



2736 ROWLAND ROAD
 RALEIGH, NORTH CAROLINA 27615
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N.C.D.O.T. GEOTECHNICAL UNIT
 BORING LOG

SHEET 1 OF 1

| PROJECT NO. 33335.1.1 | | ID. B-3899 | | COUNTY ROCKINGHAM | | GEOLOGIST C. BRUINSMA | | | | | | |
|--|------------|-----------------------|-------|-------------------------|-----------------|-------------------------|----|----|----|-----------|------|--|
| SITE DESCRIPTION BRIDGE #21 ON SR 1001 (WOOLEN STORE RD.) OVER TROUBLESOME CREEK | | | | | | GROUND WATER (ft) | | | | | | |
| BORING NO. B1B | | BORING LOCATION 23+73 | | OFFSET 10' RT. | | ALIGNMENT -L- | | | | | | |
| COLLAR ELEV. 720.7 ft | | NORTHING 929,147.5 | | EASTING 1,770,745.9 | | 0 HR. 0.0 24 HR. 1.3 | | | | | | |
| TOTAL DEPTH 55.6 ft | | DRILL MACHINE D-50 | | DRILL METHOD MUD ROTARY | | HAMMER TYPE AUTO | | | | | | |
| DATE STARTED 12-29-04 | | COMPLETED 12-30-04 | | SURFACE WATER DEPTH N/A | | | | | | | | |
| ELEV. (ft) | DEPTH (ft) | BLOW COUNT | | | BLOWS PER FOOT | | | | | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION |
| | | 0.5ft | 0.5ft | 0.5ft | 0 | 20 | 40 | 60 | 80 | | | |
| 720.7 | 0.0 | 1 | 2 | 1 | EXISTING GROUND | | | | | | | |
| 720 | 3.2 | 1 | WOH | 2 | | | | | | SS-8 | W | 720.4 ROOTMAT ALLUV: BROWN, SOFT, SILTY CLAY (A-7-5) |
| 715 | 8.2 | 2 | 2 | 2 | | | | | | | W | 717.0 ALLUV: GRAY, V. LOOSE, SILTY SAND (A-2-4) 714.2 ALLUV: GRAY, LOOSE, SAND (A-1-b) |
| 710 | 13.2 | 2 | 1 | 1 | | | | | | | M | 707.7 RES: BROWN AND TAN, V. LOOSE TO LOOSE, SILTY SAND (A-2-5) MICACEOUS, SAPROLITIC |
| 705 | 18.2 | 3 | 1 | 3 | | | | | | SS-9 | W | |
| 700 | 23.2 | 8 | 40 | 60/4 | | | | | | | | 697.0 WR: BROWN, GRAY AND WHITE, SCHIST |
| 695 | 28.2 | 45 | 55/3 | | | | | | | | | 693.7 WR: GRAY AND WHITE, GNEISS |
| 690 | 30.8 | 60/1 | | | | | | | | | | 689.9 CR: GRAY, WHITE AND BLACK, MOD. TO MOD. SEV. WEATHERED, MED. HARD TO SOFT, V. CLOSE TO CLOSELY FRACTURED, GARNET-MICA GNEISS |
| 685 | | | | | | | | | | | | |
| 680 | | | | | | | | | | | RS-1 | |
| 675 | | | | | | | | | | | | 679.8 CR: GRAY, WHITE AND BLACK, V. SLI. TO SLI. WEATHERED, MOD. HARD TO HARD, V. CLOSE TO MOD. CLOSELY FRACTURED, GRANET-BIOTITE AUGEN GNEISS |
| 670 | | | | | | | | | | | | |
| | | | | | | | | | | | | 665.1 CORING TERMINATED AT ELEV. 665.1' IN CR: GRAY, WHITE AND BLACK, GNEISS |
| DRILLING FLUID PROPERTIES: 63.68 PCF | | | | | | | | | | | | |

