# 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-B | **STATION** 196+74 | **OFFSET** 52 ft RT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 341.2 ft | **TOTAL DEPTH** 21.0 ft | **NORTHING** 990,265 | **EASTING** 2,220,478 / **24 HR.** 2.5 |
| **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)) |
|---|---|---|---|---|---|---|---|---|---|---|
| 345 | | | | | | | | | | |
| | | | | | | | | | | 341.2 GROUND SURFACE 0.0 |
| 340 | 340.2 | 1.0 | | | | | | | | |
| | | | 3 | 4 | 7 | 11 | | M | | **ROADWAY EMBANKMENT** RED-BROWN, SANDY CLAY 338.2 / 3.0 |
| | 337.7 | 3.5 | | | | | | | | 337.2 / 4.0 |
| | | | 10 | 60/0.0 | | 60/0.0 | | | | **RESIDUAL** ORANGE, SILTY SAND |
| 335 | | | | | | | | | | **CRYSTALLINE ROCK** WHITE, BLACK, AND BROWN, MODERATELY HARD TO HARD, SLIGHTLY TO MODERATELY SEVERELY WEATHERED, VERY CLOSE TO CLOSE FRACTURE SPACING, GNEISS REC=83% RQD=56% RMR=60 |
| | | | | | | | RS-4 | | | |
| 330 | | | | | | | | | | |
| 325 | | | | | | | RS-5 | | | |
| | | | | | | | RS-6 / RS-7 | | | |
| | | | | | | | | | | 320.2 / 21.0 |
| | | | | | | | | | | Boring Terminated at Elevation 320.2 ft IN CRYSTALLINE ROCK (GNEISS) |



# NCDOT GEOTECHNICAL ENGINEERING UNIT
## CORE BORING 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-B | **STATION** 196+74 | **OFFSET** 52 ft RT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 341.2 ft | **TOTAL DEPTH** 21.0 ft | **NORTHING** 990,265 | **EASTING** 2,220,478 / **24 HR.** 2.5 |
| **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** 17.0 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)) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 337.2 | | | | | | | | | | | Begin Coring @ 4.0 ft |
| | 337.2 | 4.0 | 2.0 | 2:00/1.0 | (1.9) | (1.2) | | (14.1) | (9.5) | | 337.2 / 4.0 **CRYSTALLINE ROCK** WHITE, BLACK, AND BROWN, MODERATELY HARD TO HARD, SLIGHTLY TO MODERATELY SEVERELY WEATHERED, VERY CLOSE TO CLOSE FRACTURE SPACING, GNEISS RMR=60 |
| 335 | 335.2 | 6.0 | | 1:45/1.0 | 95% | 60% | | 83% | 56% | | |
| | | | 5.0 | 1:45/1.0 | (3.7) | (2.9) | RS-4 | | | | |
| | | | | 2:15/1.0 | 74% | 58% | | | | | |
| | | | | 2:15/1.0 | | | | | | | |
| | | | | 2:00/1.0 | | | | | | | |
| 330 | 330.2 | 11.0 | | 2:00/1.0 | | | | | | | |
| | | | 5.0 | 2:15/1.0 | (5.0) | (2.9) | | | | | |
| | | | | 1:30/1.0 | 100% | 58% | | | | | |
| | | | | 2:00/1.0 | | | | | | | |
| | | | | 2:15/1.0 | | | | | | | |
| 325 | 325.2 | 16.0 | | 3:00/1.0 | | | RS-5 | | | | |
| | | | 5.0 | 3:00/1.0 | (3.5) | (2.5) | | | | | |
| | | | | 3:00/1.0 | 70% | 50% | RS-6 | | | | |
| | | | | 2:45/1.0 | | | RS-7 | | | | |
| | | | | 1:00/1.0 | | | | | | | |
| | 320.2 | 21.0 | | 0:45/1.0 | | | | | | | 320.2 / 21.0 |
| | | | | | | | | | | | Boring Terminated at Elevation 320.2 ft IN CRYSTALLINE ROCK (GNEISS) |