Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Date 11/2/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY MDM
SECTION Bridge over Chain of Rocks Canal LOCATION , SEC.30, TWP. 4N, RNG. 9W, PM
COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0345
Station
BORING NO. B-12
Station 1192+06.25
Offset 23.53ft RT
Ground Surface Elev. 460.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 433.6 ft ▼
Upon Completion N/A ft
After Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine to Medium SAND, trace Silt *(continued)*		-125			
Gray Fine SAND	331.58	-130	10 10 19		
		-135			
Gray Fine SAND, trace Gravel	321.58	-140	9 22 27		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine SAND, trace Gravel *(continued)*		-145			
Gray Medium to Coarse SAND, with Gravel, trace Silt	311.58	-150	17 18 41		
		-155			
Borehole continued with rock coring	302.58	-160			

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

Date 11/2/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY MDM
SECTION Bridge over Chain of Rocks Canal LOCATION , SEC.30, TWP. 4N, RNG. 9W, PM
COUNTY Madison CORING METHOD Core Barrel

STRUCT. NO. 060-0345
Station
BORING NO. B-12
Station 1192+06.25
Offset 23.53ft RT
Ground Surface Elev. 460.1 ft

CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 1.9 in
Top of Rock Elev. 302.58 ft
Begin Core Elev. 301.58 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, Finely Crystalline, trace seams, Massive bedded	301.58	-160	1	100	85	6	
Core Run 2- RMR Rating 73 : II - Good Quality Rock Mass	296.58	-165	2	100	53	4	817.2
SHALE: Gray, soft, banded LIMESTONE: Gray, Finely Crystalline, trace seams, Massive bedded	292.58	-170	3	100	73	4	
	287.83	-175	4	100	60	3.5	
		-180	5	100	56	3.5	

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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ROCK CORE LOG

Date 11/2/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY MDM
SECTION Bridge over Chain of Rocks Canal LOCATION , SEC.30, TWP. 4N, RNG. 9W, PM
COUNTY Madison CORING METHOD Core Barrel

STRUCT. NO. 060-0345
Station
BORING NO. B-12
Station 1192+06.25
Offset 23.53ft RT
Ground Surface Elev. 460.1 ft

CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 1.9 in
Top of Rock Elev. 302.58 ft
Begin Core Elev. 301.58 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
		-180					
LIMESTONE: Gray, Finely Crystalline, trace seams, Massive bedded		-185	6	100	86	3.5	
Core Run 6- RMR Rating 82 : I - Very Good Quality Rock Mass	271.92	-190					1211.8
		-195					

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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jmigus
3/15/2011 5:07:19 PM

Kaskaskia Engineering Group, LLC	USER NAME = jmigus	DESIGNED - BWC	REVISED -
	FILE NAME = 0600345-76A91-127-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. 127 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	506

CONTRACT NO. 76A91
ILLINOIS FED. AID PROJECT