# 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.** B2-B | **STATION** 16+30 | **OFFSET** 8 ft RT | **ALIGNMENT** -L- — **0 HR.** N/A |
| **COLLAR ELEV.** 307.5 ft | **TOTAL DEPTH** 23.7 ft | **NORTHING** 688,740 | **EASTING** 2,058,838 — **24 HR.** 0.9 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** NW Casing W/SPT & Core | **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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 310 | | | | | | | | | | | |
| | | | | | | | | | | 307.5 GROUND SURFACE | 0.0 |
| 305 | 304.5 | 3.0 | 3 | 17 | 28 | 45 | | M | | **ALLUVIAL** GRAY, SILTY SAND WITH TRACE ORGANICS — 304.0 | 3.5 |
| | | | | | | | | | | 303.0 GRAY, COARSE SAND AND GRAVEL | 4.5 |
| | | | | | | | | | | **RESIDUAL** GRAY, COARSE SAND AND GRAVEL — 300.5 | 7.0 |
| 300 | 299.5 | 8.0 | 43 | 57/0.1 | | 100/0.6 60/0.0 | | | | **WEATHERED ROCK** (METAMORPHOSED GRANITE) — 298.0 | 9.5 |
| | 298.0 | 9.5 | 60/0.0 | | | | | | | **CRYSTALLINE ROCK** GREEN, WHITE, AND PINK, SLIGHTLY WEATHERED TO FRESH, HARD, CLOSE TO WIDE FRACTURE SPACING, METAMORPHOSED GRANITE | |
| 295 | | | | | | | | | | REC=99% RQD=80% | |
| 290 | | | | | | | | | | RMR=74 | |
| 285 | | | | | | | | | | 283.8 | 23.7 |
| | | | | | | | | | | Boring Terminated with Standard Penetration Test Refusal at Elevation 283.8 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE) | |





# NCDOT GEOTECHNICAL ENGINEERING UNIT
# CORE BORING 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.** B2-B | **STATION** 16+30 | **OFFSET** 8 ft RT | **ALIGNMENT** -L- — **0 HR.** N/A |
| **COLLAR ELEV.** 307.5 ft | **TOTAL DEPTH** 23.7 ft | **NORTHING** 688,740 | **EASTING** 2,058,838 — **24 HR.** 0.9 |
| **DRILL RIG/HAMMER EFF./DATE** SUM0093 DIEDRICH D-50 86% 08/15/2013 | | **DRILL METHOD** NW Casing W/SPT & Core | **HAMMER TYPE** Automatic |
| **DRILLER** Contract Driller | **START DATE** 12/11/13 | **COMP. DATE** 12/11/13 | **SURFACE WATER DEPTH** N/A |
| **CORE SIZE** NQ2 | **TOTAL RUN** 14.2 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 298 | | | | | | | | | | | Begin Coring @ 9.5 ft | |
| | 298.0 | 9.5 | 4.2 | N=60/0.0 2:26/1.0 2:31/1.0 3:11/1.0 2:34/1.0 | (4.2) 100% | (2.9) 69% | | (14.1) 99% | (11.4) 80% | | 298.0 **CRYSTALLINE ROCK** GREEN, WHITE, AND PINK, SLIGHTLY WEATHERED TO FRESH, HARD, CLOSE TO WIDE FRACTURE SPACING, METAMORPHOSED GRANITE | 9.5 |
| 295 | 293.8 | 13.7 | 5.0 | 0:38/0.2 4:07/1.0 2:22/1.0 2:44/1.0 2:59/1.0 3:31/1.0 | (4.9) 98% | (4.9) 98% | | | | | | |
| 290 | 288.8 | 18.7 | 5.0 | 3:01/1.0 3:30/1.0 3:15/1.0 3:35/1.0 | (5.0) 100% | (3.6) 72% | | | | | | |
| 285 | 283.8 | 23.7 | | 3:27/1.0 | | | | | | | 283.8 | 23.7 |
| | | | | | | | | | | | Boring Terminated with Standard Penetration Test Refusal at Elevation 283.8 ft IN CRYSTALLINE ROCK (METAMORPHOSED GRANITE) | |