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

ROCK CORE LOG

Date 9/25/12

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-7x
Station 139+25
Offset 8.0 ft LT
Ground Surface Elev. 436.0 ft

CORING BARREL TYPE & SIZE NX
Core Diameter 2.3 in
Top of Rock Elev. 389.50 ft
Begin Core Elev. 389.50 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SHALE: Greenish-gray, soft, highly weathered, sandy	389.00	1	89	70	1.8	
SANDSTONE: Gray, fine grained, moderately soft, slighly weathered	387.40					
SHALE: Gray, soft to moderately soft, moderately to highly weathered, with siltstone stringers	386.25 -50	2	100	7	1.2	
SANDSTONE: Gray, fine grained, moderately soft, slighly weathered, some banding	385.70					85.9
SHALE: Gray, soft to moderately soft, moderately to highly weathered, with siltstone stringers						
1 inch SANDSTONE SEAM						
5 inch SANDSTONE SEAM						
3 inch SANDSTONE SEAM	381.50	3	100	70	1	
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray, soft to moderately soft	-55					
ARGILLACEOUS SANDSTONE: Dark gray, fine grained, moderately soft, slightly weathered	377.50	4	100	88	3.2	
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray, moderately soft	376.20 -60					
ARGILLACEOUS SANDSTONE: Dark gray, very fine grained, moderately soft, slightly weathered	374.60					
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray, moderately hard	371.85	5	100	67	4	
	-65	6	96	80	1.1	75.1
	369.50					

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: Gray, fine grained, moderately soft, slighly weathered, slight banding	368.60					
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray, moderately soft	367.00					
SANDSTONE: Dark gray, fine grained, hard	366.40	7	100	70	1	
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray	-70					146.5
SANDSTONE: Dark gray, fine grained, hard, slight banding	365.40					
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray	364.65					
SANDSTONE: Dark gray, very fine grained, hard	362.00	8	100	90	1.2	
	-75					123.7
INTERBEDDED SANDSTONE, SILTSTONE, and SHALE: Gray and dark gray	359.70 359.30					
SANDSTONE: Dark gray, fine grained, hard, slight banding						115.0
2 inch SHALE SEAM	358.10					
SILTSTONE: Dark gray, hard, slightly weathered, some banding						73.9
	356.25 -80	9	100	100	2.7	
Boring terminated at 79.8 ft.						
	-85					

Color pictures of the cores Yes
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