# 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. EB2-A | STATION 199+27 | OFFSET 42 ft LT | ALIGNMENT -L- | 0 HR. FIAD |
| COLLAR ELEV. 361.3 ft | TOTAL DEPTH 34.1 ft | NORTHING 990,505 | EASTING 2,220,601 | 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 12/13/13 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 365 | | | | | | | | | | | |
| | | | | | | | | | | 361.3 GROUND SURFACE | 0.0 |
| 360 | 359.6 | 1.7 | | | | | | | | 359.6 **ROADWAY EMBANKMENT** ASPHALT & CONCRETE | 1.7 |
| | 358.0 | 3.3 | 3 | 3 | 4 | 7 | | M | | BROWN AND ORANGE, SANDY SILT | |
| | | | 3 | 3 | 3 | 6 | | M | | | |
| 355 | 355.0 | 6.3 | | | | | | | | | |
| | | | 2 | 3 | 4 | 7 | | M | | | |
| | 353.0 | 8.3 | 2 | 3 | 5 | 8 | | M | | | |
| 350 | | | | | | | | | | 349.8 | 11.5 |
| | 348.0 | 13.3 | 2 | 2 | 2 | 4 | | M | | **RESIDUAL** BROWN AND ORANGE, SANDY CLAY | |
| 345 | | | | | | | | | | | |
| | 343.0 | 18.3 | 3 | 3 | 3 | 6 | | M | | | |
| 340 | | | | | | | | | | 339.3 | 22.0 |
| | 338.0 | 23.3 | 5 | 6 | 7 | 13 | | M | | BROWN, ORANGE, AND TAN, CLAYEY SAND | |
| 335 | | | | | | | | | | 334.3 | 27.0 |
| | 333.0 | 28.3 | 6 | 10 | 15 | 25 | | M | | BROWN, GRAY, AND TAN, SANDY SILT | |
| 330 | | | | | | | | | | 330.3 | 31.0 |
| | 328.0 | 33.3 | | | | | | | | **WEATHERED ROCK** (GNEISS) | |
| | 327.2 | 34.1 | 45 | 55/0.1 | | 100/0.6 | | | | 327.2 | 34.1 |
| | | | 60/0.0 | | | 60/0.0 | | | | Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 327.2 ft ON CRYSTALLINE ROCK (GNEISS) | |

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| SITE DESCRIPTION SITE 1: DUAL BRIDGES ON -L- (I-85) OVER -Y2- (POPLAR MOUNT RD.) | | | | GROUND WTR (ft) |
| BORING NO. EB2-B | STATION 198+45 | OFFSET 58 ft RT | ALIGNMENT -L- | 0 HR. N/A |
| COLLAR ELEV. 360.5 ft | TOTAL DEPTH 36.3 ft | NORTHING 990,376 | EASTING 2,220,608 | 24 HR. 20.7 |
| DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011 | | DRILL METHOD Mud Rotary | HAMMER TYPE Automatic | |
| DRILLER Contract Driller | START DATE 12/12/13 | COMP. DATE 12/12/13 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 365 | | | | | | | | | | |
| | | | | | | | | | | 360.5 GROUND SURFACE 0.0 |
| 360 | 359.5 | 1.0 | | | | | | | | **ROADWAY EMBANKMENT** BROWN AND ORANGE, SANDY SILT |
| | | | 2 | 2 | 2 | 4 | | M | | |
| | 356.9 | 3.6 | | | | | | | | |
| 355 | | | 2 | 1 | 2 | 3 | | M | | 355.0 5.5 |
| | 354.4 | 6.1 | | | | | | | | **RESIDUAL** ORANGE AND BROWN, SILTY CLAY |
| | | | 2 | 3 | 4 | 7 | | M | | |
| | 351.9 | 8.6 | | | | | | | | |
| 350 | | | 3 | 5 | 7 | 12 | | M | | 348.5 12.0 |
| | 346.9 | 13.6 | | | | | | | | BROWN, ORANGE, AND GRAY, SANDY SILT |
| 345 | | | 3 | 4 | 5 | 9 | | M | | |
| | 341.9 | 18.6 | | | | | | | | |
| 340 | | | 3 | 4 | 5 | 9 | | M | | |
| | 336.9 | 23.6 | | | | | | | | |
| 335 | | | 3 | 4 | 6 | 10 | | M | | |
| | 331.9 | 28.6 | | | | | | | | |
| | | | 8 | 10 | 12 | 22 | | M | | |
| 330 | 329.9 | 30.6 | | | | | | | | |
| | | | 7 | 27 | 26 | 53 | | M | | |
| 325 | | | | | | | | | | |
| | 324.2 | 36.3 | 60/0.0 | | | 60/0.0 | | | | 324.2 36.3 |
| | | | | | | | | | | Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 324.2 ft ON CRYSTALLINE ROCK (GNEISS) |