

Water-Data Report 2010

**335629078115406 Local number BR-079 (NC-181), NCDENR Sunset Harbor Research Station well GG34s6,  
near Sunset Harbor, NC (Peedee)**

Northern Atlantic Coastal Plain aquifer system  
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).

**GROUNDWATER RECORDS**

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

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 are affected by local pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.24 ft below land-surface datum, October 22, 1999; lowest water level recorded, 17.28 ft below land-surface datum, September 5, 2008.

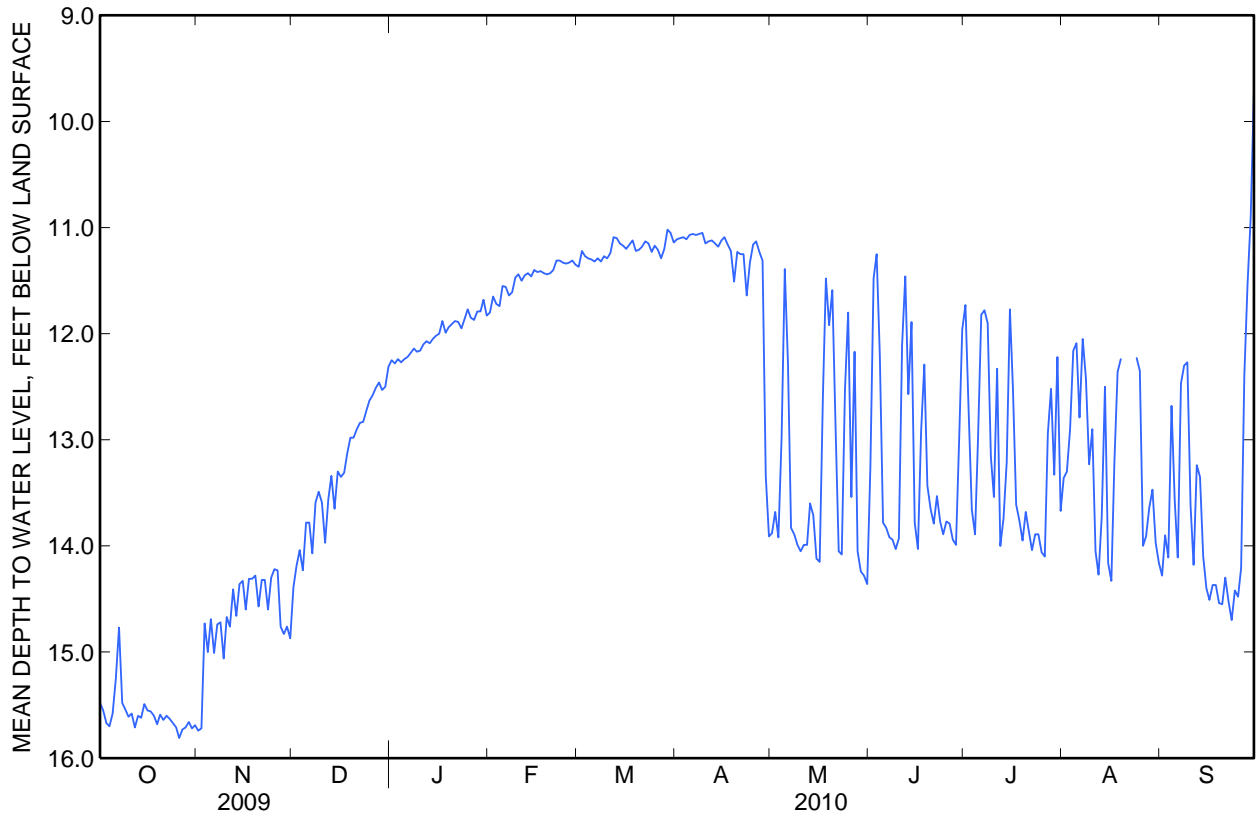
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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010  
DAILY MEAN VALUES**

