

N.C.D.O.T. GEOTECHNICAL UNIT BORING LOG

| ROJEC | CT NO. | 8.T3 | 11002 | | | ID. | R-255 | 2AB | | COUN | TY John | nston | | GEOLOGIST M | . Lear |
|---|--------|--------|---------|--------------|--------------|----------|--------------|----------|-----------|-------------|---------|-------|--------|---|---------------------------|
| ITE DE | SCRIP | TION | Site 1: | Dual S | Structu | res on | Clavt | on bypa | ass (-L-) | over Wh | ite Oak | Creek | Austi | | GROUND WATER (m |
| ORING | NO. | B6-B L | | | | | | | | | SET 8. | | | ALIGNMENT -L- | 0 HR. N/A |
| BORING NO. B6-B LL BORING LOCATION 41+16.4 COLLAR ELEV. 58.46 m NORTHING 208,447.5 | | | | | | | | | STING | | | | | | |
| | | | | | | | <u> </u> | | | | | | | | 24 HR. N/A |
| | DEPTH | | | DRILL | . MAC | | | 45/bug | | | | | | | MER TYPE 63.5 kg mai |
| | TARTE | | 16/01 | | , | COM | PLETE | ED 8/1 | 6/01 | SU | RFACE V | VATER | DEP | TH 0.05m | |
| LEV. | DEPTH | BLO | OW COL | JNT | | | BLOV | NS PER | | | SAME | | | SOIL AND ROCK | CDESCRIPTION |
| (m) | (m) | 15cm | 15cm | 15cm | Ŷ | 20 | 4 | 10 | 60 8 | 30 1 | 00 NO. | MO | ıĞ | OOIL AND NOOF | , DESCRIPTION |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | l | | | | |
| 8.46 8.46 | 0.00 | WOH | WOH | 1 | | | | | | | | Sat. | | 58.46 Alluvium: Gray CLAY (| A_6) with roots and |
| ·Ŧ | | | | • | 7. | | | | | | | Jun | | - organic debris | 1-0) With 100ts and |
| 7.33 I | 1.13 | | | |]:\ | | | | | | | | | • | • |
| 丁 | | 2 | 3 | 4 | 1: } | 7 | | | | | : | Sat. | | - | |
| ‡ | | | | | : : \ | | | | | | | | | • • | |
| ‡ | | | | | : : | .\: : | | | | | | | | - 56.26 | inge, micaceous, slightly |
| 5.82 + | 2.64 | 7 | 8 | 10 | : : | : \ : | | <i>.</i> | | | : | Sat. | | - clayey, silty, fine SAND | (A-3) |
| Ŧ | | • | | .0 | 1:: | | | | | | : | Jac | 000 | 55.36 - 55.16 Alluvium: GRAVEL (A. | 4 -> (411) |
| + | | | | | | <u> </u> | | | | | | | | Residual: Tan and orar | nge, slightly sandy. |
| .29 ‡ | 4.17 | | | |] : : | : : | | | | | | | | clayey SILT (A-4) with | relict fabric |
| + | • | 5 | 4 | 6 |] : : (| 10 | | | : : : : | | : | W | | • • | |
| Ŧ | | | | | : : | : | | | | | : | | | • • | |
| | | | | | 1:: | | | | | | : | | | | |
| 2.74 | 5.72 | 8 | 22 | 30 | | | | | | | | w | | - - - | |
| Ŧ | | | | | : : | | | 752 | | | : | | | - | |
| Ŧ | | | | | : : | | | : /: : | | | : | | | - - | |
| .27 + | 7.19 | 14 | 20 | 18 | : : | | · · · | /::: | | | : - | w | | - - | |
| + | • | 144 | 20 | 10 | :: | | d | 38 | | | : | \ \v | | <u> </u> | |
| Ŧ | | | | | 1:: | | • • •, | | | | 1 | | त्रप्ट | - 50.46 No Recovery-Interprete | ed as Hard Weathered |
| .78 | 8.68 | | | | | | | | | | | | W | — Rock: Granite | • |
| ‡ | | 50/2cm | | | : : | | | | | 50/2cm | T | | | 49.62 Hard Rock: Green, whi | |
| ÷ | | | | | ; ; | | | | : : : : | : : : :· | | 4 | | orange (stain), fine to r moderately to slightly v | |
| E | | | | | : : | | | | | | RS-2 | | | fractured to sound, mo Granite (2 joints at 45- | derately hard to hard |
| # | | | | | 1:: | | | | | | | 7 | | 2 joints at 15 ° with Fe- | stain) |
| ‡ | | | | | | | | | | | | | | RS-1 sampled from 9.5 | 54m to 9 70m |
| ŧ | | | | | : : | | | | | | | | | 47.09 RS-2 sampled from 9.7 | 70m to 9.78m |
| Ŧ | | | | | : : | : : : | | | | | | | | No Recovery-Interprete SAND (A-2-4) | • |
| F | | | | | : : | | | | | | | 1 | 111 | Hard Rock: Gray, fine t | to medium grained, |
| ‡ | : 1 | | | | | | | | | | | | | fresh, sound, very hard with clay and Fe-oxide | Granite (1 ioint at 70° |
| ‡ | | | | | : : | | | | | | | | | - will clay and re-uxide | otall) |
| + | | | | | : : | | | | | | | | | • - | |
| Ē | | | | | <u> </u> | | | | | | | | | - - 44.43 | 1 |
| E | | | | | | | | | | | | | | | 4.03m (Elev: 44.43m) in |
| Ŧ | | | | | | | | | | | ľ | | [| - | |
| ‡ | | | | | | | | | | | | | [| Bits used: 7.6cm roller | cone and NQ core bit |
| ‡ | | | | | | | | | | | | | | Drilling Fluid: Water | • |
| ‡ | | | | | | | | | | | 1 | | | <u>-</u> | |
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N.C.D.O.T. GEOTECHNICAL UNIT

