Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 2

Date 11/10/09

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

SECTION _____ LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson DRILLING METHOD CME 55LC w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. SB-11
Station 1748+32.51
Offset 13.21ft Rt
Ground Surface Elev. 446.3 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 432.8 ft ▼
Upon Completion - ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches	445.28				
FILL: Brown, silty clay (A-6)			2		
			1	1.5	20
			3	P	
FILL: Brown and dark brown, clay, trace sand, coal, shale fragments (A-7)	443.28		4		
			4	1.7	20
		-5	4	B	
SILTY CLAY: Grayish brown, trace to some sand (A-6)	440.78		3		
			1	0.2	31
			1	B	
CLAY: Brown (A-7)	438.28				
Shelby tube - 19 inches recovery. Consolidation test performed on sample with results shown on the Consolidation Test Summary.		-10		2.0	26
SILTY CLAY: Grayish brown and brown (A-6)	435.53		WH		
			2	0.6	24
			3	B	
SILTY CLAY: Grayish brown and brown, trace sand (A-7) ▼	433.28		1		
			2	0.8	21
		-15	3	B	
CLAY: Gray and brown, trace to some sand (A-7)	430.78		1		
			2	1.3	21
			2	B	
Becomes brown and gray, trace sand			1		
			2	1.4	27
		-20	3	B	
CLAY: Gray and brown, trace to some sand (A-7) *(continued)*					
Trace to some sand			1		
			3	1.4	22
			3	B	
			1		
			2	1.1	21
		-25	3	B	
Becomes brown, some sand, no gravel			1		
			1	0.9	18
			5	B	
Trace gravel			4		
			6	2.7	17
		-30	8	B	
Hard drilling at 31 feet.	415.28				
CLAYEY SHALE: Gray					
			45		
			50/1"	-	15
		-35	50/2"		
			50/3"	-	7
		-40	50/3"		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SHALE: Gray *(continued)*	405.78		100/0"	-	
No recovery		-45			
		-50			
		-55			
		-60			

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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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

FILE NAME = L:\IDOT\ 0906603\Draw\CADD_Sheets\ STRUCTURAL PLANS\MSE WALLS\ 100-W002\ 100W002-98859-018-Borings.dgn	USER NAME = Gary Davis	DESIGNED - JMW	REVISED -
		CHECKED - REB	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	DRAWN - AJK	REVISED -
	PLOT DATE = 12/7/2011	CHECKED - REB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 100-W002
SHEET NO. 18 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1X-1) VB-1, B-1, N-4, R-3	WILLIAMSON	367	274
		CONTRACT NO. 98859		
	ILLINOIS	FED. AID PROJECT		