Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

Date 1/7/09

FAP 665 (IL 116) & FAP
ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
(136, 137)W&RS-3; 136R;
SECTION 109BR-2 LOCATION Media Township; SW 1/4, SEC. 35, TWP. 9N, RNG. 4W,
COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 036-0034 (existing)
Station
BORING NO. 53
Station 19+67
Offset 11 ft Lt
Ground Surface Elev. 742.1 ft

Surface Water Elev. 733.10 ft
Stream Bed Elev. 730.70 ft
Groundwater Elev.:
First Encounter 724.1 ft
Upon Completion 733.1 ft
After ____ Hrs. Backfilled ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT - 2 Inches — 741.9				
FILL: Milled asphalt and crushed rock		4		
740.1		5	2.5	19
FILL: Brown and dark brown sandy clay loam (A-6)		5	P	
738.6				
FILL: Dark brown clay loam (A-7)		3		
No recovery - auger cuttings obtained.		3	-	30
	-5	4		
736.6				
CLAY: Dark brown (A-7)		1		
		3	0.9	33
		3	B	
734.1				
SILTY CLAY LOAM: Gray (A-7)		1		
▽		1	0.3	27
	-10	3	B	
731.6				
SANDY CLAY LOAM: Gray, trace to some fine gravel (A-6) Approximately 8 inches of soft sediment observed in stream bed south of bridge to approximate El. 730.		2		
		2	1.2	13
		5	S	
729.1				
SANDY LOAM: Gray (A-2)		2		
		4	-	20
	-15	4		
		2		
		5	0.8	20
▽		7	S	
		12		
		14	0.9	20
	-20	18	S	

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM: Gray (A-2) (continued)		16		
		26	1.3	20
		40	S	
		18		
		100	-	18
	-25			
Trace thin organic deposits		28		
		100	0.9	21
			S	
		5		
		9	-	28
	-30	9		
Harder drilling at 32 feet.				
710.1				
SILTSTONE with SANDY SHALE: Gray		100	-	10
Upon removal of lead auger, carbide teeth were worn off. 707.6				
End of Boring at 34.5 ft.	-35			
	-40			

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)
AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

Date 1/7/09

FAP 665 (IL 116) & FAP
ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
(136, 137)W&RS-3; 136R;
SECTION 109BR-2 LOCATION Media Township; SW 1/4, SEC. 35, TWP. 9N, RNG. 4W,
COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 036-0034 (existing)
Station
BORING NO. 54
Station 20+38
Offset 13 ft Rt
Ground Surface Elev. 741.4 ft

Surface Water Elev. 733.10 ft
Stream Bed Elev. 730.70 ft
Groundwater Elev.:
First Encounter 730.4 ft
Upon Completion 729.4 ft
After ____ Hrs. Backfilled ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CRUSHED ROCK - 8 Inches estimated — 740.7				
FILL: Brown silty clay loam (A-7)		3		
		2	2.0	24
		3	P	
		1		
737.4				
FILL: Brown and dark brown silty clay (A-6)		2	0.5	29
	-5	3	P	
735.9				
CLAY LOAM: Dark brown (A-7)		1		
		1	0.4	32
		2	B	
733.4				
SANDY CLAY LOAM: Gray, trace organics (A-7)		1		
		2	0.6	20
731.9		4	B	
SANDY LOAM: Gray, trace fine gravel (A-2)	-10			
730.9				
CLAY LOAM: Brown (A-7) Approximately 8 inches of soft sediment observed in stream bed south of bridge to approximate El. 730.		1		
▽		2	1.9	17
		3	B	
Becomes gray and brown				
728.4				
SANDY LOAM: Gray (A-2)		2		
		4	2.5	20
	-15	5	P	
		3		
		5	2.5	19
		6	P	
		5		
		9	0.8	21
	-20	12	S	

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM: Gray (A-2) (continued)		6		
		15	2.8	19
		28	P	
		17		
		46	0.7	20
	-25	97	S	
		27		
		100	-	17
Becomes light brown, trace to some organics and trace fine gravel		4		
		5	-	24
	-30	8		
Hard drilling at 32 feet.				
709.4				
SILTSTONE with SANDY SHALE: Gray		100	-	18
Carbide teeth on lead auger worn off in B-53. Additional augering with second lead auger in B-54 stopped at 33.5 feet due to possible breakage or excessive wear on carbide teeth. 707.4		100	-	16
End of Boring at 34.0 ft.	-35			
	-40			

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)
AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)

FILE NAME = miscsheets.dgn	USER NAME = ghidinaam	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/29/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3;136R;109BR-2	HENDERSON		162
		CONTRACT NO. 88773		
	ILLINOIS FED. AID PROJECT			