



Water-Data Report 2010

**335334078352106 Local number BR-123, NCDENR CALABASH RESEARCH STATION HH39J7 NEAR CALABASH, NC (SURFICIAL)**

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, 0.75 miles west of Country Club Drive on Carolina Shores Drive near Calabash. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

**GROUNDWATER 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 NGVD of 1929. Measuring point: top of casing, 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 groundwater monitoring network. Water levels may be affected by local pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.40 ft below land-surface datum, February 6, 2010; lowest water level recorded, 23.12 ft below land-surface datum, May 11, 2001.

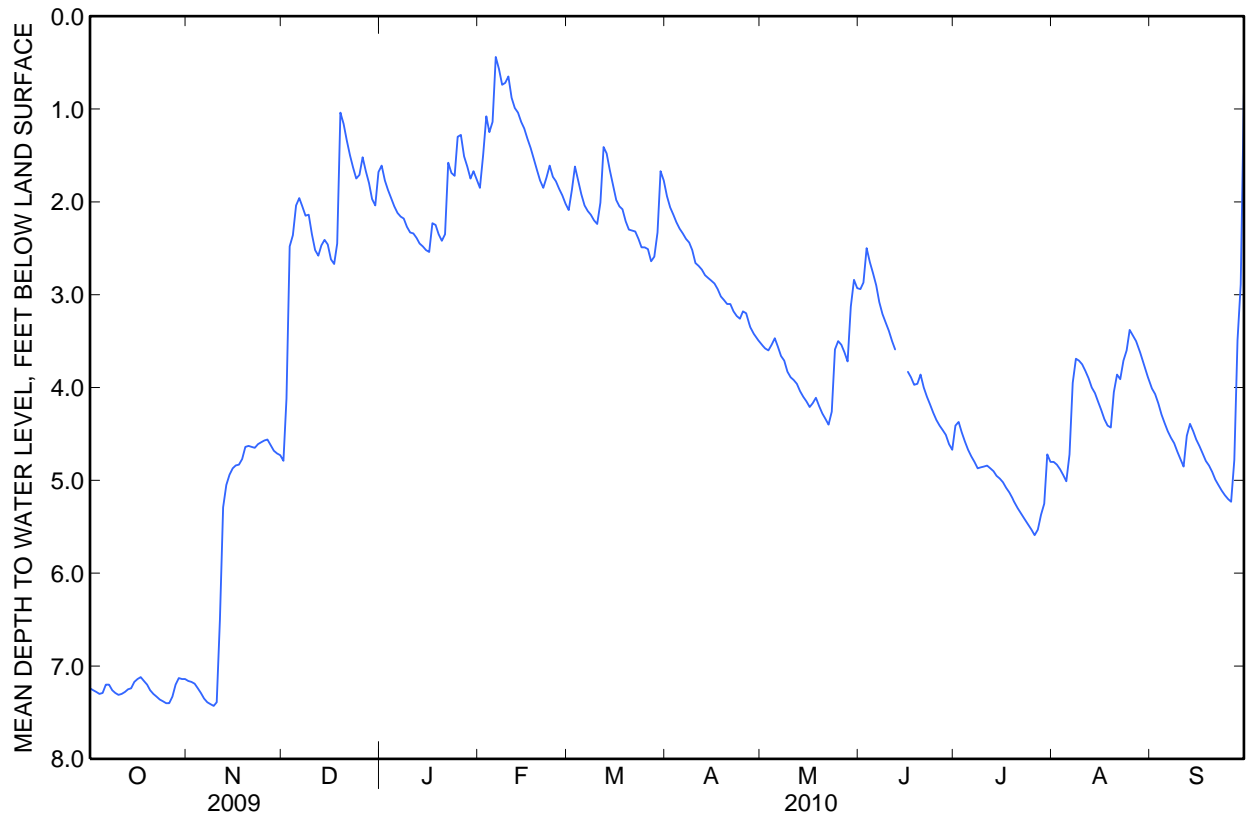
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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

