GEOTECHNICAL UNIT FIELD SCOUR REPORT

PROJECT: 33295.1.1 ID: B-3847 COUNTY: Guilford							
DESCRIPTION(1): Bridge No. 63 over Deep River on SR 1850 (Sandy Ridge Road)							
INFORMATION ON EXISTING BRIDGES Information obtained from: X field inspection microfilm(Reel: Pos:)							
other							
COUNTY BRIDGE NO. 63 BRIDGE LENGTH 79.9 NO. BENTS IN: CHANNEL 2 FLOOD PLAIN 4							
FOUNDATION TYPE: Piles and Pile Bents on Footings							
EVIDENCE OF SCOUR(2):							
ABUTMENTS OR END BENT SLOPES: None							
INTERIOR BENTS: Minimal, <2 ft. (Visual Estimate)							
CHANNEL BED: Minimal, <2 ft. (Visual Estimate)							
CHANNEL BANKS: Minor sloughing of east and west bank, 1 to 3 feet.							
EXISTING SCOUR PROTECTION:							
TYPE(3): None							
EXTENT(4): N/A							
EFFECTIVENESS(5): N/A							
OBSTRUCTIONS(6) (DAMS,DEBRIS,ETC.): Small beaver dam downstream of bridge.							
DESIGN INFORMATION							
CHANNEL BED MATERIAL(7) (SAMPLE RESULTS ATTACHED): Alluvial Tan-Brown-White Coarse to Fine							
SAND (A-1-b)							
CHANNEL BANK MATERIAL(8) (SAMPLE RESULTS ATTACHED): Alluvial Grey-Coarse to Fine Sandy Silty							
CLAY (A-6)							
CHANNEL BANK COVER(9): Underbrush, small trees							
FLOOD BLAIN WIDTH(10): 150+ feet							
FLOOD PLAIN COVER(11): Underbrush, small trees							

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DES	SIGN INFORMATION CO	NT.				PAGE 2	
STR	EAM ISDEGRA	ADING _	X	_AGGRADING (12)			
ОТН	HER OBSERVATIONS AN	1D COM	MENTS	:			
					-	·	
СН	ANNEL MIGRATION TEN	DENCY	(13):_				
_	REPORTED BY:	Jan (GEOSCI	ENCE GROUP, INC.	DATE:	7-15-05	
GE	OTECHNICALLY ADJUST	red sco	OUR EL	EVATION (14):			
	Boring		100 Yea	r			
	B1-A		791.11				
	B1-B		791.11				
	REPORTED BY:	١	ICDOT G	EÖTECHNICAL UNIT	DATE:	8/15/05	
(4)	ONE THE DESCRIPTION OF TH		INSTRUC		D BODY OF MATER CRO	SSED	
(1) (2)							
(-/	SLOUGHING, SCOUR LOCATIO				•		
(3)	NOTE ANY EXISTING SCOUR F	ROTECTIO	ON (RIP R	AP, ETC.)			
(4)	DESCRIBE THE EXTENT OF AN	1Y EXISTIN	IG SCOUF	PROTECTION.			
(5)	DESCRIBE WHETHER OR NOT THE SCOUR PROTECTION APPEARS TO BE WORKING.						
(6)	NOTE ANY DAMS, FALLEN TRE					T. 0.1	
(7)							
/ Q \	ATTACH LAB RESULTS. DESCRIBE THE CHANNEL BAI	UK MATERI	ΙΔΙ · Δ ςΔΙ	MPLE SHOULD BE TAKEN E	OR GRAIN SIZE		
(8)	DISTRIBUTION, ATTACH LAB F			W EE 01100ED DE 1711ETT	OT 010 111 O.L.		
(9)	DESCRIBE THE BANK COVERI		S, TREES,	RIP RAP, NONE, ETC.			
(10)	GIVE THE APPROXIMATE FLO						
(11)	THE STATE OF THE S						
(12)							
(13)	THE REPORT OF THE PARTY OF THE						
	BRIDGE (APPROXIMATELY 10	0 YEARS).					
(14)	GIVE THE GEOTECHNICALLY	ADJUSTED	SCOUR	ELEVATION EXPECTED OV	ER THE LIFE OF THE BRI	DGE	
	(APPROXIMATELY 100 YEARS). THIS CAN BE GIVEN AS AN ELEVATION RANGE ACROSS THE SITE, OR ON						
	A BENT BY BENT BASIS WHERE VARIATIONS EXIST. DISCUSS RELATIONSHIP BETWEEN THE HYDRAULICS						
	THEORETICAL SCOUR AND THE GEOTECHNICALLY ADJUSTED SCOUR ELEVATION. THE GEOTECHNICALLY						
	ADJUSTED SCOUR ELEVEVAT	TON IS BAS	SED ON T	HE ERODABILITY OF MATE	RIALS WITH CONSIDERA	TION	
	FOR JOINTING, FOLIATION, BE	EDDING OF	RIENTATIO	ON AND FREQUENCY; COR	E RECOVERY PERCENT	AGE;	
	PERCENTAGE RQD: DIFFERE	NTIAL WEA	THERING	. SHEAR STRENGTH; OBS	ERVATIONS AT EXISTING	3	

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