SOIL BORING SB-04 (1 OF 2)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberer Court, Suite 200
Naperville, Illinois 60563
(630) 355-3515

SOIL BORING LOG

PAGE 1 of 2
DATE 3/31/2010
LOGGED BY MR
GSI JOB No. 09118

ROUTE FAP 345 (U.S. Route 20) DESCRIPTION US 20 over McLean Boulevard, Elgin, Illinois Contract No. 60H45
SECTION 8R-R LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-04
Station: 97+12 US 20
Offset: 49' Right
Ground Surface Elev. 850.2

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT	849.4				
SAND, GRAVEL & STONE- medium (Fill)	847.2		4 6 6	NP	2
SILTY CLAY-dark gray to black- medium stiff (A-6) Fill, Wet	844.7	-5	2 2 3	0.75P	25
CLAY LOAM with Gravel & Stone- brown-loose (Fill)	842.2	-10	3 3 5	–	17
CLAY-brown & gray-stiff to hard (A-6) Apparent Fill		-15	3 5 8 5 6 8 4 5 7 4 6 8 5 7	4.5+P 1.4B 1.9B 1.7B	16 103 23 107 21 105 22 108
CLAY-stiff to hard (A-6) Apparent Fill	829.7				
SILTY CLAY-dark brown- very stiff (A-6) Wet	824.7	-25	7 9 10 3 6 6	2.75P 2.0P	25 29
Clayey SAND & GRAVEL-brown- loose (A-2)	822.2	-30	2 2 3 3 5 8	– NP	44 8
SAND & GRAVEL-brown- medium dense to very dense (A-1)		-40	4 5 7 42 50/4"	NP	7

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
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 (%)
NR-No Recovery

SOIL BORING SB-04 (2 OF 2)

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ROUTE FAP 345 (U.S. Route 20) DESCRIPTION US 20 over McLean Boulevard, Elgin, Illinois Contract No. 60H45
SECTION 8R-R LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-04
Station: 97+12 US 20
Offset: 49' Right
Ground Surface Elev. 850.2

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-brown- medium dense to very dense (A-1)		-45	26 34 48	NP	8
SILT-gray-medium dense (A-4)	798.2	-55	7 9 13	–	22
SAND & GRAVEL-gray- dense to very dense (A-1)	793.2	-60	13 17 22	NP	7
SAND & GRAVEL-gray- dense to very dense (A-1)		-65	21 29 36	NP	9
GRAVEL-gray-medium dense (A-1)	778.2	-70	16 22 29	NP	9
	775.2	-75	10 12 16	NP	11
End Of Boring @ -75.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
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NR-No Recovery

SOIL BORING SB-05 (1 OF 2)

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ROUTE FAP 345 (U.S. Route 20) DESCRIPTION US 20 over McLean Boulevard, Elgin, Illinois Contract No. 60H45
SECTION 8R-R LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-05
Station: 99+51 US 20
Offset: 33' Left
Ground Surface Elev. 849.6

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" ASPHALT	848.6				
SANDY CLAY with Gravel & Stone- dark brown & gray-stiff to very stiff (Fill)		-5	5 6 7 3 5 6	3.25P 1.0P	12 17
CLAY-gray-stiff to very (A-6) Fill	838.6	-10	3 5 10 4 4 7 5 7 3 4 4 7 5 8	2.5P 3.5P 1.75B 1.4B 3.2B	17 13 110 20 102 21 107 19
Clayey SAND & GRAVEL-dark brown- medium dense (Fill)	831.6	-20	5 8 10	–	15
Clayey SAND & GRAVEL-dark brown- medium dense (Fill)	828.6		4		92
SILTY CLAY-brown-stiff (A-6) Wet	826.6		5 5 7	1.3S@ 11.3%	29
SILTY CLAY LOAM-brown- stiff (A-4/A-6)	824.1	-25	2 3 4 19 29 34	1.25P	21 9
SAND & GRAVEL-brown- dense to very dense (A-1)		-30	37 46 50/5"	NP	11
		-35	39 50/5"	NP	10
		-40	26 28 35 43	NP	11

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
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