

Geo Services, Inc. SOIL BORING LOG PAGE 1 of 3  
 Geotechnical, Environmental & Civil Engineering  
 805 Arden Court, Suite 204  
 Naperville, Illinois 60565  
 (630) 351-2856

DATE 12/10/2010  
 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-05  
 Station 116+66 Red Gate Road  
 Offset 7.0' Right  
 Ground Surface Elev. 688.6

DEPTH (ft)	B	L	U	M	Surface Water Elev.	DEPTH (ft)	B	U	M
TH	O	C	O			TH	O	C	
	W	S	I				W	S	I
	S	Qu	ST				S	Qu	ST
0					n/a	0			
2	AS			31	687.6	2			92
2						3			
2						4	1.0B		31
2	0.4B			24	685.6	4			
7						7			
7						8			
8	NP			11		12	NP		8
9						13			
13	NP			14		14			9
10						16			
11						20			
13	NP			9		24	NP		6
8						26			
12						26			
11	NP			18		32			
3				99		34			
4						51	NP		9
6	0.6B			28		55	NP		7
3						60			
5						60			
5	1.5P			24		60			
2						60			
3						60			
4	0.5P			31		60			

12.0" TOPSOIL-black  
 SILTY CLAY LOAM-gray (A-4/A-6) 668.1  
 CLAY-gray-stiff (A-6) Wet  
 SAND & GRAVEL-brown-medium dense (A-1)  
 SAND & GRAVEL-brown & gray-medium dense to dense (A-1)  
 SAND-brown-medium dense (A-3)  
 SILTY CLAY LOAM-gray-medium stiff to stiff (A-4/A-6)  
 SAND & GRAVEL-gray-dense to very dense (A-1)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Sheby Tube Sample VS-Vane Shear Test  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) The Unit Dry Weight (pcf) is noted in Italics above moist (%)  
 NR-No Recovery PS-Pushed Spoon

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TH	O	C	O		TH	O	C	
	W	S	I			W	S	I
	S	Qu	ST			S	Qu	ST
0				n/a	0			
2				n/a	2			
2					3			
2					4			
2					4			
7					7			
7					8			
8	NP			11	12	NP		8
9					13			
13	NP			14	14			9
10					16			
11					20			
13	NP			9	24	NP		6
8					26			
12					26			
11	NP			18	32			
3				99	34			
4					51	NP		9
6	0.6B			28	55	NP		7
3					60			
5					60			
5	1.5P			24	60			
2					60			
3					60			
4	0.5P			31	60			

CLAY LOAM-gray-hard (A-6)  
 SAND & GRAVEL-gray-dense to very dense (A-1)  
 SAND & GRAVEL-gray-dense to very dense (A-1)  
 SAND-gray-dense (A-3)  
 CLAY LOAM-gray-hard (A-6)

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TH	O	C	O		TH	O	C	
	W	S	I			W	S	I
	S	Qu	ST			S	Qu	ST
0				n/a	0			
2				n/a	2			
2					3			
2					4			
2					4			
7					7			
7					8			
8	NP			11	12	NP		11
9					13			
13	NP			14	14			19
10					16			
11					20			
13	NP			9	24	NP		11
8					26			
12					26			
11	NP			18	32			
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2					60			
3					60			
4	0.5P			31	60			

CLAY LOAM-gray-hard (A-6)  
 SAND & GRAVEL-gray-dense to very dense (A-1)  
 SAND-gray-very dense (A-3)  
 End Of Boring @ -85.0'  
 Hollow Stem Augers To -10.0'  
 Rotary Drilling To Completion  
 CME Automatic Hammer  
 10.0' Of 4.0" Casing Used

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PIER 5 SOIL BORING LOG



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

FILE NAME = 0456024_053_BoringLog4.dgn	USER NAME = akeaschall	DESIGNED - MFH	REVISED -		<b>CITY OF ST. CHARLES</b> <b>SOIL BORING LOGS - PIER 5</b> <b>STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER</b> SHEET NO. S53 OF S56 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	CHECKED - AJK	REVISED -				04-00092-00-BR	KANE	440	275	
	PLOT DATE = 11/9/2011	DRAWN - MFH	REVISED -			CONTRACT NO. 63650					
		CHECKED - AJK	REVISED -			ILLINOIS FED. AID PROJECT					

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 11/9/2011