# 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.** B2-A | **STATION** 198+23 | **OFFSET** 47 ft LT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 339.5 ft | **TOTAL DEPTH** 21.6 ft | **NORTHING** 990,438 | **EASTING** 2,220,521 / **24 HR.** FIAD |
| **DRILL RIG/HAMMER EFF./DATE** SME1524 CME-45B 87% 10/07/2011 | | **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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 340 | | | | | | | | | | 339.5 GROUND SURFACE | 0.0 |
| | 338.5 | 1.0 | | | | | | | | **RESIDUAL** GRAY, WHITE, AND BROWN, SILTY SAND | |
| | | | 9 | 6 | 4 | 10 | | M | | | |
| | 336.0 | 3.5 | | | | | | | | 336.2 | 3.3 |
| 335 | 334.8 | 4.7 | 83 | 17/0.1 | | 100/0.6 | | | | 335.0 **WEATHERED ROCK** (GNEISS) | 4.5 |
| | | | 48 | 24 | 41 | 65 | | M | | | |
| | 333.2 | 6.3 | | | | | | | | 333.2 **RESIDUAL** GRAY, WHITE, AND BROWN, SILTY SAND | 6.3 |
| | 332.9 | 6.6 | 60/0.1 | | | 60/0.1 60/0.0 | RS-8 | | | 332.9 **CRYSTALLINE ROCK** (GNEISS) | 6.6 |
| | | | 60/0.0 | | | | | | | | |
| 330 | | | | | | | | | | | |
| 325 | | | | | | | RS-9 | | | WHITE, BLACK, AND GRAY, HARD TO VERY HARD, FRESH, WIDE FRACTURE SPACING, GNEISS REC=100% RQD=98% RMR=87 | |
| | | | | | | | RS-10 | | | | |
| 320 | | | | | | | | | | 317.9 | 21.6 |

Boring Terminated at Elevation 317.9 ft IN CRYSTALLINE ROCK (GNEISS)

NCDOT BORE DOUBLE I0914BB_GEO_BRDG_BH_DUALS_Y2.GPJ NC_DOT.GDT 1/21/14

# 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.** B2-A | **STATION** 198+23 | **OFFSET** 47 ft LT | **ALIGNMENT** -L- / **0 HR.** N/A |
| **COLLAR ELEV.** 339.5 ft | **TOTAL DEPTH** 21.6 ft | **NORTHING** 990,438 | **EASTING** 2,220,521 / **24 HR.** FIAD |
| **DRILL RIG/HAMMER EFF./DATE** SME1524 CME-45B 87% 10/07/2011 | | **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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 332.9 | | | | | | | | | | | Begin Coring @ 6.6 ft | |
| | 332.9 | 6.6 | 4.9 | *N=60/0.0* | (4.9) 100% | (4.9) 100% | RS-8 | (15.0) 100% | (15.0) 100% | | 332.9 WHITE, BLACK, AND GRAY, HARD TO VERY HARD, FRESH, WIDE FRACTURE SPACING, GNEISS RMR=87 | 6.6 |
| 330 | | | | 6:40/1.0 6:40/1.0 7:58/1.0 6:50/1.0 5:36/1.0 | | | | | | | | |
| | 328.0 | 11.5 | 5.0 | 5:07/0.9 4:34/1.0 4:29/1.0 4:10/1.0 4:24/1.0 4:41/1.0 | (5.0) 100% | (5.0) 100% | RS-9 RS-10 | | | | | |
| 325 | 323.0 | 16.5 | 5.1 | 4:26/1.0 4:44/1.0 4:07/1.0 4:05/1.0 | (5.1) 100% | (5.1) 100% | | | | | | |
| 320 | 317.9 | 21.6 | | 7:30/1.1 | | | | | | | 317.9 | 21.6 |

Boring Terminated at Elevation 317.9 ft IN CRYSTALLINE ROCK (GNEISS)

NCDOT CORE DOUBLE I0914BB_GEO_BRDG_BH_DUALS_Y2.GPJ NC_DOT.GDT 1/21/14