



ROCK CORE LOG

Date 3/19/09

ROUTE FAI-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY MDM

SECTION 60-1B-1 LOCATION SEC.30, TWP.4N, RNG.9W, PM

COUNTY Madison CORING METHOD Core Barrel

STRUCT. NO. 060-0345 CORING BARREL TYPE & SIZE NX Wireline
 Station _____ Core Diameter 1.9 in
 BORING NO. B-4 (SE Canal) Top of Rock Elev. 299.20 ft
 Station 1202+58.22 Begin Core Elev. 299.20 ft
 Offset 213.01 ft RT
 Ground Surface Elev. 397.7 ft

DEPTH (ft)	CORE (#)	RECOVER (%)	Q (%)	R (%)	CORE TIME (min/ft)	STRENGTH (tsf)
299.20	1	98	98		5	
-100						
LIMESTONE: Light Gray, finely very hard Crystalline, wavy calcite veins with Blue Gray SILTSTONE						
Core Run 1 - RMR Rating 85 : I - Very Good Quality Rock Mass						
						1102.3
-105						
LIMESTONE: Light Gray, finely very hard Crystalline, wavy calcite veins						
	2	100	100		4	
-110						
Core Run 2 - RMR Rating 85 : I - Very Good Quality Rock Mass						
						1257.8
-115						
LIMESTONE: Light Gray, finely Crystalline, medium bedded with chert nodules and some Blue/Gray Siltstone, very hard Interbedded.						
	3	100	97		6	

Color pictures of the cores Yes
 Cores will be stored for examination until 2012
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)



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 Offset 213.01 ft RT
 Ground Surface Elev. 397.7 ft

DEPTH (ft)	CORE (#)	RECOVER (%)	Q (%)	R (%)	CORE TIME (min/ft)	STRENGTH (tsf)
-120						
Core Run 3 -RMR Rating 77 : II - Good Quality Rock Mass						
						368.6
-125						
LIMESTONE: Light Gray, finely Crystalline, Medium bedded with Chert nodules and some Blue/Gray Siltstone						
	4	100	100		3	
-130						
Core Run 4 -RMR Rating 80 : I - Very Good Quality Rock Mass						
						648.7
-135						
Terminated @ 128.5 ft @ EL. 269.21						

Color pictures of the cores Yes
 Cores will be stored for examination until 2012
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)



SOIL BORING LOG

Date 11/30/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY NEB

SECTION Bridge over Chain of Rocks Canal LOCATION SEC.29, TWP.4N, RNG.9W, PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0345
 Station _____
 BORING NO. B-5
 Station 1211+85.82
 Offset 17.07 ft RT
 Ground Surface Elev. 448.4 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	U (tsf)	M (tsf)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	U (tsf)	M (tsf)
447.44				Brown Fine SAND, with Silt (continued)	427.44			
	2			Gray FINE SAND with Silt, Sand=93%, Silt=7%, Gravel=0%		6		
	4					10		
	5					9		
444.94				Brown SILTY SAND	424.94			
	5					8		
443.94			22	Brown SILTY SAND, with Clay		14		
	6					15		
	8							
442.44				Brown SANDY SILT	422.44			
	5					6		
	6		9			9		
	8			Brown Fat CLAY, trace Sand	421.44			
						11		
439.94				Brown SILTY SAND	419.94			
	6					9		
	11		10	Brown FINE SAND		12		2
	10					14		
437.44				Brown SANDY CLAY				
	5							
436.44				Brown FINE SAND, trace Silt				
	11		17					
	16							
434.94				Brown SILTY SAND	414.94			
	8					2		
	11		15	Brown SILT, with Sand		2	1.5	29
	9					2		
432.44				Brown FINE SAND, with Silt				
	8							
	12							
	11							
429.94				Brown FINE SAND, with Silt	409.94			
	8					2		
	13			Brown CLAYEY SILT		3		29
	10					3		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Edge, 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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USER NAME = jmgus	DESIGNED - BWC	REVISED -
FILE NAME = 0600345-76A91-111-SBL.DGN	CHECKED - LGP	REVISED -
PLOT SCALE = NONE	DRAWN - JM	REVISED -
PLOT DATE = 3/18/2011	CHECKED - BSK	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS STRUCTURE NO. 060-0345

BRIDGE SHEET NO. 111 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	490
CONTRACT NO. 76A91				
ILLINOIS FED. AID PROJECT				