

Water-Data Report 2007

**335334078352106 Local number BR-123; DENR Calabash Research Station well HH39j7.**

Surficial aquifer system  
Post Miocene (Quaternary + Pliocene) Rocks  
Brunswick County, NC

LOCATION.--Lat 33°53'34", long 78°35'21" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03040207, .75 miles west of Country Club Drive on Carolina Shores Drive. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 56 ft, diameter 4 in., cased to 46 ft, screened interval from 46 to 56 ft.

DATUM.--Land-surface datum is 47.28 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of instrument shelf, 1.97 ft above land-surface datum, April 14, 1999, to present.

PERIOD OF RECORD.--April 1999 to current year. Continuous record began October 2000.

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 may be affected by local pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.49 ft below land-surface datum, October 8, 2005; lowest water level recorded, 23.12 ft below land-surface datum, May 11, 2001.

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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	3.54	3.32	---	0.84	1.32	2.22	3.10	4.05	5.03	5.19	6.06	6.19
2	3.62	---	---	1.02	0.59	2.13	3.13	4.09	5.01	5.22	6.10	6.22
3	3.68	---	---	1.23	0.72	2.22	3.17	4.14	4.44	5.27	6.12	6.28
4	3.72	---	---	1.34	0.88	2.33	3.18	4.16	4.37	5.31	6.13	6.34
5	3.75	---	---	1.22	1.06	2.38	3.26	4.18	4.39	5.34	6.16	6.42
6	3.80	---	---	0.93	1.17	2.42	3.30	4.22	4.43	5.37	6.19	6.48
7	3.82	---	---	1.06	1.20	2.43	3.34	4.26	4.46	5.40	6.22	6.54
8	3.81	---	---	0.99	1.38	2.49	3.37	4.30	4.48	5.40	6.24	6.59
9	3.54	---	---	1.15	1.48	2.53	3.39	4.32	4.54	5.41	6.28	6.63
10	---	---	---	1.40	1.59	2.54	3.42	4.34	4.62	5.44	6.30	6.66
11	3.46	---	---	1.53	1.69	2.59	3.40	4.32	4.54	5.50	6.32	6.68
12	3.54	---	---	1.61	1.73	2.63	3.44	4.36	4.57	5.52	6.34	6.68
13	3.63	---	---	1.66	1.69	2.66	3.52	4.40	4.64	5.55	6.35	6.51
14	3.69	---	---	1.71	1.18	2.68	3.54	4.45	4.68	5.58	6.35	6.40
15	---	---	---	1.74	1.38	2.71	3.34	4.49	4.73	5.42	6.36	6.41
16	---	---	---	1.79	1.53	2.39	3.28	4.53	4.78	5.43	6.40	6.46
17	---	---	---	1.86	1.63	2.23	3.38	4.54	4.85	---	6.43	6.55
18	3.86	---	---	1.66	1.74	2.42	3.45	4.46	4.91	---	6.46	6.61
19	3.86	---	---	1.52	1.87	2.56	3.51	4.49	4.97	---	6.48	6.65
20	3.90	---	---	1.71	1.86	2.66	3.58	4.55	5.00	---	6.51	6.63
21	3.96	---	3.12	1.80	1.87	2.73	3.62	4.60	4.98	---	6.54	6.54
22	3.94	---	2.97	0.96	1.87	2.75	3.66	4.65	5.03	---	6.56	6.55
23	3.97	---	1.42	0.79	2.00	2.79	3.70	4.69	5.08	---	6.58	6.59
24	4.07	---	1.45	0.92	2.06	2.83	3.73	4.72	5.11	---	6.57	6.65
25	4.06	---	1.08	1.07	2.03	2.88	3.77	4.76	5.12	5.87	6.59	6.70
26	4.00	---	0.68	1.27	2.09	2.91	3.80	4.80	5.15	5.90	6.61	6.71
27	3.90	---	0.91	1.35	2.17	2.93	3.83	4.84	5.18	5.93	6.55	6.73
28	3.01	---	1.09	1.24	2.22	2.97	3.87	4.88	5.21	5.95	6.17	6.75
29	3.08	---	1.23	1.43	---	3.01	3.94	4.91	5.25	5.98	6.16	6.78
30	3.11	---	1.34	1.55	---	3.03	4.00	4.95	5.26	6.01	6.16	6.80
31	3.19	---	1.34	1.66	---	3.06	---	4.99	---	6.02	6.18	---
<b>Mean</b>	3.69	3.32	1.51	1.36	1.57	2.62	3.50	4.50	4.83	5.57	6.34	6.56
<b>Max</b>	4.07	3.32	3.12	1.86	2.22	3.06	4.00	4.99	5.26	6.02	6.61	6.80
<b>Min</b>	3.01	3.32	0.68	0.79	0.59	2.13	3.10	4.05	4.37	5.19	6.06	6.19

<b>Water Year 2007</b>	
<b>Mean</b>	3.94
<b>High</b>	0.59
<b>Low</b>	6.80

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