

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 B1-A		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 11+41.000		OFFSET 5.00m LT		24 HR N/A						
COLLAR ELEV 494.44m		TOTAL DEPTH 8.23m		START DATE 9/13/00		COMPLETION DATE 09/13/00						
DRILL MACHINE CME-550			DRILL METHOD CORE BORING/CORE			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH 0.61m			DEPTH TO ROCK 1.03m			Log B1-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			
495.05												Surface Water
												Ground Surface
494.00											SAT	ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
												MIGMATITIC BIO.-HORNBLLENDE GNEISS W/ MINOR AMPHIBOLITE. REC: 99% RQD: 80%
492.00												FRESH-V. SLI. WEATHERED, MIGMATITIC BIO.-HORNBLLENDE GNEISS W/ MINOR AMPHIBOLITE. REC: 92% RQD: 79%
												HARD-V. HARD, MIGMATITIC BIO.-HB. GNEISS W/ MINOR AMPHIBOLITE & BIO.-GRANITIC GNEISS. REC: 95% RQD: 82%
490.00												MAINLY F.-MED. GRAINED, FRESH-SLI. WEATHERED, MIGMATITIC BIO.-GRANITIC GNEISS. REC: 97% RQD: 37%
												GENERALLY; WELL-FOLIATED, F.-MED. GRAINED, HARD-V. HARD, MIGMATITIC BIOTITE-TO-GRANITIC GNEISS. REC: 96% RQD: 56%
488.00												
486.21												BORING TERMINATED IN ROCK (MIGMATITIC BIOTITE-GRANITIC GNEISS) @ ELEV. 486.21 M.

CORE BORING REPORT							DATE 10/30/00	
PROJECT: 8.2860401		I. D. NO: B-2583		BORING NO: B1-A		GEOLOGIST: TREADWAY, M.A.		
DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER								
COUNTY: MADISON			COLLAR ELEVATION: 494.44 m			TOTAL DEPTH: 8.23 m		
ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS	
493.41	1.03		1.24	1.23	0.99		DK BRN-GREEN & WHITE-LGT. GREY, PREDOMINANTLY FINE TO MEDIUM-GRAINED, FRESH TO VERY SLIGHTLY WEATHERED, HARD TO VERY HARD, EXTREMELY FRAC. TO OFTEN SOUND, MIGMATITIC BIOTITE-HORNBLLENDE GNEISS WITH SPORADIC, MINOR INTERLAYERED AMPHIBOLITE. JOINTS OCCUR MAINLY ALONG WELL-DEVELOPED FOLIATION.	
492.17	2.27						1 JOINT @ 0-10° ADT: 3mm	
492.17	2.27		1.49	1.37	1.17	RS-1	9 JOINTS @ 10-20° ADS: 27.5cm ADT: 4mm	
490.68	3.76			92	79		10 JOINTS @ 25-35° ADS: 25.7 cm ADT: 4mm	
490.68	3.76						1 JOINT @ 50-55° ADT: 3mm	
							STRATA REC: 95% STRATA RQD: 82%	
489.19	5.25						[5.04m]	
489.19	5.25			1.44	0.55		SLI. GN, DK BRN & WH-LGT. GREY, MOSTLY F.-MED. GRAINED, FRESH-SLI. WEATHERED, EXTR. FRAC.-SOUND, HARD-V. HARD, MIGMATITIC BIOTITE-GRANITIC GNEISS W/ACCESSORY HORNBLLENDE. GENERALLY WELL-FOLIATED DISHARMONICLY. OCCAS. PITS & PARTIALLY HEALED-HEALED FRACS. W/SOME MINOR CALCITE ALTERATION/INFILLING. FRAC./FAULT/	
487.70	6.74			97	37		SHEAR ZONES @ (5.685-5.865m); (6.15-6.50m: CHEMICAL ALTERATION); (7.07-7.445m). DISCERNIBLE JOINTS:	
487.70	6.74						8 JNTS. @ 0-10° ADS: 10.9cm ADT: INDISCERNIBLE	
				1.43	0.84		8 JNTS. @ 10-20° ADS: 35.5cm ADT: 6mm	
				96	56		9 JNTS. @ 25-35° ADS: 29.5cm ADT: 4mm	
486.21	8.23						4 JNTS. @ 35-45° ADS: 82.5cm ADT: NOT ASCERTAINABLE	
486.21	8.23						6 JNTS.(3 being conjugate) @ 47-60° ADS:13.8cm(erratic spacing) ADT: 5mm	
							4 JNTS. @ 60-80° ADS: 46.3cm ADT: INDISTINGUISHABLE	
							STRATA REC: 96% STRATA RQD: 44% *END STRATA @ [8.23m]*	
CORING TERMINATED AT ELEVATION 486.21 m								
DRILLER: W.A. GOSNELL			CORE SIZE: NXWL			EQUIPMENT: CME-550		