



Water-Data Report 2010

335629078115407 Local number BR-080 (NC-182), NCDENR Sunset Harbor Research Station well GG34s7, near Sunset Harbor, NC (Surficial)

Surficial aquifer system
Post Miocene (Quaternary + Pliocene) Rocks
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).

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, drilled to 15 ft, diameter 4 in., cased to 10 ft, screened interval from 10 ft to 15 ft.

DATUM.--Land-surface datum is 28.06 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of collar on casing, 2.65 ft above land-surface datum, August 19, 1986 to present.

PERIOD OF RECORD.--January 1987 to September 1997, October 2000 to current year.

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

REMARKS.--Well is part of Brunswick County groundwater monitoring program. Water levels may be affected by local pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.63 ft above land-surface datum, October 8, 2005; lowest water level recorded, 14.27 ft below land-surface datum, October 31, 2003.

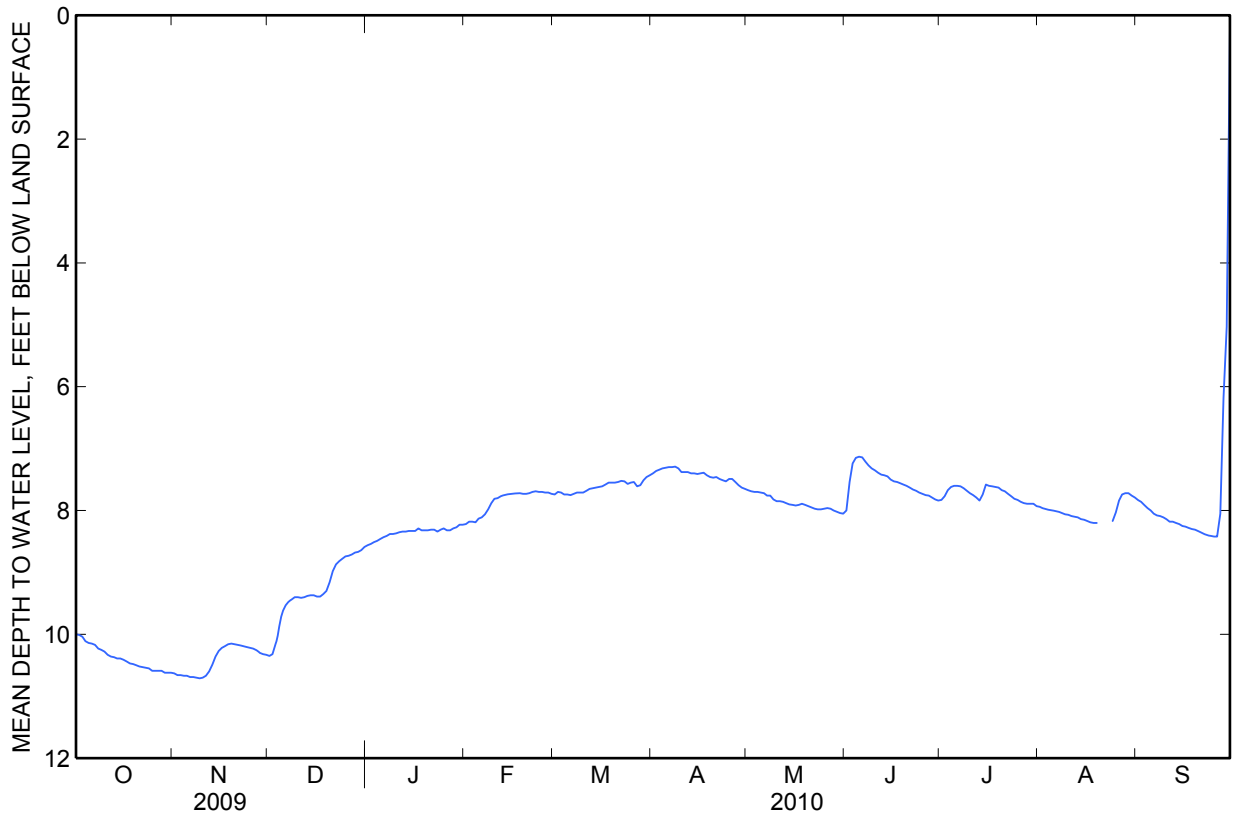
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(Surficial)—Continued

