

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL UNIT BORING LOG**

PROJECT NO 8.2860401		ID B-2583		COUNTY MADISON		GEOLOGIST SHELTON, T.P.						
SITE DESCRIPTION BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER						GND WATER						
BORING NO B3-B		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 11+77.000		OFFSET 5.00m RT		24 HR N/A						
COLLAR ELEV 494.88m		TOTAL DEPTH 6.54m		START DATE 9/26/00		COMPLETION DATE 09/26/00						
DRILL MACHINE CME-550			DRILL METHOD CORE BORING/CORE			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH 0.87m			DEPTH TO ROCK 0.72m			Log B3-B, Page 1 of 1						
ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75			
495.75												Surface Water
495.00												Ground Surface
493.00										CORE 1	SAT	ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
491.00										CORE 2		FINE-COARSE GRAINED, HARD-VERY HARD, FRESH, MIGMATITIC BIOTITE-TO-GRANITIC GNEISS. REC: 94% RQD: 94%
489.00										CORE 3		BROWN & WHITE-LIGHT GREY, FRESH, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS. REC: 89% RQD: 78%
488.34										CORE 4 RS-7 RSS-9		SLI. GN, BRN & WH-LGT. GREY, FRESH, F.-CSE. GRAINED, MIGMATITIC BIOTITE GNEISS. REC: 99% RQD: 93%
												FRESH, F.-CSE. GRAINED, HARD-V. HARD, DOMINANTLY SOUND, MIGMATITIC BIOTITE GNEISS. REC: 95% RQD: 95%
												BORING TERMINATED IN ROCK (MIGMATITIC BIOTITE GNEISS) @ ELEV: 488.34 M.

CORE BORING REPORT								DATE
PROJECT: 8.2860401		I. D. NO: B-2583		BORING NO: B3-B		GEOLOGIST: TREADWAY, M.A.		10/31/00
DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER								
COUNTY: MADISON		COLLAR ELEVATION: 494.88 m		TOTAL DEPTH: 6.54 m				
ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS	
494.16	0.72		1.35	1.28	1.28		BRN & WH-LGT. GREY, F.-CSE. GRAINED, FRESH, PREDOMINANTLY SOUND-SLI. FRAC., HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS. TRACE PYRITE & PARTIALLY HEALED-HEALED FRACS. RUBBLE-TYPE FRAC. ZONE W/ INDISTINGUISHABLE JOINTS @ (2.07-2.30m).	
492.81	2.07			94	94		2 JNTS. @ 15-25° ADS: 55.7cm ADT: INDETERMINABLE	
492.81	2.07			1.32	1.16		3 JNTS. @ 25-35° ADS: 48.8cm(erratic spacing) ADT: < 2mm	
491.32	3.56		1.49	89	78		1 JNT. @ 40-45° ADT: 2mm 1 JNT. @ 50-55° ADT: 4mm 1 JNT. @ 70-90° ADT: INDETERMINABLE	
491.32	3.56						STRATA REC: 91% STRATA RQD: 86% [3.56m]	
489.83	5.05		1.49	1.47	1.38		SLI. GN, BRN & WHITE-LIGHT GREY, FINE TO COARSE-GRAINED, FRESH, DOMINANTLY SOUND, HARD TO VERY HARD, MIGMATITIC BIOTITE GNEISS WITH ACCESSORY HORNBLLENDE & EPIDOTE. SLI. CALCITE ALTERATION, TRACE OF PYRITE, SPORADIC PITS/VUGS & PARTIALLY HEALED-HEALED FRACTURES. WELL-DEFINED DISHARMONIC FOLIATION WITH SOME	
489.83	5.05			1.42	1.42	RS-7	CRENULATIONS, CHEVRON & ZIGZAG FOLDS. JOINTS EXIST ALONG FOLIATION.	
488.34	6.54			95	95	RSS-9	2 JNTS. @ 25-35° ADS: 27cm ADT: 2mm (OCCAS. V. SLI. FE STAINS) 2 JNTS. @ 46-60° ADS: 9cm ADT: < 2mm	
488.34	6.54						STRATA REC: 97% STRATA RQD: 94% [6.54m]	
CORING TERMINATED AT ELEVATION 488.34 m								
DRILLER: W.A. GOSNELL		CORE SIZE: NXWL		EQUIPMENT: CME-550				