

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19458 **BORING LOG** 2
 Client **Baxter & Woodman, Inc.** Sheet 1 of 4
 Comments _____ Project **Union Rd. over south branch of** Date **10/9/08**
Kishwaukee River Structural #056-0035
 Location **McHenry County, IL** Drilled By **AC**
 Equipment CME 45B H.A. Other Logged By **DA**

Elev., ft.	826.1	Description	Depth, ft.	1.3	S	T	R	B	N	Pen.	W	Uw	Qu
		Dark brown sand & silt, trace clay, gravel & organic matter, damp-very damp, very loose to loose - Fill											
			1		SS		13"	1	2				19.0
			5		SS		8"	8	7				17.0
			3		SS		15"	3	5				73.9
		Brown fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	10		SS		12"	10	17				8.6
		Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense	5		SS		15"	6	11				15.6
			15		SS		12"	5	10				17.2
			7		SS		15"	6	11				23.2
		Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, loose	20		SS		11"	3	7				14.2

Water Level— depth, ft. elev., ft. S - sample T - type: J (jar), SS (split-spoon), ST (shallow tube) R - recovery length, ft.
 - while drilling: 8.5 B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
 - after drilling: 8.5 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19458 **BORING LOG** 2
 Client **Baxter & Woodman, Inc.** Sheet 2 of 4
 Comments _____ Project **Union Rd. over south branch of** Date **10/9/08**
Kishwaukee River Structural #056-0035
 Location **McHenry County, IL** Drilled By **AC**
 Equipment CME 45B H.A. Other Logged By **DA**

Elev., ft.	826.1	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
		Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, loose to medium dense	9		SS		13"	4	8				13.8
			26		SS		14"	8	13				13.1
			11		SS		18"	9	17				12.2
			30		SS		18"	10	18				12.4
		Gray fine sand, very damp-saturated, medium dense	13		SS		10"	10	19				17.1
		Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense	35		SS		18"	11	19				9.1
			18		SS		18"	10	18				10.5
			40		SS		18"	8	15				14.1

Water Level— depth, ft. elev., ft. S - sample T - type: J (jar), SS (split-spoon), ST (shallow tube) R - recovery length, ft.
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F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19458 **BORING LOG** 2
 Client **Baxter & Woodman, Inc.** Sheet 3 of 4
 Comments _____ Project **Union Rd. over south branch of** Date **10/9/08**
Kishwaukee River Structural #056-0035
 Location **McHenry County, IL** Drilled By **AC**
 Equipment CME 45B H.A. Other Logged By **DA**

Elev., ft.	826.1	Description	Depth, ft.	40	S	T	R	B	N	Pen.	W	Uw	Qu
		Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense	17		SS		18"	9	17				11.9
			46		SS		18"	9	16				10.2
		Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense to dense	19		SS		18"	10	19				9.4
			50		SS		16"	7	14				12.9
			55		SS		18"	16	31				5.9
		Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	60		SS		18"	13	28				10.7

Water Level— depth, ft. elev., ft. S - sample T - type: J (jar), SS (split-spoon), ST (shallow tube) R - recovery length, ft.
 - while drilling: B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
 - after drilling: N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
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F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19458 **BORING LOG** 2
 Client **Baxter & Woodman, Inc.** Sheet 4 of 4
 Comments _____ Project **Union Rd. over south branch of** Date **10/9/08**
Kishwaukee River Structural #056-0035
 Location **McHenry County, IL** Drilled By **AC**
 Equipment CME 45B H.A. Other Logged By **DA**

Elev., ft.	826.1	Description	Depth, ft.	60	S	T	R	B	N	Pen.	W	Uw	Qu
		Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, dense	65		SS		18"	21	36				6.7
			70		SS		18"	18	32				6.6
		Gray medium-coarse sand & gravel, some fine sand, very damp-saturated, very dense	75		SS		8"	50+	50+				8.0
			80		SS		3"	50+	50+				5.2

Water Level— depth, ft. elev., ft. S - sample T - type: J (jar), SS (split-spoon), ST (shallow tube) R - recovery length, ft.
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F-111b

SOIL BORINGS
STRUCTURE NO. 056-3178

DESIGNED	BLB
CHECKED	AS
DRAWN	BCD
CHECKED	BLB

SHEET NO. 23 23 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0034	06-00320-02-BR	MCHENRY	65	48
CONTRACT NO. 63536					
JOB NO. C-91-140-11		ILLINOIS	FED. AID PROJECT	BRS-0034(107)	

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 STATE OF ILLINOIS - PROFESSIONAL ENGINEERING FIRM
 LICENSE NO. 184-002121
 EXP. 12/31/11
 PROJECT: UNION RD. OVER SOUTH BRANCH OF KISHAWAUNEE RIVER
 DRAWING: SOIL BORINGS
 DATE: 10/9/08
 SHEET: 23 OF 48