Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 1
DATE January 31, 2011
LOGGED BY DR
GSI JOB No. 10216

ROUTE F.A.P. RTE. 870 DESCRIPTION IL. Route 53 Bridge Over St. Joseph's Creek, Lisle, Illinois
SECTION 534-B LOCATION SEC. 3, T. 38 N., R. 10 E., 3rd P.M., Lisle Township
COUNTY DuPage DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. B-01
Station 100+12
Offset 22.5' Left
Ground Surface Elev. 668.9

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				13.0" ASPHALT 667.8
	12			
	4			TOPSOIL–black
	4	–	36	665.9
	3		89	
–5	6			Organic SILTY CLAY–dark brown & black–stiff (A–7) Wet
	5	1.68	30	
				662.9
	3			LOAM–brown & gray–loose (A–2/A–4)
	0			660.9
	6	–	17	
	7			
	10			
–10	10	NP	14	SAND & GRAVEL–brown–medium dense to dense (A–1)
	7			
	12			
	11	NP	17	
	19			
	21			
–15	22	NP	10	
				653.4
	38			SAND, GRAVEL & FRACTURED ROCK–gray–dense to very dense (A–1)
	26			
	19	NP	9	
	24			
	16			
–20	14	NP	9	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	19			
	16			
	18	NP	13	
	50/5"	NP	12	
				644.4
–25				Drillers Observation: Possible Bedrock
				643.4
				RUN 1 (–25.5' to –35.5') Silurian System, Niagaran Series Dolomite Light gray with horizontal bedding. Fine grained with some chert nodules. Horizontal fractures @ –25.9', –26.2', –26.5', –26.8', –27.1', –27.5', –27.7', –28.2', –28.8' & –29.5'. Vertical fracture from –30.3' to –31.2'. Horizontal fractures @ –31.3', –31.5', –32.2', –32.3', –33.6' & –34.5'.
–30				
				Recovery=100.0% R.Q.D.=73.5% 50% Water Loss
				RUN 1
–35				
				633.4
				End Of Boring @ –35.5' Hollow Stem Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' of 4.0"ø Casing Used
–40				

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

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DATE January 28, 2011
LOGGED BY DR
GSI JOB No. 10216

ROUTE F.A.P. RTE. 870 DESCRIPTION IL. Route 53 Bridge Over St. Joseph's Creek, Lisle, Illinois
SECTION 534-B LOCATION SEC. 3, T. 38 N., R. 10 E., 3rd P.M., Lisle Township
COUNTY DuPage DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. B-02
Station 99+88
Offset 22.0' Right
Ground Surface Elev. 669.0

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				12.0" ASPHALT, 3.0" CRUSHED STONE 667.8
	18			
	6			TOPSOIL–black
	3	–	1	666.0
	2		88	
–5	3			Organic SILTY CLAY–dark brown & black–stiff (A–7) Wet
	3	1.18	30	
				663.0
	6			CLAYEY SAND & GRAVEL–brown–medium dense (A–2)
	5			661.0
	5	–	12	
	19			
	16			
–10	12	NP	3	SAND & GRAVEL–brown & gray–medium dense (A–1)
	10			
	6			
	8	NP	10	
	3			
	8			
–15	11	NP	11	
				653.5
	27			SAND, GRAVEL & FRACTURED ROCK–gray–dense to very dense (A–1)
	23			
	27	NP	19	
	10			
	18			
–20	18	NP	8	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	50/4"			SAND, GRAVEL & FRACTURED ROCK–gray–dense to very dense (A–1)
		NP	8	
	23			645.0
–25	50/2"			FRACTURED ROCK–gray–very dense (A–1)
		NP	12	
	50/2"			Drillers Observation: Possible Weathered Bedrock
		NP	14	642.0
				RUN 1 (–27.0' to –37.0') Silurian System, Niagaran Series Dolomite Light gray with horizontal bedding. Fine grained with some chert nodules. Weathered horizontal fractures @ –27.5'. Horizontal fractures @ –28.1', –28.2', –28.5' & –28.8'. Vertical fracture from –28.8' to –29.4'. Horizontal fractures @ –29.9', –30.7' & –31.2'. Weathered horizontal fracture @ –31.8'. Horizontal fracture @ –33.6'. Vertical fracture from –33.9' to –34.4'. Horizontal fracture @ –35.8'.
–30				
				Recovery=97.0% R.Q.D.=70.0% 100.0% Water Loss @ –27.5'
				RUN 1
–35				
				632.0
				End Of Boring @ –37.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' of 4.0"ø Casing Used
–40				

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