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

SOIL BORING LOG

Date 2/23/10

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. AS-BH#4
Station 271+29
Offset 11.5 ft Lt
Ground Surface Elev. 600.04 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 581.5 ft ▼
Upon Completion - ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM: Grayish brown, trace fine gravel (A-7) (continued)					
			4		
			6	1.8	21
		-45	8	P	
			3		
			3	1.7	22
		-50	5	B	
			3		
			4	1.7	24
		-55	6	B	
	541.54				
SILTY CLAY LOAM: Dark brown, some organics (A-6)			5		
			10	2.5	59
		-60	13	S	
SILTY CLAY LOAM: Dark brown, some organics (A-6) (continued)					
	536.54				
CLAY: Gray (A-7)			6		
			7	1.3	27
		-65	13	B	
	534.04				
SANDY CLAY LOAM: Gray (A-4)			8		
	530.54		20	2.7	16
SAND: Gray, medium to coarse sand with gravel and cobble (A-1)		-70	50	B	
	527.04				
SAND: Brown, fine to medium (A-3)			2		
			12	NC	
		-75	17		
Heavy gravel or cobbles encountered at approximately 77.5 feet.	522.54				
CLAY: Grayish brown, trace fine gravel (A-7)			6		
			6	1.9	20
		-80	9	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)

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

SOIL BORING LOG

Date 2/23/10

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. AS-BH#4
Station 271+29
Offset 11.5 ft Lt
Ground Surface Elev. 600.04 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 581.5 ft ▼
Upon Completion - ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Grayish brown, trace fine gravel (A-7) (continued) Mud rotary drilling started at 80 feet.					
			9		
			9	1.6	22
		-85	11	B	
	513.04				
SAND: Brown, fine to medium, some gravel (A-3)					
			14		
			36	NC	
		-90	32		
	508.04				
SAND: Coarse, with fine gravel (A-1)					
Sand blow in prevented sampling with SPT from 94 to 95 feet.			23	NC	24
	505.54	-95			
Possible cobble encountered at approximately 93.5 feet.					
CLAYEY SHALE: Brown					
			50		
	500.04-100		30	NC	20

End of Boring
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)

FILE NAME =	USER NAME = elegemann	DESIGNED -	REVISED -
I:\08044_IL94\Cad\S_Plans\0360072-68693.dgn		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN KAK	REVISED -
	PLOT DATE = 12/16/2010	CHECKED EML	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORNER & SHIFRIN, INC. ENGINEERS

BORING LOGS
STRUCTURE NO. 036-0072

SHEET NO. 20 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-1	HENDERSON	56	33
		CONTRACT NO. 68693		
		ILLINOIS FED. AID PROJECT		