

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 B2-A | | NORTHING 0.00 | | EASTING 0.00 | | 0 HR N/A | | | | | | | | |
| ALIGNMENT -L- | | BORING LOCATION 11+59.000 | | OFFSET 5.00m LT | | 24 HR N/A | | | | | | | | |
| COLLAR ELEV 494.78m | | TOTAL DEPTH 7.86m | | 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 0.46m | | | DEPTH TO ROCK 0.69m | | | Log B2-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 | | | | |
| 495.24 | | | | | | | | | | | | | | Surface Water |
| | | | | | | | | | | | | | | Ground Surface |
| 494.00 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 492.00 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 490.00 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 488.00 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 486.92 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

CORE BORING REPORT

DATE 10/30/00

PROJECT: 8.2860401 I. D. NO: B-2583 BORING NO: B2-A GEOLOGIST: TREADWAY, M.A.

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

COUNTY: MADISON COLLAR ELEVATION: 494.78 m TOTAL DEPTH: 7.86 m

| ELEV. (m) | DEPTH (m) | DRILL RATE MIN./3 m | RUN (m) | REC. METERS % | RQD. METERS % | SAMP. # | FIELD CLASSIFICATION AND REMARKS |
|-----------|-----------|---------------------|---------|---------------|---------------|---------|---|
| 494.09 | 0.69 | | 1.21 | 1.15 | 0.99 | RS-3 | BROWN & WHITE-LIGHT GREY, FINE TO COARSE-GRAINED, FRESH-SLI. WEATHERED, PREDOMINANTLY SLI. FRAC.-SOUND, HARD-VERY HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS WITH MINOR HORNBLLENDE, TRACE OF PYRITE & PITS, & AN OCCAS. PARTIALLY HEALED TO HEALED FRAC. JOINTS FOUND MAINLY ALONG FOLIATION. |
| 492.88 | 1.90 | | | 95 | 82 | | |
| 492.88 | 1.90 | | | 1.43 | 1.33 | | 9 JNTS. @ 0-15° ADS: 2.6cm ADT: INDISCERNIBLE (SLI.-MOD. FE STAINS) |
| | | | | 96 | 89 | | 2 JNTS. @ 15-25° ADS: 1.475m ADT: 2mm |
| 491.39 | 3.39 | | | | | | 4 JNTS. @ 25-35° ADS: 67.3cm ADT: 3mm |
| 491.39 | 3.39 | | | | | | 5 JNTS. @ 35-45° ADS: 54.5cm ADT: INDETERMINABLE |
| | | | | 1.42 | 0.74 | | 4 JNTS. @ 60-75° ADS: 22.6cm ADT: 5mm |
| | | | | | | | STRATA REC: 95% STRATA RQD: 78% [4.15m] |
| 489.90 | 4.88 | | | 95 | 50 | | SLI. BROWN, WHITE-LIGHT GREY & GREEN, FINE TO COARSE-GRAINED, FRESH-SLI. WEATHERED, EXTREMELY FRACTURED TO SOUND, HARD TO VERY HARD, MIGMATITIC BIOTITE-HORNBLLENDE GNEISS WITH SOME INTERLAYERED AMPHIBOLITE & MINOR HORNFELS. JOINTS ARE BASICALLY ALONG WELL DEFINED FOLIATION & AT TIMES SHOW MINOR CALCITE ALTERATION. |
| 489.90 | 4.88 | | | 1.44 | 1.38 | | |
| | | | | 96 | 93 | | |
| 488.41 | 6.37 | | | | | | 3 JNTS. @ 0-15° ADS: 1.549m(erratically spaced) ADT: 2mm |
| 488.41 | 6.37 | | | 1.41 | 0.95 | RS-4 | 14 JNTS. @ 15-25° ADS: 15.4cm(erratic spacing) ADT: INDISTINGUISHABLE |
| | | | | | | | 6 JNTS. @ 25-35° ADS: 63.6cm ADT: 3mm |
| | | | | 94 | 64 | | 4 JNTS. @ 35-45° ADS: 54.5cm ADT: 1mm |
| | | | | | | | 4 JNTS. @ 45-55° ADS: 59.0cm ADT: INDETERMINABLE |
| 486.92 | 7.86 | | | | | | STRATA REC: 95% STRATA RQD: 73% [7.86m] |
| 486.92 | 7.86 | | | | | | |

CORING TERMINATED AT
 ELEVATION 486.92 m

DRILLER: W.A. GOSNELL CORE SIZE: NXWL EQUIPMENT: CME-550