Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

ROCK CORE LOG

Date 3/9/09

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
Top of Rock Elev. 300.39 ft
Begin Core Elev. 300.39 ft

BORING NO. B-2 (NW Canal)
Station 1198+89.25
Offset 33.73ft RT
Ground Surface Elev. 395.4 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
-120					1048.3
LIMESTONE: Gray, Finely Crystalline, Trace SILTSTONE band, Trace chert nodules	4	93	94	5	
Core Run 4 - RMR Rating 85 : I -Very Good Quality Rock Mass					
-125					
Terminated @ 30.32 ft into Bedrock @ EL. 270.07					
-130					
-135					

Color pictures of the cores Yes
Cores will be stored for examination until 2012
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Date 3/16/09

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 DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0345
Station

Surface Water Elev. 415.7 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After Hrs. ft

BORING NO. B-3 (NE Canal)
Station 1203+80.97
Offset 15.08ft RT
Ground Surface Elev. 396.4 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown, Fine SAND, with Silt,Gravel			
	4		
	1		
	1		
392.44			
Brown Fine SAND, with Silt, Gravel (A-1-b) Sand=66.4%, Gravel=26.2%, Silt=7.4%	8		
-5	9		
390.94	8		
Brown Fine SAND, with Silt, Trace Gravel			
	3		
	5		
	7		
387.44			
Gray, Medium SAND, Trace Gravel (A-3) Sand=98.5%, Gravel=0.3%, Silt/CL=1.2%	4		
-10	7		
385.94	5		
Gray, Medium SAND, Trace Gravel			
	2		
	4		
	6		
382.44			
Gray, Medium SAND, Trace Gravel (A-1-b) Sand=95.4%, Gravel=3.2%, Silt/CL=1.4%	3		
-15	3		
380.94	6		
Gray, Medium SAND, Trace Gravel			
	6		
	4		
378.44	10		
Gray, Fine SAND, Trace Gravel			
	16		
-20	13		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray, Fine SAND, Trace Gravel 375.94 *(continued)*	11		
Gray, Fine SAND, Trace Gravel	5		
	12		
373.44	13		
Gray, Fine SAND			
	5		
-25	12		
	12		
369.94			
Gray, Fine SAND (A-3) Sand=97.7%, Silt/Cl.=2.3%, Gravel=0%	6		
	10		
368.44	21		
Gray, Medium SAND, Trace Gravel			
	5		
-30	7		
365.94	7		
Gray, Fine SAND			
	9		
-35	16		
359.94	26		
Gray, Medium SAND, Trace Gravel			
	7		
	12		
-40	16		

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)

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SOIL BORING LOG

Date 3/16/09

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 DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0345
Station

Surface Water Elev. 415.7 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After Hrs. ft

BORING NO. B-3 (NE Canal)
Station 1203+80.97
Offset 15.08ft RT
Ground Surface Elev. 396.4 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray, Medium SAND,Trace Gravel *(continued)*			
351.44			
Gray, Medium SAND, with Gravel (A-1-b) Sand=79.9%, Gravel=17.5%, Silt/CL=2.6%	5		
-45	7		
349.94	8		
Gray, Medium SAND, with Gravel			
	6		
	6		
346.44	21		
Gray, Medium SAND, with Gravel			
-55			
	11		
	7		
336.44	8		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown, Medium SAND, with Gravel			
-65			
	11		
	12		
326.44	13		
Brown Medium SAND, Trace Gravel			
-75			
	8		
	10		
316.44	14		

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)

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jmlgus
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Kaskaskia Engineering Group, LLC	USER NAME = jmlgus	DESIGNED - BWC	REVISED -
	FILE NAME = 0600345-76A91-108-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. 108 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	487
		CONTRACT NO. 76A91		
		ILLINOIS FED. AID PROJECT		