



Water-Data Report 2007

335629078115406 Local number BR-079, DENR Sunset Harbor Research Station well GG34s6, NC-181.

Castle Hayne aquifer
Peedee Formation

Brunswick County, NC

LOCATION.--Lat 33°56'29", long 78°11'56" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03040207, 1 mi north of Sunset Harbor, and 4.3 mi south of North Carolina Highway 211 on Secondary Road 1112. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 102 ft, diameter 6 in., cased to 84 ft, open hole from 84 to 102 ft.

DATUM.--Land-surface datum is 28.06 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of instrument shelf, 2.02 ft above land-surface datum, January 14, 1987, to present.

PERIOD OF RECORD.--March 1987 to current year. Records from July 1974 to March 1978 are available in the files of NCDENR, Division of Water Quality.

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

REMARKS.--Well is part of Brunswick County ground-water study. Water levels affected by localized pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.24 ft below land-surface datum, October 22, 1999; lowest water level recorded, 15.86 ft below land-surface datum, September 29, 2007.

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.98	9.96	9.87	9.21	9.33	9.57	10.71	11.64	12.33	12.90	13.15	13.79
2	10.03	9.95	10.0	9.34	9.28	9.54	10.69	11.67	12.24	12.98	12.75	13.37
3	9.97	10.08	9.94	9.31	9.38	9.63	10.65	11.59	12.07	12.98	13.32	13.84
4	10.00	10.06	9.94	9.26	9.35	9.73	10.68	11.63	12.21	13.09	13.36	13.40
5	9.93	10.09	9.46	9.24	9.36	9.75	11.19	11.58	12.23	12.97	12.94	13.91
6	10.0	10.10	9.45	9.23	9.35	9.75	11.16	11.62	12.36	12.51	13.41	13.40
7	9.98	9.95	9.37	9.23	9.28	9.68	11.15	11.60	12.40	12.99	12.96	13.90
8	9.97	9.93	9.51	9.17	9.34	9.73	11.16	11.57	12.41	12.43	13.46	13.90
9	9.79	10.00	9.50	9.22	9.34	9.76	11.14	11.61	12.40	12.35	13.00	13.46
10	9.63	10.10	9.51	9.31	9.38	9.74	11.14	11.59	12.50	12.83	13.45	14.04
11	9.63	10.08	9.61	9.30	9.41	9.80	11.16	11.68	12.49	12.43	13.36	13.53
12	9.60	10.17	9.54	9.27	9.36	9.82	11.10	11.70	12.45	12.90	12.87	14.04
13	9.73	10.13	9.47	9.27	9.29	9.82	11.29	11.82	12.52	12.51	13.29	13.43
14	9.71	10.08	9.48	9.30	9.29	9.83	11.22	11.84	12.48	12.96	12.84	13.89
15	9.81	10.13	9.48	9.26	9.43	9.81	11.14	11.84	12.61	12.42	13.33	13.86
16	9.87	10.04	9.59	9.28	9.42	9.72	11.29	11.91	12.66	12.94	12.92	13.45
17	9.75	10.18	9.63	9.41	9.41	9.78	11.24	11.87	12.83	12.97	13.42	13.94
18	9.81	10.14	9.63	9.27	9.44	9.86	11.31	11.90	12.91	13.02	13.59	13.45
19	9.79	10.14	9.63	9.26	9.52	9.86	11.79	11.90	12.83	12.56	13.14	13.98
20	9.88	10.18	9.68	9.36	9.45	9.86	11.54	11.98	12.85	13.09	---	13.45
21	9.96	10.00	9.66	9.35	9.45	9.89	11.46	12.07	12.77	12.98	13.15	13.91
22	9.94	9.94	9.61	9.26	9.44	9.89	11.57	12.26	12.85	12.60	13.67	13.92
23	9.97	9.92	9.63	9.30	9.53	9.91	11.82	12.25	12.75	13.11	13.17	13.53
24	10.25	9.95	9.70	9.32	9.56	9.94	11.61	12.40	12.78	12.64	13.65	14.04
25	10.08	9.91	9.54	9.31	9.48	9.99	11.50	12.28	12.73	13.14	13.69	13.59
26	10.04	9.93	9.36	9.38	9.50	10.02	11.48	12.27	12.67	12.70	13.31	14.06
27	10.01	9.92	9.37	9.33	9.57	10.00	11.53	12.37	12.74	13.19	13.71	13.57
28	9.83	9.86	9.33	9.30	9.61	10.13	11.55	12.36	12.76	13.22	13.16	14.15
29	9.98	9.91	9.30	9.48	---	10.57	11.70	12.33	12.85	12.86	13.66	14.15
30	9.98	9.85	9.28	9.40	---	10.58	11.69	12.35	12.88	13.27	13.20	13.67
31	9.92	---	9.25	9.44	---	10.59	---	12.28	---	12.65	13.76	---
Mean	9.90	10.02	9.56	9.30	9.41	9.89	11.29	11.93	12.59	12.84	13.29	13.75
Max	10.25	10.18	10.00	9.48	9.61	10.59	11.82	12.40	12.91	13.27	13.76	14.15
Min	9.60	9.85	9.25	9.17	9.28	9.54	10.65	11.57	12.07	12.35	12.75	13.37

Water Year 2007	
Mean	11.15
High	9.17
Low	14.15

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