STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 1/21,22/2009

ROUTE FAP 693 DESCRIPTION Bridge Replacement LOGGED BY SCI

SECTION (119 BR-2) BR LOCATION Mackinaw Township; N 1/2, SEC. 9, TWP. 24N, RNG. 2W,
Latitude , Longitude

COUNTY Tazewell DRILLING METHOD CME 1050 - Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 090-0064 (existing)
Station

BORING NO. B-1
Station 772+51
Offset 24.50ft Rt
Ground Surface Elev. 599.67 ft

Surface Water Elev. 581.19 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter - ft
Upon Completion - ft
After 24 Hrs. 580.7 ft ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, sandy clay, trace fine gravel (A-6)			3		
Mud rotary drilling began at the ground surface and casing installed to 35 feet.	597.67		5 5	-	17
SAND: Brown, fine, trace fine gravel (A-3)			WH		
No recovery			WH WH	-	
	594.17	-5			
SILTY CLAY: Brown, trace to some sand, trace fine gravel (A-6)			1		
	592.67		2 1	1.0 P	20
SAND: Brown, fine, some clay, trace fine gravel (A-2)	591.67				
SANDY CLAY: Brown, trace fine gravel (A-6)			WH		
		-10	2 1	1.5 P	24
	589.17				
SILTY CLAY: Brown, trace to some sand, trace fine gravel (A-6)			WH		
	587.67		WH 1	0.4 B	26
SILTY LOAM: Brown (A-4)	586.67				
SANDY LOAM: Dark brown, trace fine gravel (A-2)			1		
		-15	2 3	-	22
Clayey gravel			4		
			6 4	-	20
	581.67				
GRAVELLY SAND: Brown, medium to coarse (A-1)			11		
		-20	14 13	-	21
SANDY GRAVEL: Brown (A-1)	579.17				
			10		
Driller indicated cobbles and boulders encountered from 20 to 30 feet. Casing difficult to install from 20 to 30 feet.			13 12	-	13
			34		
	575.42		21	-	13
SAND: Brown, fine to medium, trace fine gravel (A-3)		-25	19		
Gravel encountered during drilling from approximately 25 to 26 feet.			17		
			10 12	-	13
	571.67				
SANDY LOAM: Brown (A-2)			17		
		-30	17 18	-	17
	565.67		23		
CLAY LOAM: Gray, trace fine gravel (A-7)		-35	39 44	-	18
		-40	90 48/3"	3.7 S	8

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
IDOT

SOIL BORING LOG

Date 1/21,22/2009

ROUTE FAP 693 DESCRIPTION Bridge Replacement LOGGED BY SCI

SECTION (119 BR-2) BR LOCATION Mackinaw Township; N 1/2, SEC. 9, TWP. 24N, RNG. 2W,
Latitude , Longitude

COUNTY Tazewell DRILLING METHOD CME 1050 - Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 090-0064 (existing)
Station

BORING NO. B-1
Station 772+51
Offset 24.50ft Rt
Ground Surface Elev. 599.67 ft

Surface Water Elev. 581.19 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter - ft
Upon Completion - ft
After 24 Hrs. 580.7 ft ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM: Gray, trace fine gravel (A-7) *(continued)*					
			36		
			55 45/2.5"	5.0 S	9
		-45			
			20		
			34 50	9.9 B	10
		-50			
			21		
			57 45/4.5"	7.2 B	8
		-55			
			24		
			43 61	10.9 S	9
		-60			
CLAY LOAM: Gray, trace fine gravel (A-7) *(continued)*					
			12		
			16 21	4.8 B	10
		-65			
			12		
			20 36	6.6 S	10
	529.67	-70			
End of Boring					
		-75			
		-80			

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)

DESIGNED	RRD
CHECKED	AJS
DRAWN	KAS
CHECKED	AJS

BORING LOGS (1 OF 2)
S.N. 090-0177
STRAND ASSOCIATES, INC.

SHEET NO. 20	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	693	(119BR-2) BR	TAZEWELL	65	37
22 SHEETS			CONTRACT NO. 68660		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		