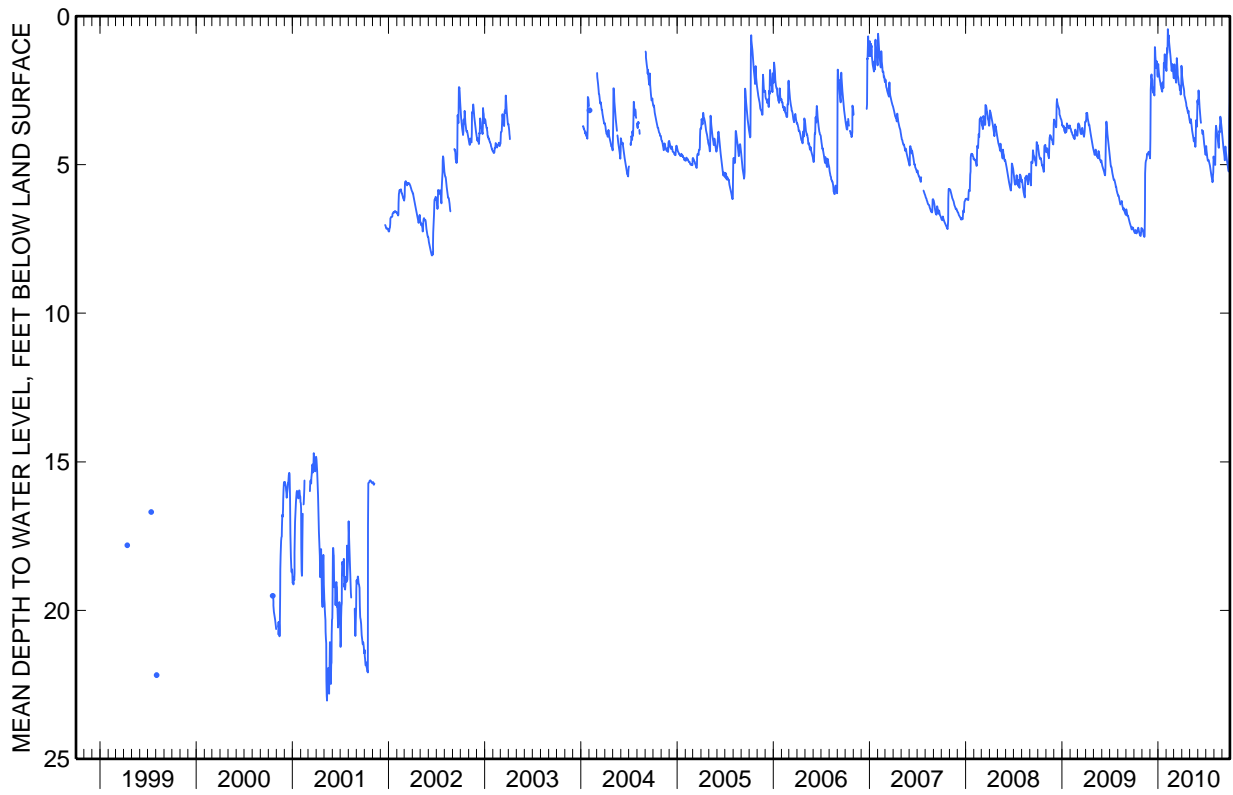
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.24	7.16	4.79	1.61	1.85	2.09	1.94	3.54	2.94	4.41	4.80	4.01
2	7.26	7.17	4.12	1.77	1.50	1.87	2.06	3.58	2.87	4.37	4.83	4.07
3	7.28	7.19	2.48	1.87	1.08	1.62	2.14	3.60	2.50	4.48	4.88	4.17
4	7.30	7.24	2.36	1.96	1.25	1.77	2.22	3.54	2.65	4.58	4.94	4.29
5	7.29	7.29	2.04	2.05	1.14	1.92	2.29	3.47	2.77	4.67	5.01	4.38
6	7.20	7.35	1.96	2.12	0.44	2.04	2.34	3.56	2.90	4.74	4.72	4.47
7	7.20	7.39	2.05	2.16	0.57	2.10	2.40	3.66	3.08	4.80	3.95	4.54
8	7.26	7.41	2.15	2.18	0.74	2.14	2.44	3.71	3.21	4.87	3.69	4.60
9	7.29	7.43	2.14	2.27	0.72	2.20	2.52	3.83	3.30	4.86	3.71	4.69
10	7.31	7.39	2.35	2.33	0.65	2.24	2.66	3.89	3.39	4.85	3.75	4.77
11	7.30	6.50	2.52	2.34	0.88	2.01	2.69	3.92	3.50	4.84	3.82	4.85
12	7.28	5.29	2.58	2.39	0.99	1.41	2.73	3.96	3.59	4.87	3.90	4.52
13	7.25	5.05	2.47	2.45	1.04	1.48	2.79	4.04	---	4.90	4.00	4.39
14	7.24	4.94	2.41	2.48	1.14	1.66	2.82	4.10	---	4.95	4.06	4.47
15	7.17	4.87	2.46	2.52	1.21	1.82	2.85	4.15	---	4.98	4.15	4.56
16	7.14	4.84	2.62	2.54	1.32	1.98	2.88	4.21	3.83	5.02	4.24	4.63
17	7.12	4.83	2.67	2.23	1.42	2.05	2.94	4.17	3.89	5.08	4.34	4.71
18	7.16	4.77	2.45	2.25	1.54	2.08	3.02	4.11	3.97	5.13	4.41	4.79
19	7.20	4.64	1.04	2.35	1.66	2.21	3.06	4.20	3.96	5.19	4.43	4.84
20	7.26	4.63	1.16	2.42	1.77	2.30	3.10	4.28	3.86	5.26	4.05	4.91
21	7.30	4.64	1.34	2.35	1.85	2.31	3.10	4.34	4.00	5.32	3.86	4.99
22	7.33	4.65	1.50	1.58	1.74	2.32	3.18	4.40	4.10	5.37	3.91	5.05
