Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2638

SOIL BORING LOG

PAGE 1 of 3
DATE 5/17-18/2011
LOGGED BY RJ
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 Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-6024
Station 115+15
BORING NO. **BR-02**
Station 112+15 Red Gate Road
Offset Baseline
Barge Deck Elevation 687.5

Surface Water Elev. 686.0
Stream Bed Elev. 681.5
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
BARGE	686.0				
RIVER	681.5	-5			
SAND & GRAVEL-gray-medium dense (A-1-a)	679.5		2, 4, 6	NP	8
SAND with Gravel-gray-medium dense (A-1-b)	677.0	-10	4, 5, 5	NP	13
SAND & GRAVEL-brown-medium dense to dense (A-1)	672.0	-15	17, 22, 27, 7, 7, 14	NP	9
SAND with Gravel-brown-medium dense (A-1-b)	669.5	-20	7, 10, 12	NP	20
SAND & GRAVEL-gray-medium dense to dense (A-1)	650.5	-25	4, 8, 10, 8, 12, 12, 9	NP	6
GRAVEL with Sand-gray-medium dense (A-1-a)		-30	11, 13, 17	NP	10
		-35	11, 13, 9	NP	8
		-40	2, 10, 10	NP	5

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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Groundwater Elevation:
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Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
GRAVEL with Sand-gray-medium dense (A-1-a)	640.5	-45	10, 9, 9	NP	4
SAND & GRAVEL-gray-medium dense to very dense (A-1)		-50	12, 12, 15	NP	10
		-55	12, 15, 18	NP	9
		-60	12, 15, 38	NP	8
		-65	12, 18, 32	NP	9
		-70	8, 16, 19	NP	7
		-75	18, 28, 50/3"	NP	10
		-80	23, 32, 50/1"	NP	10

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First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND & GRAVEL-gray-medium dense to very dense (A-1)	597.5	-85	38, 50/3"	NP	11
		-90	44, 50/6"	NP	9
End Of Boring @ -90.0' Rotary Drilling CME Automatic Hammer		-95			
		-100			
		-105			
		-110			
		-115			
		-120			

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PIER 2 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_050_BoringLog1.dgn	USER NAME = okeaschall	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 2
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER
SHEET NO. S50 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	272
		CONTRACT NO. 63650		
	ILLINOIS	FED. AID PROJECT		

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