# 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.** EB1-A | **STATION** 196+41 | **OFFSET** 52 ft LT | **ALIGNMENT** -L- — **0 HR.** N/A |
| **COLLAR ELEV.** 359.0 ft | **TOTAL DEPTH** 50.6 ft | **NORTHING** 990,319 | **EASTING** 2,220,383 — **24 HR.** Dry |
| **DRILL RIG/HAMMER EFF./DATE** SME1524 CME-45B 87% 10/07/2011 | | **DRILL METHOD** Mud Rotary | **HAMMER TYPE** Automatic |
| **DRILLER** Contract Driller | **START DATE** 12/13/13 | **COMP. DATE** 12/13/13 | **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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | | | | | | | | | | 359.0 GROUND SURFACE | 0.0 |
| | 357.2 | 1.8 | 2 | 3 | 2 | 5 | | M | | **ROADWAY EMBANKMENT** BROWN AND BLACK, SANDY SILT WITH SOME GRAVEL — 356.0 | 3.0 |
| 355 | 355.5 | 3.5 | 3 | 4 | 5 | 9 | | M | | BROWN AND ORANGE, SANDY CLAY WITH SOME GRAVEL | |
| | 353.0 | 6.0 | 1 | 2 | 1 | 3 | | M | | | |
| 350 | 350.5 | 8.5 | WOH | 1 | 1 | 2 | | M | | | |
| 345 | 345.5 | 13.5 | 2 | 3 | 3 | 6 | | M | | | |
| 340 | 340.5 | 18.5 | 5 | 5 | 5 | 10 | | M | | 337.0 | 22.0 |
| 335 | 335.5 | 23.5 | 2 | 3 | 3 | 6 | | M | | **ARTIFICIAL FILL** BROWN, SANDY CLAY | |
| 330 | 330.5 | 28.5 | 1 | 1 | 2 | 3 | | M | | 327.0 | 32.0 |
| 325 | 325.5 | 33.5 | 6 | 5 | 3 | 8 | | M | | **ALLUVIAL** BROWN, SANDY SILT WITH WOOD FRAGMENTS — 322.0 | 37.0 |
| 320 | 320.5 | 38.5 | 5 | 4 | 4 | 8 | | M | | **RESIDUAL** BROWN, GRAY, AND TAN, SANDY SILT | |
| 315 | 315.5 | 43.5 | 3 | 4 | 7 | 11 | | M | | 312.0 | 47.0 |
| 310 | 310.5 | 48.5 | 5 | 6 | 10 | 16 | | M | | BROWN, GRAY, AND TAN, SILTY SAND | |
| | 308.4 | 50.6 | 60/0.0 | | | 60/0.0 | | | | 308.4 | 50.6 |
| | | | | | | | | | | Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 308.4 ft ON CRYSTALLINE ROCK (GNEISS) | |

| | | | |
|---|---|---|---|
| **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.** EB1-B | **STATION** 195+96 | **OFFSET** 39 ft RT | **ALIGNMENT** -L- — **0 HR.** FIAD |
| **COLLAR ELEV.** 358.6 ft | **TOTAL DEPTH** 70.8 ft | **NORTHING** 990,222 | **EASTING** 2,220,412 — **24 HR.** FIAD |
| **DRILL RIG/HAMMER EFF./DATE** SME1524 CME-45B 87% 10/07/2011 | | **DRILL METHOD** Mud Rotary | **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 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | | | | | | | | | | 358.6 GROUND SURFACE | 0.0 |
| | 357.4 | 1.2 | 3 | 3 | 3 | 6 | | M | | 357.4 **ROADWAY EMBANKMENT** ASPHALT & CONCRETE | 1.2 |
| 355 | 355.1 | 3.5 | 2 | 1 | 2 | 3 | | M | | ORANGE AND BROWN, SANDY CLAY | |
| | 352.6 | 6.0 | 2 | 2 | 2 | 4 | | M | | | |
| 350 | 350.1 | 8.5 | 2 | 1 | 2 | 3 | | M | | | |
| 345 | 345.1 | 13.5 | 2 | 3 | 4 | 7 | | M | | | |
| 340 | 340.1 | 18.5 | 1 | 2 | 2 | 4 | | M | | 341.6 | 17.0 |
| | | | | | | | | | | BROWN, GRAY, AND ORANGE, SILTY CLAY WITH TRACE ORGANICS | |
| 335 | 335.1 | 23.5 | 2 | 1 | 3 | 4 | | M | | 336.6 | 22.0 |
| | | | | | | | | | | **ARTIFICIAL FILL** BROWN, ORANGE, AND GRAY, SANDY CLAY | |
| 330 | 330.1 | 28.5 | 2 | 7 | 8 | 15 | | M | | 326.6 | 32.0 |
| 325 | 325.1 | 33.5 | 1 | 3 | 3 | 6 | | M | | **RESIDUAL** BROWN, GRAY, AND TAN, SANDY SILT | |
| 320 | 320.1 | 38.5 | 2 | 3 | 4 | 7 | | M | | | |
| 315 | 315.1 | 43.5 | 2 | 3 | 3 | 6 | | M | | | |
| 310 | 310.1 | 48.5 | 2 | 4 | 4 | 8 | | M | | | |
| 305 | 305.1 | 53.5 | 4 | 4 | 8 | 12 | | M | | | |
| 300 | 300.1 | 58.5 | 11 | 13 | 14 | 27 | | M | | | |
| 295 | 295.1 | 63.5 | 5 | 6 | 10 | 16 | | M | | 291.6 | 67.0 |
| 290 | 290.1 | 68.5 | 11 | 21 | 79/0.5 | 100/1.0 | | M | | **WEATHERED ROCK** (GNEISS) | |
| | 287.8 | 70.8 | 60/0.0 | | | 60/0.0 | | | | 287.8 | 70.8 |
| | | | | | | | | | | Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 287.8 ft ON CRYSTALLINE ROCK (GNEISS) | |