Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Date 11/14/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY IK
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-11
Station 1192+06.25
Offset 23.53ft LT
Ground Surface Elev. 448.4 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 432.4 ft ▼
Upon Completion N/A ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Fine to Medium SAND, trace rock fragments *(continued)*		-125			
Gray Fine to Medium SAND, trace Gravel	319.86	-130	21 23 23		
		-135			
		-140	24 24 18		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine to Medium SAND, trace Gravel *(continued)*		-145			
Borehole continued with rock coring	302.36				
		-150			
		-155			
		-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)

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ROCK CORE LOG

Date 11/14/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY IK
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-11
Station 1192+06.25
Offset 23.53ft LT
Ground Surface Elev. 448.4 ft

CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 1.9 in
Top of Rock Elev. 302.36 ft
Begin Core Elev. 302.36 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, Finely Crystalline, trace seams, Massive bedded	302.36		1	91	63	5	
Core Run 1- RMR Rating 73 : II - Good Quality Rock Mass							703.4
	299.36	-150	2	100	85	5	
LIMESTONE: Gray, Finely Crystalline, Trace seams, Massive bedded SHALE: Gray, soft, banded	293.11	-155					
Core Run 2- RMR Rating 77 : II - Good Quality Rock Mass							779.8
LIMESTONE: Gray, Finely Crystalline, Trace seams, Massive bedded	289.36	-160	3	90	74	4	
Core Run 3- RMR Rating 74 : II - Good Quality Rock Mass		-165					

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 11/14/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY IK
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-11
Station 1192+06.25
Offset 23.53ft LT
Ground Surface Elev. 448.4 ft

CORING BARREL TYPE & SIZE NX Wireline
Core Diameter 1.9 in
Top of Rock Elev. 302.36 ft
Begin Core Elev. 302.36 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, Finely Crystalline, Trace seams, Massive bedded *(continued)*							528.5
LIMESTONE: Gray, Finely Crystalline, Trace seams, Massive bedded	279.36	-170	4	100	96	6.5	
Core Run 4- RMR Rating 80 : II - Good Quality Rock Mass		-175					689.0
	271.36	-180					
		-185					

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 5:07:08 PM

Kaskaskia Engineering Group, LLC

USER NAME = jmigus	DESIGNED - BWC	REVISED -	
FILE NAME = 0600345-76A91-125-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. 125 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	504
		CONTRACT NO. 76A91		
		ILLINOIS FED. AID PROJECT		