Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Date 2/19,22/2010

ROUTE FAP 534 (IL 94/IL 116) DESCRIPTION IL 94 over Ellison Creek LOGGED BY KEG

SECTION 109BR-1 LOCATION Media TWP, NW 1/4, Sec 18, T9N, R4W and NE1/4 Sec 13, T9N, R5W

COUNTY Henderson DRILLING METHOD CME 55LC w/ HSA/Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 036-0004
Station

BORING NO. APS-BH#3
Station 270+96
Offset 53.0 ft Rt
Ground Surface Elev. 595.57 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 584.6 ft ▼
Upon Completion - ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, sandy clay loam (A-4)			4		
			5	NC	16
			4		
	592.57				
SILTY CLAY: Brown (possible fill) (A-6)			4		
			5	1.5	24
		-5	5	B	
Becomes grayish brown			2		
			2	1.5	24
			3	P	
	587.57				
SILTY CLAY LOAM: Brown (A-6)			WH		
			1	<0.25	28
		-10	1	P	
	585.07				
SILTY CLAY: Grayish brown (A-6)			1		
			2	0.2	34
			2	B	
			WH		
			WH	0.3	44
		-15	WH	B	
	580.07				
SILTY CLAY LOAM: Grayish brown (A-7)			WH		
	578.57		WH	<0.25	32
SANDY LOAM: Grayish brown, fine (A-2)			2	P	
With clay deposits			1		
			3	NC	17
		-20	6		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM: Grayish brown, fine (A-2) (continued) Added bentonite into augers			WH		
			WH	NC	21
			1		
	572.57				
SAND: Brown, fine (A-3)			3		
			6	NC	
		-25	9		
Poor recovery - fine gravel			5		
			5	NC	
			5		
	567.57				
CLAY LOAM: Gray, trace fine gravel (A-7)			4		
			4	2.1	17
		-30	6	B	
			3		
			4	2.1	17
		-35	6	B	

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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM: Gray, trace fine gravel (A-7) (continued)					
	553.57				
SANDY CLAY LOAM: Gray, some organics (A-6)			3		
			7	1.7	21
		-45	10	B	
	548.57				
SILTY CLAY LOAM: Dark brown (A-7)			4		
			5	1.4	23
		-50	7	B	
Some organics			7		
			12	1.7	52
		-55	13	S	
	538.57				
CLAY: Gray (A-7)			4		
			7	2.4	4
		-60	10	B	

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Gray (A-7) (continued)					
	532.57				
SAND: Grayish brown, fine to coarse, trace to some fine gravel (A-1)			7		
			31	NC	
		-65	26		
			7		
			21		
		-70	18		
	524.57				
CLAY: Gray (A-7)			7		
			7	2.1	16
		-75	11	B	
			8		
			8	1.2	21
	515.57	-80	10	B	

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