SOIL AND MATERIAL CONSULTANTS, INC.

File No. 19664 **BORING LOG** 1

Client Bollinger, Lach & Assoc., Inc. Sheet 1 of 4

Comments

Station 212+23 - 10' L. CL

Project Blivin St. bridge over Nipper-sink Creek - Structural #056-3024 Date 6/11/09

Location McHenry Co., IL Drilled By AC

Equipment ☒ CME 45B ☐ H.A. ☐ Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
768.4'	Bituminous concrete - 3.75"										
	Base - crushed gravel & fines - 18.25"										
	Brown fine-medium sand & gravel, some coarse sand, damp, loose - Fill		1	SS	10"	5 5 4	9		4.2		
764.4'	Dark gray-brown silt, some sand & gravel, trace clay, very damp, very loose - Fill	5	2	SS	13"	2 2 1	3		19.9		
762.4'	Brown fine sand, trace medium-coarse sand & gravel, very damp-saturated, very loose		3	SS	10"	1 1 2	3		13.9		
760.4'	Brown to gray fine-medium sand & gravel, some coarse sand, very damp-saturated, medium dense	10	4	SS	12"	4 7 11	18		5.9		
756.9'	Gray silt, some clay, trace sand & gravel, damp, medium dense		5	SS	12"	7 9 9	18		11.4		
755.4'	Gray clay, some silt, trace sand & gravel, damp, hard	15	6	SS	18"	12 17 23	40	4.5+	7.1	132.9	5.5
752.4'	Gray clay, some silt, trace sand & gravel, damp, very tough to very hard		7	SS	18"	14 21 30	51	4.5+	8.1	138.1	3.4
748.4'		20	8	SS	18"	17 32 44	72	4.5+	10.2	140.0	10.0+

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

Water Level — depth, ft. elev., ft.
- while drilling: 6.0
- after drilling: 6.0
- hrs. after drilling:

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 19664 **BORING LOG** 1

Client Bollinger, Lach & Assoc., Inc. Sheet 2 of 4

Comments

Project Blivin St. bridge over Nipper-sink Creek - Structural #056-3024 Date 6/11/09

Location McHenry Co., IL Drilled By AC

Equipment ☒ CME 45B ☐ H.A. ☐ Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay, some silt, trace sand & gravel, damp, very hard		9	SS	18"	21 34 52	86	4.5+	9.6	141.8	10.0+
		25	10	SS	18"	14 21 25	46	4.5+	10.6	140.8	9.8
			11	SS	18"	15 24 30	54	4.5	9.1	138.8	10.0+
		30	12	SS	18"	23 25 38	63	4.5+	8.7	142.3	10.0+
		35	13	SS	18"	16 24 35	59	4.5+	10.2	138.6	10.0+
		40	14	SS	18"	13 20 25	45	4.5+	8.7	140.7	10.0+

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F-111b

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File No. 19664 **BORING LOG** 1

Client Bollinger, Lach & Assoc., Inc. Sheet 3 of 4

Comments

Project Blivin St. bridge over Nipper-sink Creek - Structural #056-3024 Date 6/11/09

Location McHenry Co., IL Drilled By AC

Equipment ☒ CME 45B ☐ H.A. ☐ Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
727.4'	Gray clay, some silt, trace sand & gravel, damp, very hard										
	Gray fine-medium sand, some coarse sand & gravel, very damp, very dense to dense	45	15	SS	18"	12 20 32	52		8.8		
		50	16	SS	18"	10 17 22	35		7.5		
		55	17	SS	18"	11 14 20	34		7.0		
708.4'		60	18	SS	18"	12 13 16	29		8.1		

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Qu - unconfined compressive strength, tons / sq. ft.

Water Level — depth, ft. elev., ft
- while drilling: 6.0
- after drilling: 6.0
- hrs. after drilling:

F-111b

FILE NAME = W:\755-010 Blivin Phase II\CADD\Sheets\Structural\755-010 SHT-23 S- BORING LOGS.dgn

Bollinger, Lach & Associates, Inc. ITASCA, ILLINOIS	USER NAME = gonzalo	DESIGNED - SRT	REVISED -	McHENRY COUNTY DIVISION OF TRANSPORTATION BLIVIN STREET OVER NIPPERSINK CREEK	SOIL BORING LOGS STRUCTURE NO. 056-3191
		CHECKED - JJI	REVISED -		
	PLOT SCALE =	DRAWN - GM	REVISED -		
	PLOT DATE = 3/25/2011	CHECKED - JJI	REVISED -		SCALE: SHEET NO. 23 OF 28 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00355-00-BR	MCHENRY	69	48
		CONTRACT NO. 63583		
	ILLINOIS FED. AID PROJECT			