23	7.36	4.61	1.63	1.69	1.61	2.40	3.23	4.26	4.18	5.43	3.71	5.11
24	7.38	4.59	1.75	1.72	1.73	2.49	3.26	3.59	4.27	5.48	3.60	5.16
25	7.40	4.57	1.71	1.30	1.78	2.49	3.18	3.50	4.35	5.53	3.38	5.20
26	7.40	4.56	1.52	1.28	1.86	2.51	3.20	3.54	4.41	5.59	3.44	5.23
27	7.33	4.62	1.67	1.51	1.93	2.64	3.32	3.62	4.46	5.53	3.50	4.78
28	7.20	4.68	1.80	1.62	2.02	2.59	3.40	3.72	4.51	5.37	3.59	3.49
29	7.13	4.71	1.97	1.75	---	2.33	3.45	3.13	4.61	5.25	3.71	2.89
30	7.14	4.73	2.04	1.67	---	1.67	3.50	2.84	4.67	4.72	3.81	0.83
31	7.14	---	1.68	1.76	---	1.77	---	2.93	---	4.80	3.91	---
<b>Mean</b>	7.25	5.66	2.18	2.02	1.34	2.08	2.82	3.79	3.70	5.01	4.07	4.45
<b>Max</b>	7.40	7.43	4.79	2.54	2.02	2.64	3.50	4.40	4.67	5.59	5.01	5.23
<b>Min</b>	7.12	4.56	1.04	1.28	0.44	1.41	1.94	2.84	2.50	4.37	3.38	0.83

Water Year 2010	
<b>Mean</b>	3.71
<b>High</b>	0.44
<b>Low</b>	7.43

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**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water year 2010.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

[ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

<b>Date</b>	<b>Sample start time</b>	<b>Medium name</b>	<b>Sample type</b>	<b>Depth to water level, ft below land surface (72019)</b>	<b>Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)</b>	<b>Temperature, water, °C (00010)</b>	<b>Chloride, water, filtered, mg/L (00940)</b>
08-31-2010	1555	Ground water	Regular	3.92	524	25.2	44.0