



SOIL BORING LOG

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Date 9/8/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp J over Ramp A LOGGED BY KEG
 SECTION (X1-6-2)HB-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E
 COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO.	DEPT H	BLOWS	UCS	MOIST	Surface Water Elev.	DEPT H	BLOWS	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
100-0098									
BORING NO. B-10					Groundwater Elev.:				
Station 9+51.13					First Encounter 426.3				
Offset 39.2 ft Lt					Upon Completion				
Ground Surface Elev. 457.31					After				
					Hrs.				
Grass cover and topsoil	456.3				436.8				
FILL: Brown, silty clay (A-6)	8				CLAYEY SHALE: Brown and gray				
	6	4.5	14			11			
	6	P				50/5"	-	11	
SILTY CLAY: Brown, trace sand (A-7)	4				433.3				
	4	1.6	18		SHALE: Gray				
	6	B				50/2"	-	7	
CLAY: Brown, trace sand (A-7)	3				433.3				
	3	0.8	21			50/4"	-	6	
	3	B				50/2"			
Becomes brown and gray, no sand	3				426.8				
	4	2.2	20		CLAYEY SHALE: Gray				
	5	B				19			
						27	-	16	
Becomes brown, some sand, trace gravel	3				424.8				
	4	2.8	18		End of Boring				
	8	P							
Trace sand	3								
	7	2.7	15						
	9	B							
SILTY CLAY: Brown, some sand (A-6)	3								
	4	1.1	20						
	6	B							
CLAY: Brown and gray, some sand, trace coal (A-7)	14								
	9	2.4	16						
	9	B							
With limestone rock									

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, form 137 (Rev. 8-99)



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Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
100-0098									
BORING NO. B-11					Groundwater Elev.:				
Station 11+09.21					First Encounter				
Offset 26.3 ft Lt					Upon Completion				
Ground Surface Elev. 466.22					After				
					Hrs.				
Grass cover and topsoil	465.2				CLAY: Brown, trace sand (A-7) (continued)				
FILL: Brown, silty clay (A-6)	8				Becomes brown and gray, some sand				
	8	5.6	13			2			
	6	S				3	0.7	19	
						4	B		
SILTY CLAY: Brown (A-6)	4								
	4					2			
	5	2.0	18			3	0.7	20	
	5	S				4	B		
CLAY: Brown, some sand (A-7)	3					3			
	3					5	2.2	15	
	5	B				9	B		
SANDY CLAY: Brown (A-6)	4					5			
Recovery 20/24 inches; Dry Density - 109.3 pcf; Unconfined compression test result reported in Qu (tsf) column	5	2.2	16			6	2.0	18	
Becomes gray	7	B				7	B		
Becomes brown	3								
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.0	16						
LL-30, PL-17, PI-13	5	B							
SAND: Brown, fine, some clay (A-2)	5								
	6	0.9	17						
	6	B							
SANDY CLAY: Brown (A-4)	6								
	6								
CLAY: Brown, trace sand (A-7)	3								
	5	2.8	20						
	7	S							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 100-0098

SHEET NO. 32 OF 33 SHEETS

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	715
CONTRACT NO. 78182			ILLINOIS FED. AID PROJECT	