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

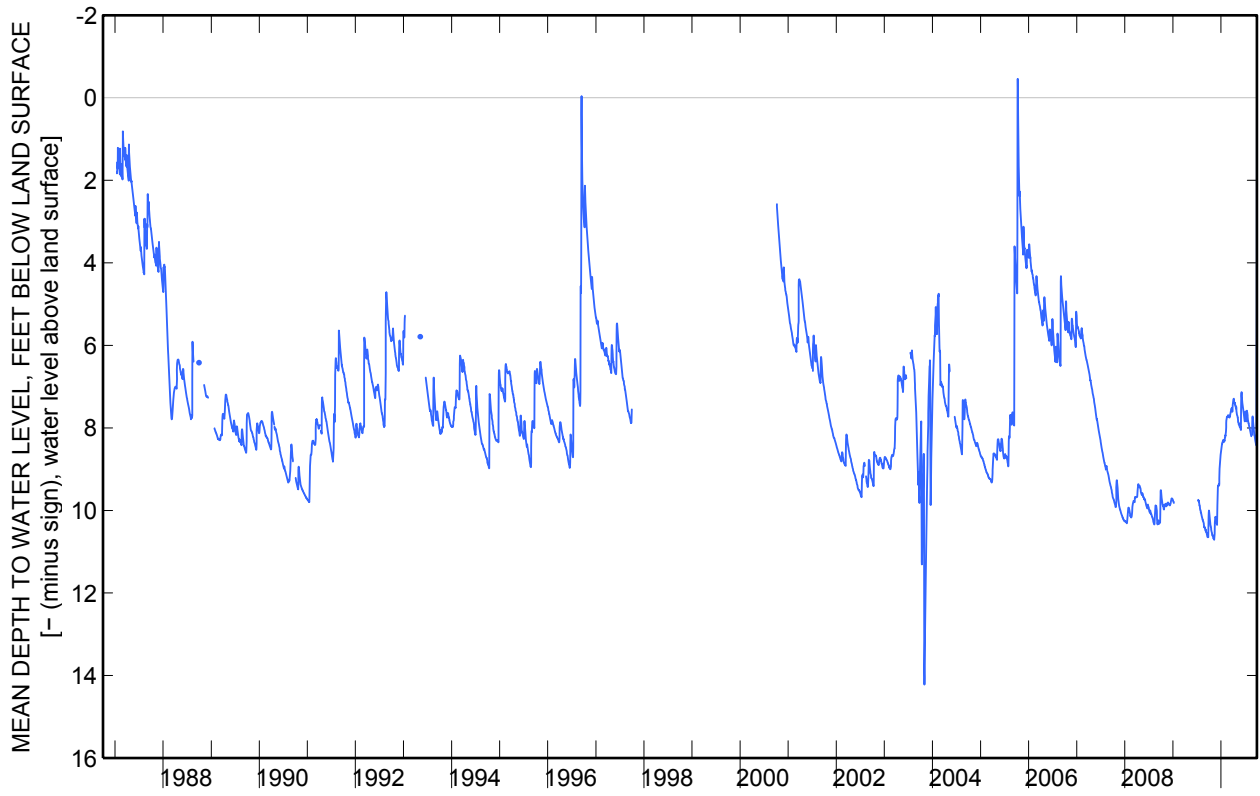
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.00	10.63	10.35	8.56	8.22	7.74	7.40	7.67	8.00	7.83	7.94	7.83
2	10.01	10.66	10.32	8.54	8.18	7.70	7.36	7.69	7.54	7.77	7.96	7.86
3	10.04	10.66	10.15	8.51	8.18	7.71	7.34	7.70	7.24	7.67	7.98	7.91
4	10.11	10.67	9.91	8.49	8.19	7.74	7.32	7.70	7.15	7.62	7.99	7.96
5	10.14	10.67	9.67	8.46	8.13	7.74	7.31	7.71	7.13	7.60	8.00	8.00
6	10.15	10.69	9.54	8.43	8.11	7.75	7.30	7.72	7.14	7.60	8.01	8.05
7	10.17	10.69	9.48	8.41	8.06	7.73	7.30	7.76	7.21	7.61	8.02	8.08
8	10.23	10.70	9.44	8.38	7.98	7.71	7.29	7.76	7.27	7.64	8.04	8.09
9	10.25	10.71	9.40	8.38	7.88	7.71	7.32	7.82	7.32	7.68	8.06	8.11
10	10.28	10.70	9.40	8.37	7.81	7.71	7.38	7.85	7.35	7.72	8.07	8.14
11	10.33	10.67	9.41	8.35	7.80	7.68	7.38	7.85	7.39	7.75	8.09	8.18
12	10.36	10.60	9.40	8.34	7.77	7.65	7.38	7.86	7.42	7.79	8.10	8.18
13	10.37	10.49	9.38	8.34	7.75	7.64	7.40	7.88	7.43	7.84	8.11	8.20
14	10.39	10.36	9.37	8.33	7.74	7.63	7.40	7.90	7.45	7.74	8.14	8.22
15	10.39	10.27	9.37	8.33	7.73	7.62	7.41	7.91	7.50	7.58	8.15	8.25
16	10.41	10.22	9.39	8.33	7.73	7.61	7.40	7.92	7.53	7.60	8.17	8.26
17	10.44	10.19	9.39	8.29	7.72	7.58	7.39	7.91	7.54	7.61	8.19	8.28
18	10.47	10.16	9.35	8.32	7.72	7.55	7.43	7.89	7.56	7.62	8.20	8.30
19	10.48	10.15	9.30	8.32	7.73	7.55	7.46	7.91	7.58	7.63	8.20	8.31
