

**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 B5-A		NORTHING 0.00		EASTING 0.00		0 HR N/A							
ALIGNMENT -L-		BORING LOCATION 12+13.000		OFFSET 5.00m LT		24 HR N/A							
COLLAR ELEV 495.47m		TOTAL DEPTH 8.64m		START DATE 8/31/00		COMPLETION DATE 08/31/00							
DRILL MACHINE CME-550			DRILL METHOD CORE BORING/CORE			HAMMER TYPE AUTOMATIC							
SURFACE WATER DEPTH 0.15m			DEPTH TO ROCK 1.76m			Log B5-A, 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				100
495.62													Surface Water Ground Surface
495.00													W-SAT ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
493.00													CORE 1 SWR/HWR: GREY, SL. SD.
491.00													CORE 2 MIGMATITIC BIO.-GRANITIC GNEISS. REC: 85% RQD: 73%
489.00													CORE 3 HARD-V.HARD, FRESH-SLI. WEATHERED, MIGMATITIC BIOTITE-TO-GRANITIC GNEISS. REC: 68% RQD: 30%
487.00													RSS-7 SLI. BRN-WH-GREY, F.-CSE. GRAINED, MIGMATITIC BIOTITE-TO-GRANITIC GNEISS. REC: 89% RQD: 66%
486.83													CORE 4 HARD-V. HARD, FRESH-SLI. WEATHERED, WELL-FOLIATED, MIGMATITIC BIO.-GRANITIC GNEISS. REC: 92% RQD: 62%
													CORE 5 SLI. BRN, WH-GN-GREY, F.-CSE. GRAINED, FRESH, HARD-V. HARD, MIGMATITIC BIO.-HORNBLLENDE GNEISS. REC: 98% RQD: 94%
													BORING TERMINATED IN ROCK (MIGMATITIC BIO.-HORNBLLENDE GNEISS) @ ELEV. 486.83 M.

CORE BORING REPORT							
PROJECT: 8.2860401		I. D. NO: B-2583		BORING NO: B5-A		GEOLOGIST: TREADWAY, M.A.	
DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER							
COUNTY: MADISON		COLLAR ELEVATION: 495.47 m		TOTAL DEPTH: 8.64 m		DATE 10/31/00	
ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
493.71	1.76		0.92	0.78	0.67		F.-CSE. GRAINED, FRESH-SLI. WEATHERED, EXTR. FRAC.-SOUND, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIO.-GRANITIC GNEISS W/ TRACE OF PYRITE. OCCAS. PARTIALLY HEALED-HEALED FRACS. HIGHLY FRACTURED ZONES WITH NOTABLE RUBBLE & MISSING MATERIAL @ (2.20-2.43m); (2.68-3.15m); (3.332-3.482m); (3.746-4.17m). OBSERVABLE JOINTS BELOW:
492.79	2.68			85	73		1 JNT. @ 0-10° ADT: INDETERMINABLE **{STRATA REC: 76%}
492.79	2.68			1.02	0.44		1 JNT. @ 10-20° ADT: INDISCERNIBLE **{STRATA RQD: 46%}
491.30	4.17		1.49	68	30		7 JNTS. @ 20-30° ADS: 29.5cm ADT: INDISCERNIBLE (OCCAS. FE STAINS)
491.30	4.17						13 JNTS. @ 35-50° ADS: 15.3cm ADT: INDETERMINABLE
489.81	5.66			1.33	0.98		1 JNT. @ 55-60° ADT: INDETERMINABLE [4.17m]
489.81	5.66		1.49	89	66	RSS-7	SLI. BRN-WH-GREY, FINE-CSE. GRAINED, FRESH-SLI. WEATHERED, EXTR. FRAC.-SOUND, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS WITH TRACE OF PYRITE & HORNBLLENDE. SPORADIC HEALED TO PARTIALLY HEALED FRACTURES.
488.82	7.15			1.38	0.92		1 JNT. @ 10-20° ADT: INDETERMINABLE
488.82	7.15			92	62		9 JNTS. @ 20-30° ADS: 24.1cm ADT: INDETERMINABLE
486.83	8.64			1.45	1.40		16 JNTS. @ 35-50° ADS: 17.7cm ADT: INDISCERNIBLE
486.83	8.64			98	94		4 JNTS. @ 55-65° ADS: 68.5cm ADT: INDETERMINABLE
							STRATA REC: 91% STRATA RQD: 64% [7.15m]
							SLI. BRN, WH-GN-GREY, F.-CSE. GRAINED, FRESH, MOSTLY SOUND, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-HORNBLLENDE GNEISS W/ TRACE OF PYRITE. 4 JNTS. @ 40-50° ADS: 46.1cm ADT: 2mm
							STRATA REC: 98% STRATA RQD: 94% [8.64m]
CORING TERMINATED AT ELEVATION 486.83 m							
DRILLER: W.A. GOSNELL		CORE SIZE: NXWL		EQUIPMENT: CME-550			

Updated 7/26/95