STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1842	106BR	ST. CLAIR	61	43
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22
22 SHEETS

Contract No. 76129

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

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Date 7/1/02

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION , SEC., TWP, 2S, RNG, 8W, 3 PM

COUNTY St. Clair CORING METHOD Tri-Cone Roller Bit

STRUCT. NO. ex. 082-0089 Station 669+65.50
CORING BARREL TYPE & SIZE
Core Diameter 2 in
Top of Rock Elev. 369.10 ft
Begin Core Elev. 369.10 ft

BORING NO. #8 Station 669+15 Offset 28.50ft Lt Ground Surface Elev. 410.1 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray LIMESTONE	369.10			50	4	
	368.10				3	
Gray SHALE with Calcareous Seams	367.10					
			22	25	6	
Gray SHALE with Sandstone Seams			22	25	6	
	-15		22	25	6	
			22	25	7	
			22	25	10	
			22	25	8	
			22	25	7	
	360.10 -50					
End of Core and Boring	-55					
	-60					

Color pictures of the cores
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 7/12/02

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION , SEC., TWP, 2S, RNG, 8W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. ex. 082-0089 Station 669+65.50

BORING NO. #9 E. Pier Station 670+16 Offset 27.00ft Lt Ground Surface Elev. 409.8 ft

Surface Water Elev. 407.7 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion 400.8 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Silty Clay LOAM		2		
		2	0.7	
		3	S/10	25
	-5	2		
	403.8	3	0.8	
		4	S/10	28
Gray Silty CLAY with some Organics and Concrete Rubble		7		
		8	1.1	
		4	S/15	97
	400.8 ▽			
Gray Sandy CLAY	-10	0		
		0		
	398.8	5	NC	34
Gray Silty CLAY		0		
		0	0.3	
		0	S/10	33
	-15	0		
		0	0.4	
	393.3	3	B	30
Gray Silty CLAY with Organics Cru & Sample Before = 50.941 g Cru & Sample After = 49.331 g Cru Wt = 27.980 % Organics = 7.0 %		0		
		0	0.7	
		2	S/10	39
	389.8 -20	0		

	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
		2		
Gray Silty CLAY		2	0.5	25
			S/10	
	388.3			
Gray Clayey SAND	387.3	15		23
Gray Limestone GRAVEL (weathered)	386.9	50/2"	NC	
Borehole continued with rock coring.	-25			
	-30			
	-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)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
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ROCK CORE LOG

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Date 7/12/02

ROUTE FAS 1842 DESCRIPTION IL 156 over Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION , SEC., TWP, 2S, RNG, 8W, 3 PM

COUNTY St. Clair CORING METHOD Tri-Cone Roller Bit

STRUCT. NO. ex. 082-0089 Station 669+65.50
CORING BARREL TYPE & SIZE
Core Diameter 2 in
Top of Rock Elev. 386.30 ft
Begin Core Elev. 386.30 ft

BORING NO. #9 E. Pier Station 670+16 Offset 27.00ft Lt Ground Surface Elev. 409.8 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray LIMESTONE with numerous weathered joints	386.30		67	38	4	
	-25		67	38	4	
			67	38	7.5	
			67	38	4.5	
			67	38	4	
			67	38	5.5	
	-30		67	38	4	
	379.30		67	38	5	
SHALE Seam	378.80		67	38	2.5	
Gray LIMESTONE	377.30					
End of Core and Boring	-35					
	-40					

Color pictures of the cores
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

BORING LOGS
F.A.S. ROUTE 1842 - SECTION 106BR
ST. CLAIR COUNTY
STATION 669+65.50
STRUCTURE NO. 082-0387

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