20	10.50	10.16	9.16	8.32	7.73	7.55	7.47	7.93	7.60	7.67	---	8.33
21	10.52	10.17	8.98	8.31	7.72	7.54	7.46	7.95	7.63	7.69	---	8.36
22	10.53	10.18	8.87	8.31	7.70	7.52	7.49	7.97	7.66	7.73	---	8.38
23	10.54	10.19	8.82	8.34	7.69	7.53	7.51	7.98	7.68	7.77	---	8.40
24	10.55	10.21	8.78	8.31	7.70	7.57	7.53	7.98	7.71	7.81	8.17	8.41
25	10.59	10.22	8.74	8.29	7.70	7.55	7.49	7.97	7.73	7.83	8.03	8.42
26	10.59	10.23	8.73	8.32	7.71	7.54	7.49	7.96	7.75	7.86	7.84	8.42
27	10.59	10.26	8.71	8.32	7.71	7.61	7.54	7.97	7.76	7.88	7.74	8.05
28	10.59	10.30	8.68	8.29	7.73	7.59	7.59	8.00	7.79	7.89	7.72	6.18
29	10.62	10.32	8.67	8.27	---	7.51	7.63	8.02	7.82	7.89	7.72	5.03
30	10.62	10.33	8.64	8.23	---	7.46	7.65	8.04	7.84	7.89	7.76	0.26
31	10.62	---	8.59	8.23	---	7.43	---	8.05	---	7.93	7.79	---
Mean	10.38	10.42	9.27	8.36	7.85	7.62	7.43	7.88	7.52	7.73	8.01	7.75
Max	10.62	10.71	10.35	8.56	8.22	7.75	7.65	8.05	8.00	7.93	8.20	8.42
Min	10.00	10.15	8.59	8.23	7.69	7.43	7.29	7.67	7.13	7.58	7.72	0.26

Water Year 2010	
Mean	8.36
High	0.26
Low	10.71

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000, 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]

Date	Sample start time	Medium name	Sample type	Depth to water level, ft below land surface (72019)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Chloride, water, filtered, mg/L (00940)
09-01-2010	1540	Ground water	Regular	7.86	53	24.0	10.6