# NCDOT GEOTECHNICAL ENGINEERING UNIT
# BORELOG REPORT

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|---|---|---|---|---|
| **WBS** 38456.1.1 | **TIP** B-4659 | **COUNTY** WAKE | **GEOLOGIST** Pedro, J. L. | |
| **SITE DESCRIPTION** BRIDGE NO. 373 ON -L- (SR 1393) OVER BASAL CREEK | | | | **GROUND WTR (ft)** |
| **BORING NO.** EB2-A | **STATION** 16+91 | **OFFSET** 7 ft LT | **ALIGNMENT** -L- | **0 HR.** 11.4 |
| **COLLAR ELEV.** 320.0 ft | **TOTAL DEPTH** 18.8 ft | **NORTHING** 688,702 | **EASTING** 2,058,889 | **24 HR.** FIAD |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** H.S. Augers | **HAMMER TYPE** Automatic | |
| **DRILLER** Contract Driller | **START DATE** 12/03/13 | **COMP. DATE** 12/03/13 | **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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 320 | | | | | | | | | | 320.0 GROUND SURFACE | 0.0 |
| | | | | | | | | | | 319.5 **ROADWAY EMBANKMENT** ASPHALT | 0.5 |
| 315 | 316.3 | 3.7 | 5 | 4 | 5 | 9 | | M | | TAN ORANGE, SILTY SAND WITH SOME CLAY LAYERS | |
| | | | | | | | | | | 314.0 **ALLUVIAL** TAN-BROWN, SILTY SAND | 6.0 |
| 310 | 311.3 | 8.7 | 1 | 1 | 2 | 3 | | M | | | |
| | | | | | | | | | | 307.5 LIGHT GRAY, SANDY SILT WITH BASAL QUARTZ GRAVEL | 12.5 |
| 305 | 306.3 | 13.7 | 1 | 0 | 1 | 1 | | M W | | | |
| | | | | | | | | | | 302.3 | 17.7 |
| | 301.3 | 18.7 | 60/0.1 | | | 60/0.1 | | | | 301.3 **WEATHERED ROCK** (METAMORPHOSED GRANITE) | 18.7 |
| | | | | | | | | | | 301.2 **CRYSTALLINE ROCK** (METAMORPHOSED GRANITE) | 18.8 |

Boring Terminated with Standard Penetration Test Refusal at Elevation 301.2 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE)

Other Samples:
ST-1 (15.8 - 16.8)

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|---|---|---|---|---|
| **WBS** 38456.1.1 | **TIP** B-4659 | **COUNTY** WAKE | **GEOLOGIST** Pedro, J. L. | |
| **SITE DESCRIPTION** BRIDGE NO. 373 ON -L- (SR 1393) OVER BASAL CREEK | | | | **GROUND WTR (ft)** |
| **BORING NO.** EB2-B | **STATION** 16+80 | **OFFSET** 13 ft RT | **ALIGNMENT** -L- | **0 HR.** 11.0 |
| **COLLAR ELEV.** 319.6 ft | **TOTAL DEPTH** 23.5 ft | **NORTHING** 688,698 | **EASTING** 2,058,866 | **24 HR.** 10.0 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** H.S. Augers | **HAMMER TYPE** Automatic | |
| **DRILLER** Contract Driller | **START DATE** 12/03/13 | **COMP. DATE** 12/03/13 | **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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 320 | | | | | | | | | | 319.6 GROUND SURFACE 0.0 |
| | | | | | | | | | | 318.1 **ROADWAY EMBANKMENT** TAN, SAND AND GRAVEL 1.5 |
| 315 | 316.1 | 3.5 | 1 | 3 | 3 | 6 | | M | | ORANGE-BROWN, SANDY SILT WITH TRACE MICA |
| | | | | | | | | | | 313.1 6.5 |
| 310 | 311.1 | 8.5 | 2 | 1 | 1 | 2 | | M | | **ALLUVIAL** TAN-BROWN, SILTY SAND |
| | | | | | | | | | | 310.0 9.6 |
| | | | | | | | | | | TAN, SANDY SILT WITH TRACE ORGANICS |
| | | | | | | | | | | 307.6 12.0 |
| 305 | 306.1 | 13.5 | WOH | WOH | 1 | 1 | | W | | GRAY-BROWN, SAND WITH WOOD DEBRIS |
| | | | | | | | | | | 301.4 18.2 |
| 300 | 301.1 | 18.5 | 16 | 17 | 21 | 38 | | M | | 300.2 GRAY, COARSE SAND AND BASAL QUARTZ GRAVEL (ROUNDED) 19.4 |
| | | | | | | | | | | **RESIDUAL** WHITE WITH GREEN, SAPROLITIC, SILTY SAND |
| | 296.1 | 23.5 | 60/0.0 | | | 60/0.0 | | | | 296.5 23.1 |
| | | | | | | | | | | 296.1 23.5 **CRYSTALLINE ROCK** (METAMORPHOSED GRANITE) |

Boring Terminated with Standard Penetration Test Refusal at Elevation 296.1 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE)