

Water-Data Report 2007

335334078352102 Local number BR-116; DENR Calabash Research Station well HH39j3.

Northern Atlantic Coastal Plain aquifer system
Black Creek Aquifer
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 mi 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 660 ft, diameter 6 in.; cased to 644 ft and from 654 to 660 ft, screened interval from 644 to 654 ft.

DATUM.--Land-surface datum is 47.59 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.79 ft above land-surface datum, May 3, 1974, to present..

PERIOD OF RECORD.--May 1973 to January 2008 (discontinued). Continuous record October 1999 to January 2008.

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

REMARKS.--Well is part of Brunswick County ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.79 ft below land-surface datum, May 7, 1973; lowest water level measured, 53.00 ft below land-surface datum, November 11, 1991.

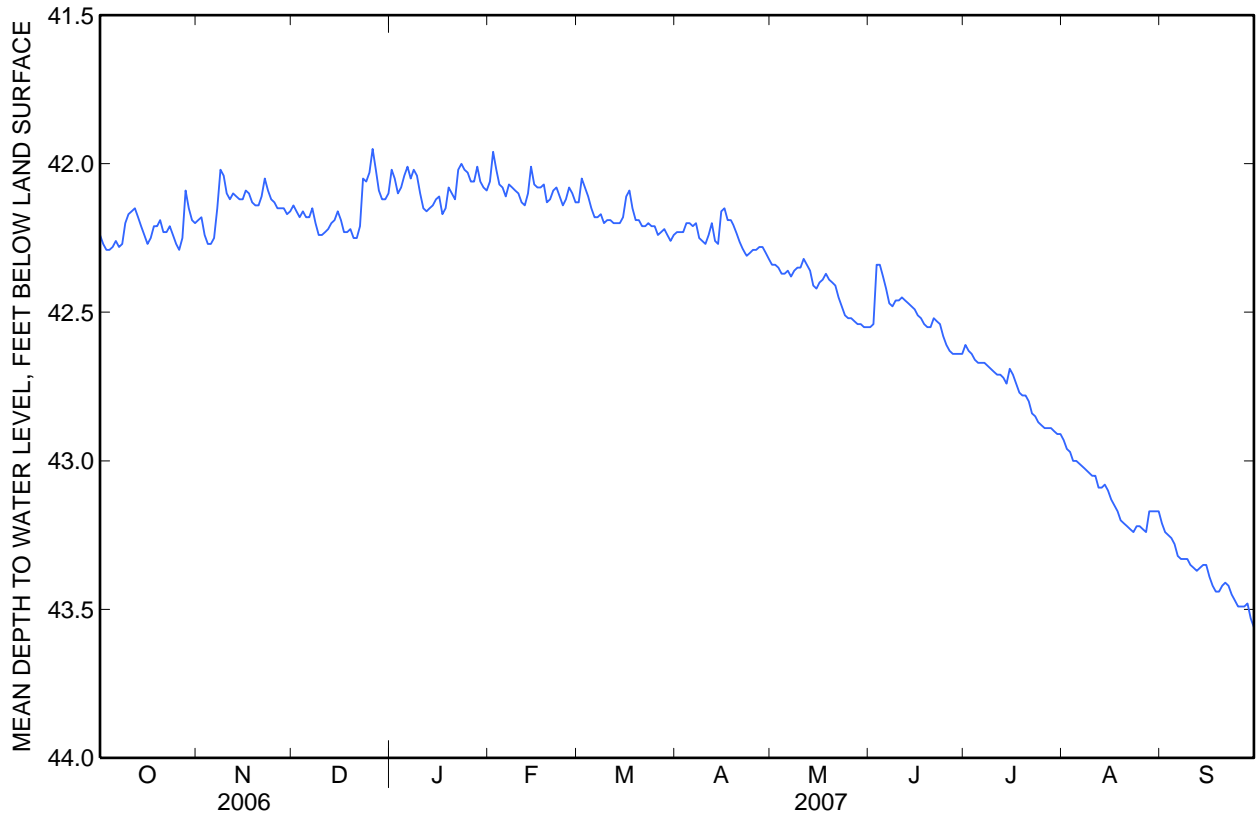
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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	42.24	42.19	42.14	42.02	42.06	42.13	42.23	42.34	42.55	42.61	42.93	43.21
2	42.27	42.18	42.16	42.05	41.96	42.05	42.23	42.34	42.54	42.63	42.96	43.24
3	42.29	42.24	42.18	42.10	42.02	42.08	42.23	42.35	42.34	42.64	42.97	43.25
4	42.29	42.27	42.16	42.08	42.07	42.11	42.20	42.37	42.34	42.66	43.00	43.26
5	42.28	42.27	42.18	42.04	42.08	42.15	42.20	42.37	42.38	42.67	43.00	43.28
6	42.26	42.25	42.18	42.01	42.11	42.18	42.21	42.36	42.42	42.67	43.01	43.32
7	42.28	42.15	42.15	42.05	42.07	42.18	42.20	42.38	42.47	42.67	43.02	43.33
8	42.27	42.02	42.20	42.02	42.08	42.17	42.25	42.36	42.48	42.68	43.03	43.33
9	42.20	42.04	42.24	42.04	42.09	42.20	42.26	42.35	42.46	42.69	43.04	43.33
10	42.17	42.10	42.24	42.10	42.10	42.19	42.27	42.35	42.46	42.70	43.05	43.35
11	42.16	42.12	42.23	42.15	42.13	42.19	42.24	42.32	42.45	42.71	43.05	43.36
12	42.15	42.10	42.22	42.16	42.14	42.20	42.20	42.34	42.46	42.71	43.09	43.37
13	42.18	42.11	42.20	42.15	42.10	42.20	42.26	42.36	42.47	42.72	43.09	43.36
14	42.21	42.12	42.19	42.14	42.01	42.20	42.27	42.41	42.48	42.74	43.08	43.35
15	42.24	42.12	42.16	42.12	42.07	42.18	42.16	42.42	42.49	42.69	43.10	43.35
16	42.27	42.09	42.19	42.11	42.08	42.11	42.15	42.40	42.51	42.71	43.13	43.39
17	42.25	42.10	42.23	42.17	42.08	42.09	42.19	42.39	42.52	42.74	43.15	43.42
18	42.21	42.13	42.23	42.15	42.07	42.15	42.19	42.37	42.54	42.77	43.17	43.44
19	42.21	42.14	42.22	42.08	42.13	42.19	42.21	42.39	42.55	42.78	43.20	43.44
20	42.19	42.14	42.25	42.10	42.12	42.19	42.24	42.40	42.55	42.78	43.21	43.42
21	42.23	42.11	42.25	42.12	42.09	42.21	42.27	42.41	42.52	42.80	43.22	43.41
22	42.23	42.05	42.21	42.02	42.08	42.21	42.29	42.45	42.53	42.84	43.23	43.42
23	42.21	42.09	42.05	42.00	42.11	42.20	42.31	42.48	42.54	42.85	43.24	43.45
24	42.24	42.12	42.06	42.02	42.14	42.21	42.30	42.51	42.58	42.87	43.22	43.47
25	42.27	42.13	42.03	42.03	42.12	42.21	42.29	42.52	42.61	42.88	43.22	43.49
26	42.29	42.15	41.95	42.06	42.08	42.24	42.29	42.52	42.63	42.89	43.23	43.49
27	42.25	42.15	42.02	42.06	42.10	42.23	42.28	42.53	42.64	42.89	43.24	43.49
28	42.09	42.15	42.09	42.01	42.13	42.22	42.28	42.54	42.64	42.89	43.17	43.48
29	42.15	42.17	42.12	42.06	---	42.24	42.30	42.54	42.64	42.90	43.17	43.53
30	42.19	42.16	42.12	42.08	---	42.26	42.32	42.55	42.64	42.91	43.17	43.56
31	42.20	---	42.10	42.09	---	42.24	---	42.55	---	42.91	43.17	---
Mean	42.22	42.14	42.16	42.08	42.09	42.18	42.24	42.42	42.51	42.76	43.11	43.39
Max	42.29	42.27	42.25	42.17	42.14	42.26	42.32	42.55	42.64	42.91	43.24	43.56
Min	42.09	42.02	41.95	42.00	41.96	42.05	42.15	42.32	42.34	42.61	42.93	43.21

