SOIL BORING SB-01 (1 OF 2)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberst Court, Suite 100
Naperville, Illinois 60563
(630) 355-3515

SOIL BORING LOG

PAGE 1 of 2
DATE 3/30/2010
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-01
Station: 95+19 US 20
Offset: 35' Left
Ground Surface Elev. 847.8

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 (%)
7.0" ASPHALT	847.1				
TOPSOIL-black (Fill)			3		
			4		
			6	2.5P	22
SAND & GRAVEL-brown-medium dense (A-1) Fill	844.8		3		
			4		
		-5	5	NP	7
CLAY LOAM with Gravel & Stone-dark brown & gray-medium dense to dense (Fill)	842.3		5		
			8		
			8	0.5P	14
			11		
			12		
		-10	15	-	12
			5		
			8		
			13	1.75P	19
			6		
			13		
		-15	17	1.25P	23
SAND & GRAVEL-brown-dense (A-1) Fill	832.3		7		
			14		
			19	NP	12
TOPSOIL-black	829.8		6		88
SILTY CLAY-brown-stiff (A-6) Wet	828.3	-20	8	1.0B	28
SILTY CLAY-brown-stiff (A-6) Wet			2		93
			4		
			4	1.0B	25
SAND & GRAVEL-brown-medium dense to very dense (A-1)	824.8		6		
			7		
		-25	19	NP	16
			12		
			19		
			29	NP	7
			19		
			29		
		-30	34	NP	13
			26		
			30		
		-35	33	NP	6

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-01 (2 OF 2)

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SOIL BORING LOG

PAGE 2 of 2
DATE 3/30/2010
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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-01
Station: 95+19 US 20
Offset: 35' Left
Ground Surface Elev. 847.8

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)			22		
			33		
		-45	43	NP	7
SILT-gray-medium dense (A-4)	800.8		10		
			12		
		-50	15	NP	21
SAND & GRAVEL-gray-dense (A-1)	795.8		16		
			22		
		-55	29	NP	10
SAND & GRAVEL-gray-dense (A-1)			19		
			26		
		-65	33	NP	6
			13		
			19		
		-70	23	NP	17
			14		
			19		
	772.8	-75	21	NP	13
End Of Boring @ -75.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer					

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NR-No Recovery

SOIL BORING SB-02 (1 OF 2)

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SOIL BORING LOG

PAGE 1 of 2
DATE 3/31/2010
LOGGED BY RJ
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-02
Station: 95+40 US 20
Offset: 50' Right
Ground Surface Elev. 848.6

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 (%)
10.0" ASPHALT	847.7				
SAND & GRAVEL-brown-medium dense to dense (A-1) Fill			8		
			12		
			14	NP	5
			6		
			5		
		-5	3	NP	6
			12		
			12		
			25	NP	11
			12		
			11		
		-10	19	NP	9
CLAY LOAM with Gravel & Stone-dark brown & gray-very dense (Fill)	838.1		12		
			32		
			50/1"	-	15
SAND & GRAVEL-brown-medium dense to very dense (A-1) Fill	835.6		23		
			30		
		-15	30	NP	11
			20		
			25		
			30	NP	12
			10		
			12		
		-20	12	NP	5
SAND & GRAVEL-brown-medium dense to very dense (A-1) Fill			2		
			4		
			22	NP	9
Clayey SAND & GRAVEL-brown-medium dense (A-2) Fill	825.6		4		
			6		
		-25	14	NP	13
CLAY LOAM to LOAM-brown-medium dense (A-4) Apparent Fill	823.1		8		
			12		
			12	NP	25
SAND & GRAVEL-brown-medium dense to very dense (A-1)	820.6		25		
			30		
		-30	35	NP	9
			50/6"		
		-35		NP	14
		-40	30	NP	8

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