Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

ROCK CORE LOG

Date 9/27/12

ROUTE FAP Route 42 (IL 127) **DESCRIPTION** IL 127 Over Kaskaskia River **LOGGED BY** SCI (HHF)

SECTION 1-1BR-2 **LOCATION** Carlyle, IL, **SEC.** 31, **TWP.** 2N, **RNG.** 2W,
Latitude , **Longitude**

COUNTY Clinton **CORING METHOD** Wireline

STRUCT. NO. 014-0014
Station 140+00

BORING NO. B-5x
Station 135+42
Offset 8.5 ft LT
Ground Surface Elev. 436.0 ft

CORING BARREL TYPE & SIZE NX
Core Diameter 2.3 in
Top of Rock Elev. 387.50 ft
Begin Core Elev. 387.50 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
GRAVEL: Brown and gray, fine to coarse grained	387.35	1	94	61	1	
SHALE: Greenish-gray, soft, highly weathered 2 inch SANDSTONE SEAM Becomes sandy, moderately soft, moderately weathered	-50 385.40					
SANDSTONE: Gray, fine grained, hard, swith thin shale seams	384.35					
SHALE: Gray, moderately soft, moderately to highly weathered, with thin sandstone layers	383.60	2	100	42	1	
SANDSTONE: Gray, fine grained, hard, few thin shale seams	382.10	3	100	65	1	
INTERBEDDED SANDSTONE and SHALE: Gray and dark gray	381.35					
SANDSTONE: Gray, fine grained, hard 2 inch SHALE SEAM 1/2 inch SHALE SEAM 2 inch SHALE SEAM	-55 378.70					112.9
INTERBEDDED SANDSTONE and SHALE: Gray and dark gray		4	100	75	1.4	
SANDSTONE: Gray, fine grained, hard 1 inch SHALE SEAM	376.10 -60 374.45					
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray	373.60					
SANDSTONE: Gray, fine grained, hard, few shale seams	372.10	5	100	70	1	
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray	371.30					
SANDSTONE: Gray, fine grained, hard, few thin shale seams, some banding	-65 370.65					39.3
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray	367.50					

Color pictures of the cores Yes
Cores will be stored for examination until
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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	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SANDSTONE: Dark gray, very fine grained, moderately hard, slightly weathered, few thin shale seams	-70	6	100	88	1.2	30.6
Becomes hard, no shale seams	362.50					65.2
Boring terminated at 73.5 ft.	-75 -80 -85					

Color pictures of the cores Yes
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BBS, form 138 (Rev. 8-99)

MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - JTH	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 2/1/2013	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROCK CORE LOG B-5X
STRUCTURE NO. 014-0033
SHEET NO. 57 OF 61 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	1-1BR-2	CLINTON	159	126
		CONTRACT NO. 76479		
	ILLINOIS	FED. AID PROJECT		