CORE BORING REPORT SHEET TOTAL NO. SHEETS 42 107

| W. | | | | | | | | | | | SHEET 1 OF 1 | | | | | | |
|--|--|-------------|-------------------|---------------|----------|--------------|------------------|--------------|-------------|-------------------|--|--|--|--|--|--|--|
| PROJE | CT NO. | 8.T | 311002 | | | ID. R-25 | 552AB | 3 | | CC | COUNTY Johnston GEOLOGIST M. Lear | | | | | | |
| | ESCRIP | | | | | | | | | ove | er White Oak Creek (Austin pond) GROUND WATER (m) | | | | | | |
| BORING NO. B6-B LL BORING LOCATION 41+16.4 | | | | | | | | | | | OFFSET 8.8m LT ALIGNMENT -L- 0 HR. N/A | | | | | | |
| | AR ELEV | | | NORTH | | | | | | | EASTING 652,950.9 24 HR. N/A | | | | | | |
| | DEPTH | | | DRILL | | HINE CM | | | | RILL | L METHOD Rotary Wash/NQ Core HAMMER TYPE 63.5 kg manual | | | | | | |
| | STARTE | | 3/16/01 | | | COMPLE | | | | | SURFACE WATER DEPTH 0.05m | | | | | | |
| | SIZE N | | DRILL | | RUN | TOTAL R | | RATA | | - | DRILLER D. White | | | | | | |
| ELEV. (m) | DEPTH (m) | (m) | RATE (Min/0.3m | REC. | | SAMP. NO. | REC. (m) % | | 90 | Ŀ | DESCRIPTION AND REMARKS | | | | | | |
| 40.76 | <u> </u> | 1003 | F:50 | 10.60 | 1000 | | 1,000 | 1 | - Inc | | Begin Coring @ 8.70 m | | | | | | |
| 49.76 | | 1. | 2:04 | (0.69) 83% | | | 0% | | | - 4 9. | 19.62 No Recovery-Interpreted as Hard Weathered Rock: Granite 8.84 Hard Rock: Green, white, pink, gray, and orange (stain), fine to medium | | | | | | |
| 48.93 | 9.53 | 1.50 | , | (1.46) | | | 98% | | | F | grained, moderately to slightly weathered, slightly fractured to sound, moderately hard to hard Granite (2 joints at 45-50° with clay and mica: 2 joints | | | | | | |
| | | | 2:20 1:50 | 97% | 93% | RS-2 | 1 | 1 | | Ē | at 15 ° with Fe-stain) | | | | | | |
| 47.43 | 11.03 | | 1:50 1:40 | | | | | | | E | RS-1 sampled from 9.54m to 9.70m RS-2 sampled from 9.70m to 9.78m | | | | | | |
| 11.00 | | 1.50 | | (0.86) 57% | | | (2.20) | 1 | | - 47. | .09 11.37 | | | | | | |
| İ | ! | | 0:14 | 0.70 | "" | ! | (0.00) 0% | | | 46 | No Recovery-Interpreted as Residual: silty SAND (A-2-4) 16.45 12.01 | | | | | | |
| 45.93 | 12.53 | | 4:46 6:23 | | <u> </u> | | (1.88) 93% | | | Ē | Hard Rock: Gray, fine to medium grained, fresh, sound, very hard Granite (1 joint at 70° with clay and Fe-oxide stain) | | | | | | |
| | | 1.50 | 7:30 | (1.35) 90% | | | | 1 | | E | • | | | | | | |
| | ! | | 7:36 10:02 | | | | | ' | | - | | | | | | | |
| 44.43 | 14.03 | - | 12:35 | | ┼ | <u> </u> | | | | - 44 | 44.43 Coring terminated at 14.03m (Elev: 44.43m) in Hard Rock: Granite | | | | | | |
| -1 | | | | | | ! | | ' | | F | Coming terminated at 14.00m (Elev. 44.40m) in Flato Rock. Granite | | | | | | |
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