# NCDOT GEOTECHNICAL ENGINEERING UNIT
# BORELOG REPORT

| | | | | |
|---|---|---|---|---|
| **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.** B1-B | **STATION** 15+85 | **OFFSET** 8 ft RT | **ALIGNMENT** -L- | **0 HR.** N/A |
| **COLLAR ELEV.** 310.4 ft | **TOTAL DEPTH** 10.9 ft | **NORTHING** 688,772 | **EASTING** 2,058,808 | **24 HR.** 2.9 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** NW Casing w/ SPT | **HAMMER TYPE** Automatic | |
| **DRILLER** Contract Driller | **START DATE** 12/11/13 | **COMP. DATE** 12/11/13 | **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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 315 | | | | | | | | | | | |
| 310 | | | | | | | | | | 310.4 GROUND SURFACE | 0.0 |
| | 309.5 | 0.9 | WOH | WOH | WOH | | | M | | **ALLUVIAL** ORANGE TO GRAY, SANDY SILT WITH TRACE ORGANICS | |
| 305 | 304.5 | 5.9 | 1 | 5 | 17 | | | M | | 303.7 | 6.7 |
| | | | | | | | | | | 303.0 GRAY, COARSE SAND WITH BASAL QUARTZ GRAVEL | 7.4 |
| | | | | | | | | | | 301.2 | 9.2 |
| 300 | 299.5 | 10.9 | 60/0.0 | | | 60/0.0 | | | | 299.8 **RESIDUAL** GREEN AND WHITE, SILTY SAND | 10.6 |
| | | | | | | | | | | 299.5 **WEATHERED ROCK** (METAMORPHOSED GRANITE) | 10.9 |
| | | | | | | | | | | **CRYSTALLINE ROCK** (METAMORPHOSED GRANITE) | |
| | | | | | | | | | | Boring Terminated with Standard Penetration Test Refusal at Elevation 299.5 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE) | |

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| **WBS** 38456.1.1 | **TIP** B-4659 | **COUNTY** WAKE | **GEOLOGIST** Swartley, J. R. | |
| **SITE DESCRIPTION** BRIDGE NO. 373 ON -L- (SR 1393) OVER BASAL CREEK | | | | **GROUND WTR (ft)** |
| **BORING NO.** B2-A | **STATION** 16+40 | **OFFSET** 6 ft LT | **ALIGNMENT** -L- | **0 HR.** N/A |
| **COLLAR ELEV.** 310.6 ft | **TOTAL DEPTH** 12.0 ft | **NORTHING** 688,741 | **EASTING** 2,058,856 | **24 HR.** 1.3 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** NW Casing w/ SPT | **HAMMER TYPE** Automatic | |
| **DRILLER** Contract Driller | **START DATE** 12/04/13 | **COMP. DATE** 12/04/13 | **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 | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 315 | | | | | | | | | | | |
| 310 | 310.6 | 0.0 | 2 | 1 | 1 | | | M | | 310.6 GROUND SURFACE | 0.0 |
| | | | | | | | | | | **ALLUVIAL** BROWN AND ORANGE, SANDY SILT | |
| | | | | | | | | | | 307.6 | 3.0 |
| 305 | 304.8 | 5.8 | 1 | 4 | 7 | | | Sat. | | GRAY, COARSE SAND WITH BASAL QUARTZ GRAVEL | |
| | | | | | | | | | | 300.6 | 10.0 |
| 300 | 299.8 | 10.8 | 48 | 52/0.3 | | 100/0.8 | | | | **WEATHERED ROCK** (METAMORPHOSED GRANITE) | |
| | 298.6 | 12.0 | 60/0.0 | | | 60/0.0 | | | | 298.6 | 12.0 |
| | | | | | | | | | | Boring Terminated with Standard Penetration Test Refusal at Elevation 298.6 ft ON CRYSTALLINE ROCK (METAMORPHOSED GRANITE) | |