# NCDOT GEOTECHNICAL ENGINEERING UNIT
## BORELOG 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.** B2-D | **STATION** 197+78 | **OFFSET** 12 ft RT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 340.4 ft | **TOTAL DEPTH** 21.0 ft | **NORTHING** 990,364 | **EASTING** 2,220,528 / **24 HR.** FIAD |
| **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** 12/17/13 | **COMP. DATE** 12/17/13 | **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 | | | | | | | | | | | |
| 340 | | | | | | | | | | 340.4 GROUND SURFACE | 0.0 |
| | 339.4 | 1.0 | | | | | | | | **ROADWAY EMBANKMENT** BROWN, SANDY CLAY | |
| | 336.9 | 3.5 | 1 | 2 | 2 | 4 | | M | | | |
| 335 | 334.7 | 5.7 | 2 | 2 | 5 | 7 | | M | | 335.4 | 5.0 |
| | 334.4 | 6.0 | 100/0.3 | | | 100/0.3 60/0.0 | | | | 334.4 **WEATHERED ROCK** (GNEISS) | 6.0 |
| 330 | | | 60/0.0 | | | | RS-11 | | | **CRYSTALLINE ROCK** WHITE AND GRAY, HARD TO VERY HARD, FRESH, CLOSE TO MODERATELY CLOSE FRACTURE SPACING, GNEISS REC=98% RQD=98% RMR=84 | |
| 325 | | | | | | | RS-12 | | | | |
| 320 | | | | | | | RS-13 | | | 319.4 | 21.0 |
| | | | | | | | | | | Boring Terminated at Elevation 319.4 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.** B2-D | **STATION** 197+78 | **OFFSET** 12 ft RT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 340.4 ft | **TOTAL DEPTH** 21.0 ft | **NORTHING** 990,364 | **EASTING** 2,220,528 / **24 HR.** FIAD |
| **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** 12/17/13 | **COMP. DATE** 12/17/13 | **SURFACE WATER DEPTH** N/A |
| **CORE SIZE** NWD4 | **TOTAL RUN** 15.0 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 334.4 | | | | | | | | | | | Begin Coring @ 6.0 ft | |
| | 334.4 | 6.0 | 5.0 | *N=60/0.0* 2:15/1.0 2:45/1.0 2:45/1.0 2:30/1.0 2:30/1.0 | (4.8) 96% | (4.8) 96% | RS-11 | (14.7) 98% | (14.7) 98% | | 334.4 **CRYSTALLINE ROCK** WHITE AND GRAY, HARD TO VERY HARD, FRESH, CLOSE TO MODERATELY CLOSE FRACTURE SPACING, GNEISS RMR=84 | 6.0 |
| 330 | 329.4 | 11.0 | 5.0 | 2:45/1.0 3:30/1.0 2:45/1.0 3:00/1.0 3:30/1.0 | (4.9) 98% | (4.9) 98% | RS-12 | | | | | |
| 325 | 324.4 | 16.0 | 5.0 | 3:45/1.0 3:30/1.0 3:30/1.0 3:00/1.0 3:00/1.0 | (5.0) 100% | (5.0) 100% | | | | | | |
| 320 | 319.4 | 21.0 | | | | | RS-13 | | | | 319.4 | 21.0 |
| | | | | | | | | | | | Boring Terminated at Elevation 319.4 ft IN CRYSTALLINE ROCK (GNEISS) | |