Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2859

SOIL BORING LOG

PAGE 1 of 1
DATE 6/13/2011
LOGGED BY RT
GSI JOB No. 10191

ROUTE IL. Rte. 25 & IL. Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-10A**
Station 306+72 IL Route 25
Offset 42.0' Right
Ground Surface Elev. 756.7

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	AS	–	21
CLAY LOAM–brown (A–6)			
	AS	–	17
751.7 –5	AS	–	16
Auger Refusal @ –5.0' End Of Boring Hand Auger			
–10			
–15			
–20			
–25			
–30			
–35			
–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 PS–Pushed Spoon

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ROUTE IL. Rte. 25 & IL. Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-11**
Station 308+05 IL Route 25
Offset 42.0' Right
Ground Surface Elev. 762.3

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 758.3
Upon Completion n/a
After ___ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.0" ASPHALT, 8.0" CONCRETE 761.1			
	3		*12.5*
	3		
CLAY LOAM–brown–medium stiff (A–6)	3	0.8B	13
758.3	3		
	4		
–5	7	NP	16
SILTY LOAM–brown & gray– medium dense (A–4)			
	4		
	5		
	7	NP	20
753.8			
	4		*12.5*
	4		
–10	5	1.3B	13
	3		*12.7*
	5		
	7	1.9B	12
CLAY LOAM–gray– stiff to very stiff (A–6)			
	6		*12.8*
	7		
–15	9	2.5B	13
	3		*12.3*
	3		
	5	1.0B	14
	4		*12.6*
–20	6	1.3B	13
CLAY LOAM–gray– stiff to very stiff (A–6)			
	4		
	5		
	6		
737.3 –25	8	2.3B	13
End Of Boring @ –25.0' Hollow Stem Augers To –5.0 Rotary Drilling To Completion CME Automatic Hammer 5.0' Of 4.0"ø Casing Used			
–30			
–35			
–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 (%)
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SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-12**
Station 309+00 IL Route 25
Offset 7.0' Right
Ground Surface Elev. 751.9

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 5.0
Upon Completion n/a
After ___ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.5" ASPHALT, 7.5" CONCRETE 750.9			
	2		*12.2*
	2		
CLAY LOAM–brown–stiff (A–6)	3	1.7B	13
748.9			
SILT–brown–loose (A–4)	2		
	2		
–5	4	2.5P	21
746.4			
	2		*12.3*
CLAY LOAM–brown–medium stiff (A–6)	3		
	4	0.9B	14
743.9			
	10		
	12		
–10	15	NP	19
Fine SAND–brown– medium dense (A–2/A–3)			
	10		
	8		
	8	NP	20
738.9			
	3		*12.1*
	5		
–15	7	1.5B	13
CLAY LOAM–gray– stiff to very stiff (A–6)			
	4		*12.6*
	6		
	8	1.1B	13
	3		*12.5*
	6		
–20	9	2.0B	13
CLAY LOAM–gray– stiff to very stiff (A–6)			
	4		*12.3*
	5		
	7		
726.9 –25	10	1.2B	14
End Of Boring @ –25.0' Hollow Stem Augers To –5.0 Rotary Drilling To Completion CME Automatic Hammer 5.0' Of 4.0"ø Casing Used			
–30			
–35			
–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
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FILE NAME = IL25_WALLS_007_BoringLog4.dgn	USER NAME = akeaschall	DESIGNED - MFH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - MFH	REVISED -
	PLOT DATE = 11/9/2011	CHECKED - HMA	REVISED -

ST. CHARLES SINCE 1834

CITY OF ST. CHARLES

SOIL BORING LOGS (4 OF 5)
RETAINING WALLS ALONG IL 25
SHEET NO. SR7 OF SR13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	305
		CONTRACT NO. 63650		
		ILLINOIS FED. AID PROJECT		

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