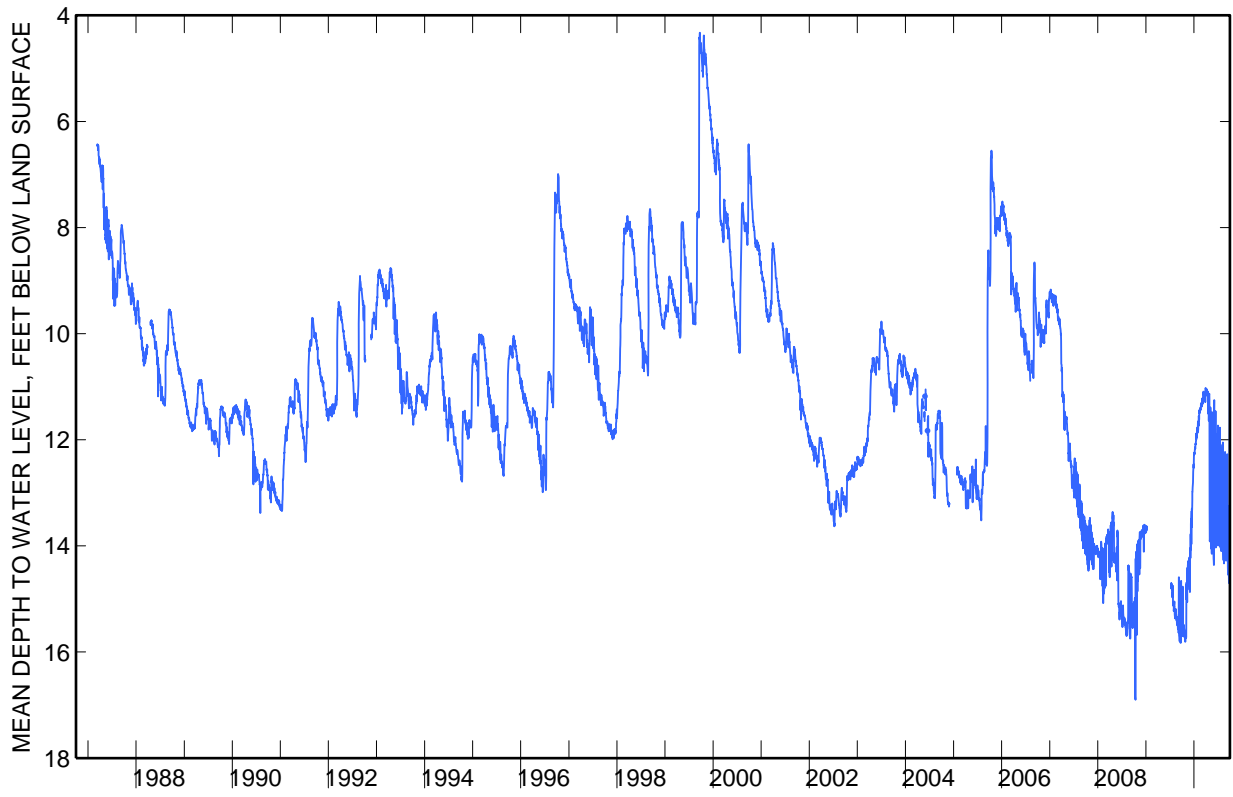
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15.48	15.74	14.39	12.25	11.80	11.37	11.11	13.88	13.25	11.73	13.36	14.28
2	15.55	15.72	14.19	12.28	11.65	11.22	11.10	13.68	11.48	12.73	13.30	13.90
3	15.67	14.73	14.04	12.24	11.72	11.27	11.09	13.92	11.25	13.66	12.90	14.11
4	15.70	15.00	14.23	12.27	11.74	11.29	11.11	12.98	12.21	13.89	12.16	12.68
5	15.58	14.69	13.78	12.24	11.55	11.30	11.07	11.39	13.78	12.97	12.09	13.57
6	15.25	15.01	13.78	12.22	11.56	11.32	11.06	12.29	13.83	11.82	12.79	14.11
7	14.77	14.74	14.07	12.18	11.64	11.29	11.07	13.83	13.92	11.78	12.05	12.47
8	15.48	14.72	13.59	12.14	11.61	11.32	11.06	13.89	13.94	11.90	12.42	12.30
9	15.54	15.06	13.49	12.17	11.47	11.27	11.05	13.99	14.03	13.16	13.23	12.27
10	15.61	14.67	13.59	12.16	11.44	11.29	11.15	14.05	13.93	13.54	12.90	13.62
11	15.58	14.76	13.97	12.10	11.50	11.24	11.13	13.99	12.11	12.33	14.05	14.18
12	15.71	14.41	13.56	12.07	11.45	11.09	11.12	13.99	11.46	14.00	14.27	13.24
13	15.60	14.66	13.34	12.09	11.43	11.10	11.15	13.60	12.57	13.74	13.72	13.35
14	15.62	14.36	13.65	12.05	11.46	11.15	11.18	13.71	11.89	13.21	12.50	14.10
15	15.49	14.33	13.30	12.02	11.40	11.17	11.12	14.12	13.78	11.77	14.16	14.40
16	15.55	14.60	13.35	12.00	11.42	11.20	11.09	14.15	14.03	12.52	14.33	14.51
17	15.56	14.31	13.31	11.88	11.41	11.16	11.16	12.60	12.92	13.61	13.21	14.37
18	15.60	14.31	13.13	11.99	11.43	11.12	11.22	11.48	12.29	13.76	12.36	14.37
19	15.68	14.28	12.98	11.94	11.44	11.22	11.51	11.92	13.43	13.95	12.24	14.54
