STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/15/09

ROUTE Central Avenue DESCRIPTION Central Avenue over the North Branch Chicago River, Deerfield, Illinois LOGGED BY MG

SECTION _____ LOCATION , SEC. 32, TWP. 43N, RNG. 12E, 3rd PM

COUNTY Lake DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 049-6154
Station _____
BORING NO. SB-1
Station _____
Offset _____
Ground Surface Elev. 654.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter 630.5 ft
Upon Completion 630.0 ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
653.00				4.5" Asphalt over 6.6" Recycled gravel
	3			FILL- Silty Clay with sand & gravel obstacles, black-gray-brown, very stiff
	3	2.7	16.3	
	4			
	2			
	3	2.2	24.7	
649.00 -5	4			
				FILL- Silty clay with black sand seams, brown-gray, stiff
	1			
	2	1.6	24.0	
646.00	3			
				SILTY CLAY, gray, hard to very stiff
	4			
	7	4.2	18.1	
-10	8			
	3			
	7	2.8	17.7	
	9			
	3			
	5	2.1	19.3	
639.00 -15	8			
				SILTY CLAY with small gravel, gray, very stiff to stiff
	3			
	5	2.4	17.5	
	6			
	2			
	3	1.8	22.0	
-20	5			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
633.00				SILTY CLAY with small gravel, gray, very stiff to stiff *(continued)*
				SAND & GRAVEL, medium dense, wet
	4			
	5		9.4	
-25	6			
628.00				SILTY CLAY, with sand seams, stiff to very stiff
	2			
	5	1.7	22.2	
-30	5			
	3			
	5	1.6	25.8	
-35	6			
	7			
	12	3.3	17.3	
614.00 -40	8			

End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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SECTION _____ LOCATION , SEC. 32, TWP. 43N, RNG. 12E, 3rd PM

COUNTY Lake DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 049-6154
Station _____
BORING NO. SB-2
Station _____
Offset _____
Ground Surface Elev. 654.04 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
653.04				FILL- Clayey topsoil, black
	2			FILL- Silty clay with sand & gravel, stiff to very stiff, dark gray Boring moved twice because of large stone obstacle at the depth of 6'
	2	1.1	27.7	
	4			
	1			
	2	2.2	21.1	
-5	4			
	3			
			24.1	
646.04	3			
				FILL- Silty clay, brown-black-gray
	2			
	2		24.7	
644.04 -10	8			
	1			SILTY CLAY with small gravel, gray, stiff
	2	1.3	24.2	
	9			
640.54	2			
				SILTY CLAY with small gravel, gray, very stiff to stiff
	2	2.3	22.8	
-15	8			
	3			
	4	2.1	22.8	
	6			
	2			
	2	1.8	23.0	
-20	5			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				SILTY CLAY with small gravel, gray, very stiff to stiff *(continued)*
	2			
-25	3	1.3	19.2	
	6			
	2			
	3	1.6	20.2	
-30	5			
623.04				SILTY CLAY, gray, very stiff
	4			
	5	2.7	23.5	
-35	6			
	8			
	11	3.4	15.2	
614.04 -40	7			

End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED	DYS
CHECKED	JPB
DRAWN	DYS
CHECKED	JPB

URS
100 South Wacker Drive, Suite 500
Chicago, IL 60606
Tel: 312.939.1000
Fax: 312.939.4198

SOIL BORING LOG(S)
STRUCTURE NO. 049-6161

SHEET NOS-12	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 SHEETS		09-00085-00-BR	LAKE	22	20
			CONTRACT NO. 63584		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		