

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19720 **BORING LOG 2**
 Client: Baxter & Woodman, Inc. Sheet 3 of 4
 Project: Thorn Creek Bridge Replacement Date: 8/17/09
 Comments: Structure #099-6750 Location: Park Forest, IL. Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth ft.	C	S	T	R	B	N	Pen.	W	Uw	Qu	
697.6'	Continuous concrete - 8.0'												
695.6'	Limestone, deep												
	Brown-gray-black clay, some silt, trace sand & gravel, damp-very damp, stiff - Fill	1.55	12"					9	1.25	17.4			
		2.85	10"					4	0.75	22.6	98.1	0.9	
		3.85	16"					5	0.5	26.1	96.1	0.2	
649.6'	Gray-brown silt, some clay, trace sand & gravel, damp, medium dense (some wood at 9.0'-9.5') - Fill	10	4.55	15"				8	22	26.1			
646.6'	Gray clay, some silt, trace sand & gravel, damp, very tough	5	5.55	13"				6	11	10.2	106.2	2.6	
634.6'	Gray clay, some silt, trace sand & gravel, damp, stiff	15	6.05	18"				4	7	1.4	25.0	95.8	1.4
632.1'	Gray clay & silt, trace sand & gravel, damp, hard	7	7.55	18"				12	4.0	10.9	122.7	3.6	
628.6'	Gray sand & silt, trace gravel, damp, medium dense	20	8.55	15"				2	15		14.9		

Water Level - depth, ft. elev. ft.
 - while drilling: 21.0
 - after drilling: 14.0
 - 24 hrs. after drilling: 12.0

S - sample T - type (J, L, S, SS, M, S, etc.) ST (shaly) (silt) R - recovery length, ft.
 D - Standard Penetration Test (SPT), blow/ft. interval W - water content, %
 N - SPT, blow/ft. to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. U_w - dry unit weight of soil, lbs./cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

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677.1'	Gray sand & silt, trace gravel, damp											
	Gray fine sand, trace medium-coarse sand, gravel & silt, very damp, loose	9										
673.6'	Gray sand & silt, damp, loose	10	8.55	18"				3	7		15.9	
673.6'	Gray silt, some clay, trace sand, very damp, very loose	26	11.55	13"				2	3		15.3	
672.1'	Gray sand & silt, trace gravel, very damp, loose	12										
671.1'	Gray clay & silt, trace sand, very damp, very soft	13	8.55	14"				1	2	0.25	15.9	
		20	14.55	8"				1	1	0.25	15.6	
663.6'	Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, very loose	35	15.55	18"							15.8	
660.6'	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	40	15.55	12"				1	19		11.1	

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Elev. ft.	Description	Depth ft.	C	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	48	17.55	13"				11	20		13.1	
		50	18.55	18"				15	27		8.0	
645.6'	Gray medium-coarse sand & gravel, some fine sand, very damp, dense	58	19.55	18"				14	34		7.5	
		60	20.55	18"				17	32		7.9	

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	Gray medium-coarse sand & gravel, some fine sand, very damp, dense	65	21.55	18"				19	32		7.8	
628.6'	Weathered limestone bedrock, very dense	70	22.55	10"				100+	100+		11.6	
622.6'	End of Boring	75	23.55	4"				100+			8.2	

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DESIGNED: _____
 CHECKED: _____
 DRAWN: _____
 DATE: 10-12-12

DESIGNED: _____
 CHECKED: _____
 DRAWN: _____
 DATE: 10-12-12

**VILLAGE OF PARK FOREST, ILLINOIS
 THORN CREEK DRIVE BRIDGE OVER
 THORN CREEK**

**SOIL BORINGS
 STRUCTURE NO. 099-6750**

MUN. ST. SECTION COUNTY TOTAL SHEETS NO.
 1045 08-00093-00-BR WILL 41 26
 CONTRACT NO. 63755
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-90031030