# NCDOT GEOTECHNICAL ENGINEERING UNIT
## BORELOG REPORT

| | | | |
|---|---|---|---|
| **WBS** 38688.1.3 | **TIP** I-0914BB | **COUNTY** WARREN | **GEOLOGIST** Contract Geologist |
| **SITE DESCRIPTION** SITE 1: DUAL BRIDGES ON -L- (I-85) OVER -Y2- (POPLAR MOUNT RD.) | | | **GROUND WTR (ft)** |
| **BORING NO.** B1-C | **STATION** 197+30 | **OFFSET** 9 ft LT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 338.3 ft | **TOTAL DEPTH** 20.8 ft | **NORTHING** 990,347 | **EASTING** 2,220,478 / **24 HR.** 1.0 |
| **DRILL RIG/HAMMER EFF./DATE** SME3193 CME-550X 80% 06/07/2011 | | **DRILL METHOD** NW Casing W/SPT & Core | **HAMMER TYPE** Automatic |
| **DRILLER** Contract Driller | **START DATE** 12/16/13 | **COMP. DATE** 12/16/13 | **SURFACE WATER DEPTH** N/A |

| ELEV (ft) | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT 0.5ft | 0.5ft | 0.5ft | BLOWS PER FOOT 0 25 50 75 100 | SAMP. NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION ELEV. (ft) | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 340 | | | | | | | | | | | |
| | | | | | | | | | | 338.3 GROUND SURFACE | 0.0 |
| | 337.3 | 1.0 | | | | | | | | **RESIDUAL** BROWN, WHITE, AND GRAY, SANDY CLAY | |
| 335 | 334.8 | 3.5 | 4 | 2 | 3 | 5 | | M | | 335.3 | 3.0 |
| | | | 8 | 9 | 10 | 19 | | M | | BROWN AND ORANGE, SILTY SAND | |
| | 332.3 | 6.0 | | | | | | | | | |
| | | | 19 | 46 | 36 | 82 | | M | | | |
| 330 | 329.8 | 8.5 | | | | | | | | 330.3 | 8.0 |
| | 329.3 | 9.0 | 100/0.4 | | | 100/0.4 | | | | 329.3 **WEATHERED ROCK** (GNEISS) | 9.0 |
| | | | 60/0.0 | | | 60/0.0 | RS-1 | | | **CRYSTALLINE ROCK** WHITE, BLACK, AND GRAY, HARD TO VERY HARD, FRESH, WIDE FRACTURE SPACING, GNEISS REC=94% RQD=94% RMR=87 | |
| 325 | | | | | | | | | | | |
| | | | | | | | RS-2 | | | | |
| 320 | | | | | | | | | | | |
| | | | | | | | RS-3 | | | 317.5 | 20.8 |
| | | | | | | | | | | Boring Terminated at Elevation 317.5 ft IN CRYSTALLINE ROCK (GNEISS) | |



# NCDOT GEOTECHNICAL ENGINEERING UNIT
## CORE BORING REPORT

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|---|---|---|---|
| **WBS** 38688.1.3 | **TIP** I-0914BB | **COUNTY** WARREN | **GEOLOGIST** Contract Geologist |
| **SITE DESCRIPTION** SITE 1: DUAL BRIDGES ON -L- (I-85) OVER -Y2- (POPLAR MOUNT RD.) | | | **GROUND WTR (ft)** |
| **BORING NO.** B1-C | **STATION** 197+30 | **OFFSET** 9 ft LT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 338.3 ft | **TOTAL DEPTH** 20.8 ft | **NORTHING** 990,347 | **EASTING** 2,220,478 / **24 HR.** 1.0 |
| **DRILL RIG/HAMMER EFF./DATE** SME3193 CME-550X 80% 06/07/2011 | | **DRILL METHOD** NW Casing W/SPT & Core | **HAMMER TYPE** Automatic |
| **DRILLER** Contract Driller | **START DATE** 12/16/13 | **COMP. DATE** 12/16/13 | **SURFACE WATER DEPTH** N/A |
| **CORE SIZE** NWD4 | **TOTAL RUN** 11.8 ft | | |

| ELEV (ft) | RUN ELEV (ft) | DEPTH (ft) | RUN (ft) | DRILL RATE (Min/ft) | RUN REC. (ft) % | RUN RQD (ft) % | SAMP. NO. | STRATA REC. (ft) % | STRATA RQD (ft) % | LOG | DESCRIPTION AND REMARKS ELEV. (ft) | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 329.3 | | | | | | | | | | | Begin Coring @ 9.0 ft | |
| | 329.3 | 9.0 | 1.8 | *N=60/0.0* | (1.8) | (1.8) | | (11.1) | (11.1) | | 329.3 **CRYSTALLINE ROCK** WHITE, BLACK, AND GRAY, HARD TO VERY HARD, FRESH, WIDE FRACTURE SPACING, GNEISS RMR=87 | 9.0 |
| | 327.5 | 10.8 | | 3:00/0.8 | 100% | 100% | RS-1 | 94% | 94% | | | |
| | | | 5.0 | 3:15/1.0 | (5.0) | (5.0) | | | | | | |
| 325 | | | | 4:00/1.0 | 100% | 100% | | | | | | |
| | | | | 4:30/1.0 | | | | | | | | |
| | | | | 5:00/1.0 | | | RS-2 | | | | | |
| | | | | 6:45/1.0 | | | | | | | | |
| | 322.5 | 15.8 | | 6:30/1.0 | | | | | | | | |
| | | | 5.0 | 4:00/1.0 | (4.3) | (4.3) | | | | | | |
| 320 | | | | 6:45/1.0 | 86% | 86% | | | | | | |
| | | | | 7:00/1.0 | | | | | | | | |
| | | | | 9:45/1.0 | | | RS-3 | | | | | |
| | 317.5 | 20.8 | | 15:00/1.0 | | | | | | | 317.5 | 20.8 |
| | | | | | | | | | | | Boring Terminated at Elevation 317.5 ft IN CRYSTALLINE ROCK (GNEISS) | |