

**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 B9-A		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 12+85.000		OFFSET 5.00m LT		24 HR N/A						
COLLAR ELEV 495.32m		TOTAL DEPTH 7.00m		START DATE 9/19/00		COMPLETION DATE 09/19/00						
DRILL MACHINE CME-550			DRILL METHOD CORE BORING/CORE			HAMMER TYPE AUTOHAMMER						
SURFACE WATER DEPTH 0.34m			DEPTH TO ROCK 0.78m			Log B9-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			
495.66												Surface Water
												Ground Surface
495.00												ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
												F.-CSE. GRAINED, FRESH-SLI. WEATHERED, MIGMATITIC BIO.-GRANITIC/ MINOR BIO.-HORNBLLENDE GNEISS. REC: 93% RQD: 85%
493.00												HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIO.-GRANITIC GNEISS W/ MINOR BIO.-HB. GNEISS. REC: 96% RQD: 96%
491.00												GN-BRN & WH-GREY, FRESH, F.-CSE. GRAINED, MIGMATITIC BIO.-GRANITIC & BIO.-HB. GNEISS. REC: 99% RQD: 99%
489.00												HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIO.-GRANITIC & BIO.-HORNBLLENDE GNEISS. REC: 99% RQD: 90%
488.32												BORING TERMINATED IN ROCK (MIGMATITIC BIOTITE-GRANITIC & BIOTITE-HORNBLLENDE GNEISS) @ ELEV: 488.32 M.

CORE BORING REPORT

DATE 11/1/00

PROJECT: 8.2860401 I. D. NO: B-2583 BORING NO: B9-A GEOLOGIST: TREADWAY, M.A.

DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER

COUNTY: MADISON COLLAR ELEVATION: 495.32 m TOTAL DEPTH: 7.00 m

ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
494.54	0.78		1.75	1.63 93	1.49 85		SLI. PINK, GN-BRN & WH-GREY, F.-CSE. GRAINED, FRESH-SLI. WEATHERED, EXTREMELY FRAC.-MOSTLY SOUND, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIO.-GRANITIC GNEISS W/ MINOR BIO.-HORNBLLENDE GNEISS. TRACE PYRITE, SPORADIC PITS & PARTIALLY HEALED-HEALED FRACTURES
492.79	2.53						NOTABLE FRAC. ZONE W/ SOME MISSING MATERIAL @ (1.558-1.764m).
492.79	2.53		1.49	1.44 96	1.42 96	RS-13	2 JNTS. @ 0-15° ADS: 5.8cm ADT: INDISCERNIBLE (SLI. FE STAINS) 1 JNT. @ 15-20° ADT: INDETERMINABLE (SLI. FE STAINS) 2 JNTS. @ 25-35° ADS: 2.033m ADT: 5mm 3 JNTS. @ 45-55° ADS: 53.6cm ADT: INDISCERNIBLE (SLI. FE STAINS)
491.30	4.02						4 JNTS. (w/ 2 conjugate jnts.) @ 55-65° ADS: 35.4cm ADT: 2mm (MOD. FE)
491.30	4.02		1.49	1.48 99	1.48 99		STRATA REC: 95% STRATA RQD: 90% *END STRATA @ [4.02m]
489.81	5.51						GN-BRN & WH-GREY, F.-CSE. GRAINED, FRESH, EXTR. FRAC.-DOMINANTLY SOUND, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIO.-GRANITIC & BIO.-HORNBLLENDE GNEISS. TRACE OF PYRITE, CHALCOPYRITE & EPIDOTE.
489.81	5.51		1.49	1.48 99	1.34 90		OCCASIONAL HEALED FRACTURES. 1 JNT. @ 0-15° ADT: 2mm 2 JNTS. @ 25-30° ADS: 1cm ADT: INDETERMINABLE 2 JNTS. @ 35-45° ADS: 14.9cm ADT: 2mm
488.32	7.00						1 JNT. @ 45-55° ADT: INDETERMINABLE
488.32	7.00						STRATA REC: 99% STRATA RQD: 94% *END STRATA @ [7.00m]

CORING TERMINATED AT
ELEVATION 488.32 m

DRILLER: E.R. BAILEY CORE SIZE: NXWL EQUIPMENT: CME-550