## GEOTECHNICAL UNIT FIELD SCOUR REPORT

PROJECT: 8.2511001 ID: B-3696 COUNTY: Rockingham			
DESCRIPTION(1): Bridge 84 over Jones Creek on SR 2579 (Brooks Road)			
INFORMATION ON EXISTING BRIDGES Information obtained from: X field inspection microfilm(Reel:Pos:) other			
COUNTY BRIDGE NO. 84 BRIDGE LENGTH 52 NO. BENTS IN: CHANNEL 2 FLOOD PLAIN 4			
FOUNDATION TYPE: Timber Piles			
EVIDENCE OF SCOUR(2):			
ABUTMENTS OR END BENT SLOPES: None observed			
INTERIOR BENTS: Minor local scour			
CHANNEL BED: Minor scour on west side of channel			
CHANNEL BANKS: Sloughing upstream and downstream of existing bridge			
EXISTING SCOUR PROTECTION:			
TYPE(3):Timber wingwalls at end bents, none at interior bents			
EXTENT(4): 8 feet outside of bridge			
EFFECTIVENESS(5): Good			
OBSTRUCTIONS(6) (DAMS,DEBRIS,ETC.): Log jam at upstream side of existing bridge & approx 100' downstream			
DESIGN INFORMATION			
CHANNEL BED MATERIAL(7) (SAMPLE RESULTS ATTACHED): Alluvial:V. Loose Brown Silty Cse to F			
SAND (A-1-b); Residual: V Dense Grey-White Mic. Silty Cse to F SAND (A-1-b); Weathered Rock			
CHANNEL BANK MATERIAL(8) (SAMPLE RESULTS ATTACHED): Alluvial:V. Loose Silty Cse to F SAND (A-2-4),			
Soft to Med Stiff Mic F Sdy SILT (A-4), Med Stiff F Sdy Silty CLAY (A-6); Residual: V Dense Cse to F SAND (A-1-b)			
CHANNEL BANK COVER(9): Grass & heavy underbrush			
FLOOD PLAIN WIDTH(10): ± 500 feet			
FLOOD PLAIN COVER(11):Trees & heavy underbrush			

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DES	SIGN INFORMATION CONT.	PAGE 2	
STR	REAM IS DEGRADINGX AGGRA	DING (12)	
	HER OBSERVATIONS AND COMMENTS:		
OII	HER OBSERVATIONS AND COMMENTS.		
СН	ANNEL MIGRATION TENDENCY (13): Slightly	northwest	
O1 17		Total Wood	
	REPORTED BY:  GEOSCIENCE GRO	DUP, INC. DATE: 9/2/03	
GE	OTECHNICALLY ADJUSTED SCOUR ELEVATION	I (14):	
The	Geotechnical Engineering Unit agrees with the compute	d scour listed in the Bridge Survey & Hydraulic	
Des	ign Report dated 7/2/03.		
	REPORTED BY:	DATÉ:	
	REPORTED BY: NCDOT GEOTECHNICAL E	NGINEERING UNIT	
(1)	GIVE THE DESCRIPTION OF THE SPECIFIC SITE GIVING ROUT		
(2)	,		
	SLOUGHING, SCOUR LOCATIONS, DEGRADATIONS, ETC.)		
(3)	3) NOTE ANY EXISTING SCOUR PROTECTION (RIP RAP, ETC.)		
(4)	4) DESCRIBE THE EXTENT OF ANY EXISTING SCOUR PROTECTION.		
(5)			
(6)			
(7)	DESCRIBE THE CHANNEL BED MATERIAL: A SAMPLE SHOULI ATTACH LAB RESULTS.	D BE TAKEN FOR GRAIN SIZE DISTRIBUTION,	
(8)	DESCRIBE THE CHANNEL BANK MATERIAL: A SAMPLE SHOU	D BE TAKEN FOR GRAIN SIZE	
	DISTRIBUTION, ATTACH LAB RESULTS.		
(9)	DESCRIBE THE BANK COVERING (GRASS, TREES, RIP RAP, N	DNE, ETC.	
(10)			
(11)	DESCRIBE THE FLOOD PLAIN COVERING (GRASS, TREES, CR		
(12)	THE REPORT OF THE PARTY OF THE		
(13)		RATE LATERALLY DURING THE LIFE OF THE	
/4 A\	BRIDGE (APPROXIMATELY 100 YEARS).  GIVE THE GEOTECHNICALLY ADJUSTED SCOUR ELEVATION	SYDECTED OVED THE LIFE OF THE BRIDGE	
(14)	(APPROXIMATELY 100 YEARS). THIS CAN BE GIVEN AS AN EL		
	A BENT BY BENT BASIS WHERE VARIATIONS EXIST. DISCUSS		
	THEORETICAL SCOUR AND THE GEOTECHNICALLY ADJUSTED		
	ADJUSTED SCOUR ELEVEVATION IS BASED ON THE ERODAB		
	FOR JOINTING, FOLIATION, BEDDING ORIENTATION AND FRE		
	PERCENTAGE RQD; DIFFERENTIAL WEATHERING, SHEAR ST		

STRUCTURES; OTHER TESTS DEEMED APPROPRIATE; AND OVERALL GEOLOGIC CONDITIONS AT THE SITE.