

GROUND-WATER LEVELS

PASQUOTANK COUNTY—Continued

362601076230704. Local number, NC-204: DENR Morgans Corner Research Station well C12w4; County number, PK-191.

LOCATION.--Lat 36°25'54.1", long 76°22'32.0", Hydrologic Unit 03010205, near Morgans Corners on Secondary Road 1360 0.8 mi northeast of U.S. Highway 158. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Castle Hayne aquifer of Oligocene and Eocene age.

WELL CHARACTERISTICS.--Drilled observation well, depth 648 ft, diameter 4 in., cased to 385 ft, screened interval from 385 to 420 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 12.42 ft above NGVD of 1929. Measuring point: Top of casing, 2.57 ft above land-surface datum.

REMARKS.--Well is part of areal-effects network.

PERIOD OF RECORD.--September 1981 to current year. Continuous record began May 2001.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.42 ft above land-surface datum, Sept. 2, 1981; lowest water level recorded, 6.03 ft below land-surface, Aug. 21, 22, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 5.83 | 5.50 | 5.33 | 5.18 | 5.18 | 5.16 | 5.19 | 5.19 | 5.11 | 5.24 | 5.32 | 5.57 |
| 2 | 5.81 | 5.50 | 5.35 | 5.21 | 5.20 | 5.01 | 5.19 | 5.12 | 5.21 | 5.22 | 5.32 | 5.56 |
| 3 | 5.80 | 5.52 | 5.39 | 5.19 | 5.21 | 5.10 | 5.18 | 5.14 | 5.22 | 5.18 | 5.33 | 5.56 |
| 4 | 5.81 | 5.50 | 5.44 | 5.23 | 5.16 | 5.14 | 5.17 | 5.18 | 5.18 | 5.22 | 5.33 | 5.51 |
| 5 | 5.80 | 5.49 | 5.25 | 5.25 | 5.25 | 5.04 | 5.17 | 5.18 | 5.19 | 5.24 | 5.32 | 5.48 |
| 6 | 5.85 | 5.33 | 5.30 | 5.22 | 5.30 | 5.03 | 5.27 | 5.15 | 5.24 | 5.26 | 5.33 | 5.52 |
| 7 | 5.83 | 5.44 | 5.33 | 5.23 | 5.17 | 5.11 | 5.20 | 5.15 | 5.19 | 5.28 | 5.30 | 5.52 |
| 8 | 5.87 | 5.48 | 5.31 | 5.14 | 5.24 | 5.11 | 5.16 | 5.16 | 5.08 | 5.29 | 5.31 | 5.52 |
| 9 | 5.89 | 5.46 | 5.37 | 5.13 | 5.24 | 5.06 | 5.08 | 5.17 | 5.06 | 5.29 | 5.32 | 5.55 |
| 10 | 5.88 | 5.42 | 5.30 | 5.17 | 5.15 | 5.12 | 5.03 | 5.18 | 5.11 | 5.28 | 5.32 | 5.58 |
| 11 | 5.75 | 5.40 | 5.23 | 5.26 | 5.18 | 5.13 | 4.98 | 5.14 | 5.08 | 5.28 | 5.30 | 5.58 |
| 12 | 5.57 | 5.36 | 5.29 | 5.31 | 5.19 | 5.13 | 4.99 | 5.16 | 5.10 | 5.29 | 5.34 | 5.47 |
| 13 | 5.60 | 5.32 | 5.22 | 5.28 | 5.22 | 5.11 | 5.10 | 5.20 | 5.11 | 5.33 | 5.39 | 5.44 |
| 14 | 5.64 | 5.37 | 5.14 | 5.28 | 5.24 | 5.18 | 5.17 | 5.25 | 5.13 | 5.32 | 5.41 | 5.47 |
| 15 | 5.59 | 5.36 | 5.22 | 5.30 | 5.21 | 5.16 | 5.17 | 5.27 | 5.15 | 5.29 | 5.38 | 5.45 |
| 16 | 5.48 | 5.29 | 5.22 | 5.30 | 5.17 | 5.11 | 5.13 | 5.28 | 5.17 | 5.29 | 5.34 | 5.47 |
| 17 | 5.57 | 5.19 | 5.31 | 5.22 | 5.06 | 5.07 | 5.15 | 5.34 | 5.18 | 5.31 | 5.33 | 5.48 |
| 18 | 5.64 | 5.30 | 5.35 | 5.28 | 5.14 | 5.06 | 5.17 | 5.31 | 5.13 | 5.31 | 5.36 | 5.21 |
| 19 | 5.63 | 5.34 | 5.29 | 5.26 | 5.19 | 5.14 | 5.18 | 5.27 | 5.09 | 5.31 | 5.39 | 5.22 |
| 20 | 5.59 | 5.33 | 5.18 | 5.24 | 5.20 | 5.11 | 5.17 | 5.29 | 5.10 | 5.33 | 5.41 | 5.27 |
| 21 | 5.55 | 5.29 | 5.23 | 5.27 | 5.16 | 5.04 | 5.13 | 5.27 | 5.13 | 5.32 | 5.41 | 5.28 |
| 22 | 5.57 | 5.22 | 5.24 | 5.29 | 5.04 | 5.07 | 5.09 | 5.24 | 5.15 | 5.32 | 5.38 | 5.26 |
| 23 | 5.59 | 5.30 | 5.27 | 5.26 | 5.01 | 5.10 | 5.14 | 5.18 | 5.16 | 5.29 | 5.39 | 5.18 |
| 24 | 5.61 | 5.33 | 5.22 | 5.32 | 5.16 | 5.13 | 5.17 | 5.14 | 5.19 | 5.23 | 5.44 | 5.22 |
| 25 | 5.59 | 5.34 | 5.09 | 5.35 | 5.20 | 5.15 | 5.14 | 5.18 | 5.21 | 5.29 | 5.45 | 5.22 |
| 26 | 5.53 | 5.35 | 5.24 | 5.30 | 5.18 | 5.12 | 5.06 | 5.16 | 5.21 | 5.32 | 5.44 | 5.22 |
| 27 | 5.58 | 5.34 | 5.28 | 5.35 | 5.12 | 5.18 | 5.12 | 5.20 | 5.20 | 5.29 | 5.44 | 5.20 |
| 28 | 5.55 | 5.37 | 5.26 | 5.36 | 5.11 | 5.19 | 5.16 | 5.18 | 5.24 | 5.25 | 5.48 | 5.14 |
| 29 | 5.49 | 5.31 | 5.27 | 5.32 | --- | 5.17 | 5.15 | 5.11 | 5.23 | 5.27 | 5.51 | 5.20 |
| 30 | 5.43 | 5.24 | 5.29 | 5.31 | --- | 5.12 | 5.17 | 5.10 | 5.24 | 5.31 | 5.53 | 5.27 |
| 31 | 5.48 | --- | 5.27 | 5.22 | --- | 5.16 | --- | 5.11 | --- | 5.33 | 5.56 | --- |

WTR YR 2003 MEAN 5.28 HIGH 4.98 LOW 5.89

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