



Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Page 1 of 1

Date 10/06/10

ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG

SECTION (1X-1)VB-1 LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson DRILLING METHOD CME 550/HSA HAMMER TYPE Automatic

STRUCT. NO.100-0093(WB)0094(EB) Station	DEPTH (ft)	B L O C S Qu	U C S (tsf)	M O I S T (%)	Surface Water Elev. _____ ft	Stream Bed Elev. _____ ft	Groundwater Elev.: First Encounter _____ ft	Upon Completion _____ ft	After _____ Hrs.	DEPTH (ft)	B L O C S Qu	U C S (tsf)	M O I S T (%)
GRASS & TOPSOIL - 12 inches	444.2						SILTY CLAY: Brown (A-6) (continued)						
FILL: Brown, silty clay, some sand (A-7)	3 7 6		4.5 P	15						2 3 2		0.3 B	29
FILL: Grayish brown, silty clay (A-6)	442.2						CLAY: Brown, some sand, trace gravel (A-7)			1 3 3		0.9 B	20
CLAY: Gray (A-7)	440.7		0.8 B	21			SANDY CLAY: Brown, trace gravel (A-6)			4 5 5		0.7 B	13
SILTY CLAY: Brown and gray (A-7)	437.2		0.7 B	24			CLAY: Brown, some sand (A-7)			2 6 7		2.3 B	17
CLAY: Brown and gray, trace sand (A-7)	434.7		1.6 B	20			CLAYEY SHALE: Gray			28 39 50/4"		-	12
Some sand, trace gravel			2.0 P	24			Borehole continued with rock coring.						
SILTY CLAY: Brown (A-6)	427.2		<0.25 P	26									
			0.3 P	28									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



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ROCK CORE LOG

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SECTION (1X-1)VB-1 LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.100-0093(WB)0094(EB) Station	CORING BARREL TYPE & SIZE	DEPTH (ft)	CORRE (#)	RECOVER (%)	R Q D (%)	CORE T I M E (min/ft)	S T R E N G T H (tsf)	M O I S T U R E (%)	NBX conv dbl bbl split inner	Core Diameter _____ In	Top of Rock Elev. _____ ft	Begin Core Elev. _____ ft	Ground Surface Elev. _____ ft
CLAYEY SHALE: Gray (continued)		408.0	1	100	83	3							
SHALE: Gray							60.0	4					
		-40	2	100	95	3							
							17.0	5					
		-45	3	100	93	3							
							32.0	4					
		-50	4	100	99	2							
							58.0	3					
		-55	5	100	100	3							
							90.0	3					

Color pictures of the cores Yes
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



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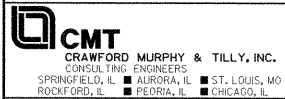
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SHALE: Gray (continued)													
		6	100	100	3								
							67.0	3					
Boring terminated at 63.2 ft.													

Color pictures of the cores Yes
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

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CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

USER NAME = Gary Davis	DESIGNED - MCC	REVISED -
	CHECKED - ATI	REVISED -
PLOT SCALE =	DRAWN - GLD	REVISED -
PLOT DATE = 12/7/2011	CHECKED - ATI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS V
STRUCTURE NO. 100-0093 (W.B.) & 100-0094 (E.B.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1X-1)VB-1	WILLIAMSON	367	204
			CONTRACT NO. 98859	

SHEET NO. S-380F S-41 SHEETS

ILLINOIS FED. AID PROJECT