Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 7/16/10

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

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

COUNTY Madison DRILLING METHOD HSA/Casing HAMMER TYPE Automatic

STRUCT. NO. 060-0345
Station

BORING NO. B-18A
Station 1203+86.65
Offset 48.96ft LT
Ground Surface Elev. 392.6 ft

Surface Water Elev. 417.5 ft
Stream Bed Elev. ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray-brown Fine to Medium SAND, with weathered rock *(continued)*		-85			
		-90			
Gray CLAYEY SAND, with Gravel	301.10		10		
			20		
			12		
Borehole continued with rock coring	297.60	-95			
		-100			

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
Division of Highways

ROCK CORE LOG

Date 7/16/10

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

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

COUNTY Madison CORING METHOD Core Barrel

STRUCT. NO. 060-0345
Station

CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 1.9 in
Top of Rock Elev. 297.60 ft
Begin Core Elev. 297.60 ft

BORING NO. B-18A
Station 1203+86.65
Offset 48.96ft LT
Ground Surface Elev. 392.6 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Light gray, Finely Crystalline, Trace seams, Massive bedded	297.60		1	81	76	6	
LIMESTONE: Light gray, Finely Crystalline, with Siltstone, Banded	295.85						
	292.80	-100					
LIMESTONE: Light gray, Finely Crystalline, Trace seams, Massive bedded			2	83	60	8.4	
LIMESTONE: Light gray, Finely Crystalline, Massive bedded	292.00		3	98	98	4.7	
		-105					
	287.10		4	94	87	4.3	
CORE Run 4 -- RMR Rating 77: II - Good Quality Rock Mass							966.2
CHERTY LIMESTONE: Gray, finely Crystalline, Interbedded Siltstone, Thin bedded							
LIMESTONE: Light gray, Finely Crystalline, Trace seams, Massive bedded		-110					
			5	100	92	3.1	
		-115					

Color pictures of the cores Yes
Cores will be stored for examination until 2013
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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ROCK CORE LOG

Date 7/16/10

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Station

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Top of Rock Elev. 297.60 ft
Begin Core Elev. 297.60 ft

BORING NO. B-18A
Station 1203+86.65
Offset 48.96ft LT
Ground Surface Elev. 392.6 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Light gray, Finely Crystalline, Massive bedded			6	97	84	4.7	
		-120					
LIMESTONE: Gray, Finely Crystalline, with seams, Thick bedded			7	99	99	4.1	
CORE Run 7 -- RMR Rating 80: II - Good Quality Rock Mass							846.0
	267.60	-125					
		-130					
		-135					

Color pictures of the cores Yes
Cores will be stored for examination until 2013
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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jmlgus

3/15/2011
5:08:11 PM

Kaskaskia Engineering Group, LLC

USER NAME = jmlgus	DESIGNED - BWC	REVISED -	
FILE NAME = 0600345-76A91-133-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. 133 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	512

CONTRACT NO. 76A91

ILLINOIS FED. AID PROJECT