NCDOT_BORE_VARIABLE_DEPTH_04-070_BRIDGE_21_ROCKINGHAM.GPJ NCDOT.GDT 2/14/05

CORE BORING REPORT

DATE: 12/30/04

PROJECT: 33335.1.1 I.D. NO.: B-3899 BORING NO: B1B GEOLOGIST: C. BRUINSMA

DESCRIPTION: BRIDGE #21 ON SR 1001 (WOOLEN STORE RD.) OVER TROUBLESOME CREEK

COUNTY: ROCKINGHAM COLLAR ELEV.: 720.7 FT TOTAL DEPTH: 55.6 FT

| ELEV. (FT) | DEPTH (FT) | DRILL RATE MIN/FT | RUN (FT) | REC FT % | RQD FT % | SAMP # | FIELD CLASSIFICATION AND REMARKS |
|------------|------------|-------------------|----------|----------|----------|--------|--|
| 689.9 | 30.8 | 3:20 | 4.8 | 4.8/4.8 | 0.5/4.8 | | 30.8-40.9 CR: GRAY, WHITE AND BLACK, MOD. TO MOD. SEV. WEATHERED, MED. HARD TO SOFT, V. CLOSE TO CLOSELY FRACTURED, GARNET-MICA GNEISS |
| | | 2:50 | | | | | |
| | | 2:10 | | | | | |
| | | 2:00 | | | | | |
| 685.1 | 35.6 | 2:35/8 | 5.0 | 4.6/5.0 | 1.85/5.0 | RS-1 | 40.9-55.6 CR: GRAY, WHITE AND BLACK, V. SLI. TO SLI. WEATHERED, MOD. HARD TO HARD, V. CLOSE TO MOD. CLOSELY FRACTURED, GRANET-BIOTITE AUGEN GNEISS |
| 685.1 | 35.6 | 3:07 | | | | | |
| | | 2:00 | | | | | |
| | | 2:00 | | 92% | 37.0% | | STRATA REC = 95% STRATA RQD = 28% |
| 680.1 | 40.6 | 2:10 | 5.0 | 4.9/5.0 | 2.45/5.0 | | 40.9-55.6 CR: GRAY, WHITE AND BLACK, V. SLI. TO SLI. WEATHERED, MOD. HARD TO HARD, V. CLOSE TO MOD. CLOSELY FRACTURED, GRANET-BIOTITE AUGEN GNEISS |
| 680.1 | 40.6 | 3:00 | | | | | |
| | | 4:30 | | | | | |
| | | 3:45 | | | | | |
| | | 2:45 | | 98% | 49% | | |
| 675.1 | 45.6 | 4:15 | 5.0 | 5.0/5.0 | 3.46/5.0 | | 40.9-55.6 CR: GRAY, WHITE AND BLACK, V. SLI. TO SLI. WEATHERED, MOD. HARD TO HARD, V. CLOSE TO MOD. CLOSELY FRACTURED, GRANET-BIOTITE AUGEN GNEISS |
| 675.1 | 45.6 | 3:56 | | | | | |
| | | 2:40 | | | | | |
| | | 2:30 | | | | | |
| | | 3:30 | | 100% | 69.2% | | |
| 670.1 | 50.6 | 2:15 | 5.0 | 5.0/5.0 | 3.7/5.0 | | 40.9-55.6 CR: GRAY, WHITE AND BLACK, V. SLI. TO SLI. WEATHERED, MOD. HARD TO HARD, V. CLOSE TO MOD. CLOSELY FRACTURED, GRANET-BIOTITE AUGEN GNEISS |
| 670.1 | 50.6 | 3:45 | | | | | |
| | | 2:45 | | | | | |
| | | 2:05 | | | | | |
| | | 3:15 | | 100% | 74.0% | | |
| 665.1 | 55.6 | 3:00 | | | | | STRATA REC = 100% STRATA RQD = 65% |

CORING TERMINATED AT 55.6 FT
 ELEVATION: 665.1 FT

DRILLER: I.CRUZ CORE SIZE: HQ EQUIPMENT: D-50 TRACK