

GROUND-WATER LEVELS

BRUNSWICK COUNTY--Continued

335631078003605. Local number, NC-198; DENR Southport Research Station well GG32t5; County number, BR-082.

LOCATION.--Lat 33°56'31.42", long 78°00'35.08", North American Datum of 1983, Hydrologic Unit 03030005, north of Southport 0.45 miles northeast of Secondary Road 1526 on Secondary Road 1527. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Castle Hayne aquifer of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 74 ft, diameter 4 in., cased to 64 ft, screened from 64 to 74 ft; measured depth 72.0 ft, September 1997.

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

DATUM.--Land-surface datum is 28.26 ft above NGVD of 1929. Measuring point: Top of casing, 2.20 ft above land-surface datum, revised from 0.00, Oct. 29, 1999.

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

PERIOD OF RECORD.--January 1970 to current year. Continuous record began November 1999.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 20.68 ft below land-surface datum, Nov. 11 1999; lowest water level measured, 30.30 ft below land-surface datum, Aug. 26, 1970.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.60	21.84	21.91	21.97	22.11	22.00	21.61	22.09	22.28	22.44	21.97	21.98
2	21.60	21.84	21.92	22.02	22.13	22.00	21.65	22.09	22.29	22.44	21.96	21.91
3	21.60	21.83	21.93	22.02	22.12	21.95	21.65	22.10	22.31	22.43	21.95	21.89
4	21.58	21.82	21.94	22.06	22.09	21.95	21.68	22.14	22.34	22.45	21.95	21.87
5	21.58	21.82	21.95	22.09	22.12	22.00	21.68	22.15	22.36	22.46	21.92	21.86
6	21.58	21.82	21.95	22.02	22.11	22.01	21.69	22.16	22.37	22.43	21.89	21.88
7	21.61	21.84	21.94	22.01	21.96	22.00	21.72	22.15	22.39	22.45	21.86	21.89
8	21.65	21.84	21.94	22.07	21.93	21.99	21.74	22.16	22.44	22.48	21.86	21.91
9	21.70	21.86	21.94	22.09	21.95	21.98	21.77	22.17	22.45	22.50	21.87	21.91
10	21.72	21.87	21.96	22.10	21.94	21.98	21.79	22.20	22.46	22.54	21.90	21.87
11	21.73	21.87	21.86	22.11	21.92	21.99	21.82	22.22	22.47	22.50	21.93	21.85
12	21.73	21.90	21.86	22.13	21.93	21.97	21.82	22.23	22.47	22.46	21.97	21.87
13	21.74	21.92	21.85	22.12	21.94	21.79	21.82	22.22	22.50	22.44	22.00	21.89
14	21.72	21.93	21.83	22.12	21.95	21.81	21.81	22.16	22.51	22.34	22.05	21.87
15	21.68	21.93	21.85	22.08	21.93	21.83	21.84	22.22	22.52	22.28	22.09	21.79
16	21.67	21.94	21.86	22.11	21.89	21.84	21.88	22.26	22.54	22.26	22.13	21.76
17	21.69	21.96	21.81	22.10	21.89	21.85	21.91	22.26	22.57	22.24	22.15	21.77
18	21.71	21.98	21.74	22.11	21.93	21.84	21.92	22.25	22.59	22.22	22.18	21.77
19	21.71	21.96	21.75	22.09	21.95	21.84	21.93	22.26	22.59	22.21	22.22	21.74
20	21.71	21.94	21.77	22.09	21.93	21.79	21.93	22.29	22.54	22.21	22.27	21.70
21	21.72	21.95	21.80	22.07	21.92	21.74	21.94	22.31	22.50	22.21	22.31	21.69
22	21.72	21.96	21.84	22.09	21.93	21.72	21.94	22.31	22.43	22.23	22.34	21.71
23	21.72	21.95	21.85	22.07	21.93	21.72	21.97	22.31	22.37	22.12	22.35	21.73
24	21.71	21.90	21.84	22.04	21.93	21.70	22.01	22.31	22.36	22.06	22.35	21.66
25	21.71	21.89	21.85	22.04	21.93	21.70	21.98	22.33	22.37	22.07	22.36	21.67
26	21.73	21.88	21.84	22.06	21.90	21.70	21.98	22.37	22.38	22.02	22.39	21.66
27	21.76	21.89	21.85	22.07	21.89	21.67	22.02	22.40	22.36	22.00	22.35	21.62
28	21.81	21.89	21.85	22.07	21.94	21.69	22.02	22.41	22.37	21.98	22.23	21.61
29	21.84	21.90	21.86	22.09	---	21.69	22.02	22.37	22.39	21.96	22.15	21.61
30	21.84	21.90	21.90	22.11	---	21.67	22.07	22.30	22.42	21.96	22.06	21.61
31	21.85	---	21.94	22.12	---	21.65	---	22.28	---	21.97	22.01	---

WTR YR 2002 MEAN 22.00 HIGH 21.58 LOW 22.59

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