

Water-Data Report 2007

335629078115407 Local number BR-080, DENR Sunset Harbor Research Station well GG34s7, NC-182

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).

GROUND-WATER RECORDS

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

DATUM.--Land-surface datum is 28.06 ft above National Geodetic Vertical Datum of 1929 (levels by NCDENR). Measuring point: top of collar on 4-inch 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 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, 0.63 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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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	5.42	5.47	5.53	5.39	5.82	6.10	6.59	7.15	7.80	8.32	8.87	9.20
2	5.46	5.51	5.58	5.46	5.78	6.11	6.60	7.17	7.80	8.35	8.89	9.21
3	5.50	5.59	5.60	5.52	5.72	6.14	6.62	7.18	7.78	8.37	8.90	9.23
4	5.53	5.64	5.62	5.55	5.65	6.16	6.64	7.20	7.81	8.40	8.92	9.25
5	5.56	5.67	5.64	5.57	5.62	6.18	6.67	7.21	7.83	8.42	8.93	9.27
6	5.60	5.70	5.66	5.58	5.60	6.21	6.69	7.22	7.85	8.44	8.94	9.29
7	5.62	5.70	5.67	5.58	5.58	6.22	6.71	7.24	7.86	8.46	8.95	9.31
8	5.63	5.68	5.70	5.55	5.61	6.24	6.73	7.27	7.88	8.47	8.98	9.32
9	5.32	5.70	5.72	5.56	5.63	6.26	6.75	7.28	7.90	8.49	8.99	9.34
10	4.95	5.73	5.74	5.57	5.67	6.27	6.77	7.29	7.92	8.51	9.01	9.35
11	4.93	5.74	5.76	5.59	5.70	6.29	6.78	7.32	7.94	8.53	8.97	9.37
12	4.97	5.74	5.78	5.60	5.73	6.31	6.80	7.34	7.96	8.55	8.95	9.38
13	5.05	5.75	5.79	5.61	5.74	6.33	6.83	7.36	7.99	8.57	8.93	9.39
14	5.13	5.77	5.79	5.63	5.75	6.34	6.85	7.39	8.01	8.58	8.92	9.40
15	5.22	5.78	5.80	5.64	5.81	6.35	6.84	7.41	8.03	8.59	8.93	9.41
16	5.30	5.79	5.83	5.65	5.84	6.35	6.87	7.44	8.05	8.61	8.95	9.42
17	5.34	5.80	5.87	5.70	5.86	6.36	6.89	7.45	8.07	8.63	8.97	9.44
18	5.36	5.82	5.89	5.69	5.89	6.38	6.91	7.46	8.10	8.65	8.99	9.45
19	5.40	5.84	5.92	5.70	5.92	6.40	6.93	7.49	8.12	8.67	9.01	9.47
20	5.44	5.85	5.94	5.74	5.93	6.41	6.95	7.51	8.13	8.69	---	9.48
21	5.49	5.84	5.98	5.76	5.94	6.42	6.97	7.54	8.15	8.70	9.04	9.49
22	5.51	5.64	6.01	5.76	5.95	6.44	6.99	7.56	8.17	8.72	9.06	9.51
23	5.54	5.41	6.01	5.77	5.98	6.46	7.01	7.59	8.19	8.74	9.07	9.53
24	5.58	5.35	6.04	5.78	6.01	6.47	7.03	7.61	8.21	8.76	9.08	9.55
25	5.62	5.35	5.94	5.77	6.01	6.49	7.04	7.64	8.22	8.78	9.10	9.57
26	5.66	5.38	5.29	5.78	6.02	6.51	7.05	7.67	8.24	8.79	9.11	9.59
27	5.68	5.42	5.18	5.78	6.05	6.52	7.06	7.69	8.26	8.81	9.12	9.60
28	5.57	5.45	5.19	5.77	6.08	6.53	7.09	7.71	8.28	8.83	9.13	9.62
29	5.46	5.49	5.23	5.81	---	6.55	7.11	7.73	8.29	8.84	9.15	9.65
30	5.43	5.53	5.29	5.81	---	6.56	7.13	7.76	8.31	8.85	9.17	9.66
31	5.45	---	5.36	5.83	---	6.58	---	7.78	---	8.85	9.18	---
Mean	5.41	5.64	5.69	5.66	5.82	6.35	6.86	7.44	8.04	8.61	---	9.43
Max	5.68	5.85	6.04	5.83	6.08	6.58	7.13	7.78	8.31	8.85	---	9.66
Min	4.93	5.35	5.18	5.39	5.58	6.10	6.59	7.15	7.78	8.32	---	9.20

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