	16	5.0B	11.7
679.6				CLAY-gray-very stiff to hard (A-6)							
4			111	SAND with Gravel-gray- medium dense to dense (A-1-b)							
6								18			
7	1.3B	19.4						9			
4								10			
8								11			
-15	7	2.4B	20.5	CLAY-gray-stiff to very stiff (A-6)				-35	11	NP	12.8
CLAY-gray-stiff to very stiff (A-6)											
3			124	CLAY-gray-stiff to very stiff (A-6)							
7								8			
7	2.3P	12.9						9			
3			119	CLAY-gray-stiff to very stiff (A-6)							
6								14			
-20	6	1.8B	15.5	CLAY-gray-stiff to very stiff (A-6)				-40	19	NP	8.2

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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After _____ Hrs.				After _____ Hrs.				After _____ Hrs.			
(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)
SAND with Gravel-gray- medium dense to dense (A-1-b)											
641.9	20			SAND-gray-medium dense to dense (A-3)				17			
11								15			
-45	17	NP	10.2	SAND-gray-medium dense to dense (A-3)				-65	9	NP	11.9
641.9				SAND-gray-medium dense to dense (A-3)							
6			123	CLAY-gray-hard (A-6)				39			
8								22			
-50	12	4.5P	13.9	CLAY-gray-hard (A-6)				-70	19	NP	12.3
618.4				CLAY-gray-hard (A-6)							
8			130	CLAY-gray-hard (A-6)				8			117
10								13			
-55	14	4.5P	10.9	CLAY-gray-hard (A-6)				-75	17	4.0P	16.4
631.9				CLAY-gray-hard (A-6)							
8								7			122
14								10			
-60	6	NP	14.6	SAND-gray-medium dense to dense (A-3)				-80	11	4.0P	14.2

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TYL INTERNATIONAL

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

BORING LOG B-8
(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