Water Year 2007	
Mean	42.44
High	41.95
Low	43.56

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	43.57	43.54	43.87	43.91	---	---	---	---	---	---	---	---
2	43.56	43.53	43.87	43.95	---	---	---	---	---	---	---	---
3	43.55	43.54	43.83	44.03	---	---	---	---	---	---	---	---
4	43.55	43.57	43.84	44.07	---	---	---	---	---	---	---	---
5	43.57	43.58	43.83	44.04	---	---	---	---	---	---	---	---
6	43.55	43.57	43.89	44.03	---	---	---	---	---	---	---	---
7	43.55	43.60	43.94	44.03	---	---	---	---	---	---	---	---
8	43.56	43.62	43.94	---	---	---	---	---	---	---	---	---
9	43.56	43.62	43.96	---	---	---	---	---	---	---	---	---
10	43.54	43.62	43.96	---	---	---	---	---	---	---	---	---
11	43.53	43.67	43.97	---	---	---	---	---	---	---	---	---
12	43.57	43.69	43.96	---	---	---	---	---	---	---	---	---
13	43.60	43.68	43.96	---	---	---	---	---	---	---	---	---
14	43.63	43.67	43.96	---	---	---	---	---	---	---	---	---
15	43.65	43.64	43.97	---	---	---	---	---	---	---	---	---
16	43.66	43.67	43.88	---	---	---	---	---	---	---	---	---
17	43.66	43.70	43.95	---	---	---	---	---	---	---	---	---
18	43.66	43.72	44.00	---	---	---	---	---	---	---	---	---
19	43.64	43.75	44.00	---	---	---	---	---	---	---	---	---
20	43.65	43.75	43.99	---	---	---	---	---	---	---	---	---
21	43.71	43.76	43.95	---	---	---	---	---	---	---	---	---
22	43.73	43.73	43.94	---	---	---	---	---	---	---	---	---
23	43.71	43.74	43.94	---	---	---	---	---	---	---	---	---
24	43.69	43.80	43.94	---	---	---	---	---	---	---	---	---
25	43.66	43.78	43.95	---	---	---	---	---	---	---	---	---
26	43.65	43.76	43.89	---	---	---	---	---	---	---	---	---
27	43.55	43.76	43.89	---	---	---	---	---	---	---	---	---
28	43.53	43.82	43.92	---	---	---	---	---	---	---	---	---
29	43.56	43.82	43.91	---	---	---	---	---	---	---	---	---
30	43.57	43.83	43.90	---	---	---	---	---	---	---	---	---
31	43.57	---	43.90	---	---	---	---	---	---	---	---	---
Mean	43.60	43.68	43.93	44.01	---	---	---	---	---	---	---	---
Max	43.73	43.83	44.00	44.07	---	---	---	---	---	---	---	---
Min	43.53	43.53	43.83	43.91	---	---	---	---	---	---	---	---

Water Year 2008	
Mean	43.76
High	43.53
Low	44.07

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