20	15.59	14.57	12.98	11.91	11.43	11.21	11.23	11.59	13.65	13.68	---	14.55
21	15.64	14.32	12.90	11.88	11.40	11.18	11.25	12.86	13.79	13.86	---	14.30
22	15.60	14.32	12.84	11.89	11.31	11.13	11.25	14.05	13.53	14.04	---	14.52
23	15.63	14.60	12.83	11.95	11.31	11.15	11.64	14.08	13.77	13.89	---	14.70
24	15.67	14.30	12.73	11.86	11.33	11.23	11.33	12.53	13.89	13.89	12.23	14.42
25	15.71	14.22	12.63	11.77	11.34	11.17	11.16	11.80	13.77	14.06	12.35	14.48
26	15.81	14.23	12.58	11.85	11.33	11.21	11.13	13.54	13.79	14.10	14.00	14.21
27	15.73	14.76	12.51	11.87	11.31	11.29	11.23	12.17	13.94	12.94	13.91	12.40
28	15.71	14.83	12.46	11.79	11.35	11.20	11.31	14.05	13.99	12.52	13.64	11.54
29	15.66	14.76	12.53	11.79	---	11.02	13.34	14.24	12.98	13.33	13.47	10.90
30	15.72	14.87	12.50	11.68	---	11.05	13.91	14.28	11.96	12.22	13.97	9.72
31	15.69	---	12.31	11.83	---	11.14	---	14.36	---	13.67	14.16	---
<b>Mean</b>	15.59	14.66	13.28	12.01	11.47	11.21	11.34	13.32	13.17	13.17	13.18	13.54
<b>Max</b>	15.81	15.74	14.39	12.28	11.80	11.37	13.91	14.36	14.03	14.10	14.33	14.70
<b>Min</b>	14.77	14.22	12.31	11.68	11.31	11.02	11.05	11.39	11.25	11.73	12.05	9.72

Water Year 2010	
<b>Mean</b>	13.00
<b>High</b>	9.72
<b>Low</b>	15.81

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**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1975, 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]

<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>
09-01-2010	1515	Ground water	Regular	14.22	177	22.2	5.84