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 B6-A	**NORTHING** 0.00	**EASTING** 0.00		**0 HR** N/A
ALIGNMENT -L-	**BORING LOCATION** 12+31.000	**OFFSET** 5.00m LT		**24 HR** N/A
COLLAR ELEV 495.21m	**TOTAL DEPTH** 7.79m	**START DATE** 9/14/00	**COMPLETION DATE** 09/14/00	
DRILL MACHINE CME-550	**DRILL METHOD** CORE BORING/CORE		**HAMMER TYPE** AUTOMATIC	
SURFACE WATER DEPTH 0.45m	**DEPTH TO ROCK** 1.14m		**Log B6-A, Page 1 of 1**	

ELEV	DEPTH	BLOW CT 15cm	15cm	15cm	PEN (m)	BLOWS PER 30cm 0 25 50 75 100	SAMPLE NO	MOI	LOG	SOIL AND ROCK DESCRIPTION
495.66						Surface Water				
495.00						Ground Surface		W-SAT		ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
							CORE 1			MIGMATITE (GRANITE, PELITIC HORNFELS, BIO.-GRANITIC GNEISS). REC: 75% RQD: 19%
493.00							CORE 2			MIGMATITE (GRANITE, PELITIC HORNFELS, BIO.-GRANITIC GNEISS). REC: 83% RQD: 40%
							RS-10			FRESH-SLI. WEATHERED, MIGMATITE (GRANITE, PELITIC HORNFELS, BIO.-GRANITIC & BIO.-HORNBLENDE GNEISS). REC: 83% RQD: 52%
491.00							CORE 3			
							CORE 4			FRESH, MIGMATITIC BIO.-GRANITIC & BIO.-HB. GNEISS. REC: 98% RQD: 93%
489.00							CORE 5			F.-CSE. GRAINED, HARD-V. HARD, MIGMATITIC BIO.-GRANITIC & BIO.-HORNBLENDE GNEISS. REC: 97% RQD: 95%
487.42						BORING TERMINATED IN ROCK (MIGMATITIC BIO.-GRANITIC & BIO.-HORNBLENDE GNEISS) @ ELEV. 487.42 M.				

DATE 10/31/00

CORE BORING REPORT

PROJECT: 8.2860401 I. D. NO: B-2583 BORING NO: B6-A GEOLOGIST: TREADWAY, M.A.

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

COUNTY: MADISON COLLAR ELEVATION: 495.21 m TOTAL DEPTH: 7.79 m

ELEV. (m)	DEPTH (m)	DRILL RATE MIN./.3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
494.07	1.14		0.69	0.52 / 75	0.13 / 19		PINK-WHITE & BLK-GREY, APHANITIC TO COARSE-GRAINED W/ OCCASIONAL PORPHYROBLASTS, SLI.-MOD. WEATHERED, EXTR. FRAC.-SOUND, HARD TO MOD. HARD, V. POORLY-WELL FOLIATED, MIGMATITE (GRANITE, PELITIC HORNFELS, BIOTITE-GRANITIC GNEISS). TRACE OF PYRITE, HORNBLENDE & SPORADIC PARTIALLY HEALED TO HEALED FRACTURES W/ SOME CALCITE INFILLING. SEVERAL HIGHLY FRACTURED & RUBBLE AREAS W/ SIGNIFICANT UNRECOVERED MATERIAL. ESTIMATED DATA BASED ON RECOVERED MATERIAL. FRAGS. & RUBBLE @ (1.14-1.51m); (1.83-2.345m); (3.37-3.52m); (3.72-3.75m). DISTINGUISHABLE JOINTS AS BELOW:
493.38	1.83						
493.38	1.83		1.49	1.24 / 83	0.60 / 40	RS-10	4 JNTS. @ 0-15° ADS: 60.7cm ADT: INDETERMINABLE
491.89	3.32						5 JNTS. @ 15-25° ADS: 30.8cm ADT:INDETERMINABLE
491.89	3.32		1.49	1.23 / 83	0.78 / 52		2 JNTS. @ 25-35° ADS: 9.7cm ADT: 3mm **{STRATA REC: 76%}
490.40	4.81						8 JNTS. @ 35-50° ADS: 29.1cm ADT: INDISCERNIBLE **{STRATA RQD: 27%}
490.40	4.81		1.49	1.46 / 98	1.39 / 93		5 JNTS. @ 55-70° ADS: 32.1cm ADT: INDISCERNIBLE
488.91	6.30						1 JNT. @ 75-90° ADT: INDETERMINABLE *END STRATA @ [4.01m]
488.91	6.30		1.49	1.45 / 97	1.42 / 95		PNK-WH-BRN-GN-GREY, F.-CSE. GRAINED, FRESH, DOMINANTLY SLI. FRAC.-SOUND, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC & BIOTITE-HORNBLENDE GNEISS. TRACE OF PYRITE & SOME HEALED FRACS. WITH MINOR CALCITE INFILLING.
487.42	7.79						1 JNT. @ 10-20° ADT: 3mm
487.42	7.79						4 JNTS. @ 20-30° ADS: 49.8cm ADT: 6mm
							1 JNT. @ 30-40° ADT: INDISCERNIBLE
							3 JNTS. @ 40-50° ADS: 1.664m ADT: 2mm
							2 JNTS. @ 50-60° ADS: 92cm ADT: 1mm
							STRATA REC: 98% STRATA RQD: 95% *END STRATA @ [7.79m]

CORING TERMINATED AT ELEVATION 487.42 m

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

Updated 7/26/95