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

SOIL BORING LOG

PAGE 1 of 3
DATE 12/2-3/2010
LOGGED BY MR
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 Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-6024
Station 115+15
BORING NO. **BR-07**
Station 119+65 Red Gate Road
Offset Baseline
Ground Surface Elev. 691.0

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" TOPSOIL-black	690.3				
CLAY LOAM-dark brown-hard (A-6) Possible Fill	688.0		AS 5	–	20
SAND with Gravel-brown-very loose (A-1-b)	685.5		7 7	4.5+P	11
SAND-brown-medium dense (A-3)	680.5		2 1 1	NP	15
SILTY CLAY LOAM-gray-medium dense (A-4)	678.0		2 4 6	NP	18
SAND & GRAVEL-brown & gray-dense to very dense (A-1)			4 7 10	NP	22
			3 4 7	0.75P	19
			4 9 10	NP	11
			8 9 10	NP	7
			11 13 13	NP	10

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	13 13 13	NP	8
	13 15 15	NP	10
	13 15 16	NP	7
	13 17 21	NP	7
	17 20 22	NP	5
	23 27 31	NP	7

SAND & GRAVEL-brown & gray-dense to very dense (A-1)

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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Upon Completion n/a
After ___ Hrs.

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-brown & gray-dense to very dense (A-1)		21 25 34	NP	8
		22 26 30	NP	10
		25 17 16	NP	5
		16 18 25	NP	14

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	50/4"	NP	5
	18 16 12	NP	9
	50/3"	NP	4
	50/3"	NP	9

SAND & GRAVEL-brown & gray-dense to very dense (A-1)

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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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 & gray-dense to very dense (A-1)			50/3"		
	606.0	-85		NP	9
End Of Boring @ -85.0' Hollow Stem Augers To -10.0 Rotary Drilling To Completion CME Automatic Hammer 10.0' Of 4.0"ø Casing Used					

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-105			
-110			
-115			
-120			

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

PIER 7 SOIL BORING LOG

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10092

FILE NAME = 0456024_055_BoringLog6.dgn	USER NAME = akeaschall	DESIGNED - MFH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - MFH	REVISED -
	PLOT DATE = 11/9/2011	CHECKED - AJK	REVISED -

CITY OF ST. CHARLES

SOIL BORING LOGS – PIER 7
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER
SHEET NO. S55 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	277
		CONTRACT NO. 63650		
	ILLINOIS FED. AID PROJECT			

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