

Water-Data Report 2007

335849078054301 Local number BR-100; Well 15A.

Castle Hayne aquifer
Castle Hayne Formation
Brunswick County, NC

LOCATION.--Lat 33°58'49", long 78°05'43" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03030005, west of Southport on North Carolina Highway 211, 1.82 mi northwest of intersection with North Carolina Highway 133. Owner: Brunswick County.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 158.3 ft, diameter 6 in.; cased to 60 ft, open hole from 60 ft to 158.3 ft.

DATUM.--Land-surface datum is 56 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Measuring point: top of instrument shelf, 2.42 ft above land-surface datum, October 19, 1999, to present.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-level recorder collecting data at 15-minute intervals. Satellite telemetry at station.

REMARKS.--Water levels are affected by pumping of Brunswick County Water Supply Well 15, located nearby. Well is part of the Brunswick County ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.30 ft below land-surface datum, April 1, 2000; lowest water level recorded, 52.32 ft below land-surface datum, July 3, 2007.

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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	49.44	33.56	33.12	44.50	43.25	44.52	43.15	48.29	51.82	52.13	51.94	51.61
2	49.66	33.56	33.25	44.65	43.02	44.20	39.89	48.46	51.67	52.25	51.96	51.69
3	49.77	33.84	33.24	44.71	43.28	44.18	42.77	48.80	51.34	52.29	51.93	51.64
4	44.99	33.93	33.28	44.63	43.33	44.23	42.93	49.08	51.51	52.27	51.87	51.57
5	37.47	33.86	33.33	44.52	43.33	44.28	43.08	49.24	51.58	52.21	51.85	51.63
6	36.31	33.73	33.23	44.51	43.33	44.27	43.14	49.29	51.75	52.07	50.57	51.74
7	35.75	33.42	33.04	44.59	43.06	44.01	43.21	49.54	44.79	51.96	44.34	51.73
8	35.39	33.11	33.30	44.37	43.12	44.10	43.40	49.60	39.96	51.93	51.17	51.63
9	35.07	33.25	33.32	44.44	43.11	44.20	43.41	49.74	39.32	51.96	51.53	51.55
10	34.84	33.49	33.23	44.61	43.14	44.12	43.43	49.87	38.98	51.95	51.67	51.60
11	34.58	33.48	39.33	44.68	43.26	44.09	43.36	50.00	45.43	51.93	51.78	51.53
12	34.26	33.44	44.85	44.50	43.23	44.03	43.33	50.13	50.87	51.95	51.87	51.58
13	34.17	33.48	45.20	44.31	43.04	43.77	36.04	50.30	51.23	51.99	51.31	51.65
14	34.07	33.31	45.30	44.24	42.87	43.65	40.82	50.60	51.44	52.02	51.75	51.60
15	34.00	33.27	45.26	44.19	43.18	43.56	43.65	50.42	51.63	52.00	51.84	51.53
16	33.93	33.19	45.45	44.17	43.27	43.36	40.25	50.59	51.75	52.05	51.82	51.68
17	33.68	33.39	45.52	44.52	43.25	43.40	42.02	50.63	51.83	52.08	51.64	51.72
18	33.52	33.42	45.44	44.37	43.18	43.51	44.40	50.75	51.92	52.03	51.72	51.70
19	33.46	33.40	45.40	44.17	43.46	43.56	44.73	50.90	51.96	51.97	51.75	51.64
20	33.35	33.45	45.53	44.28	43.30	43.45	44.70	50.96	51.96	51.93	51.73	51.60
21	33.54	33.34	45.51	44.28	43.20	43.47	44.63	51.06	52.03	52.03	51.72	51.60
22	33.48	33.16	45.35	44.01	43.19	43.40	45.19	51.22	51.97	52.11	51.72	51.60
23	33.42	33.29	45.26	44.09	43.37	43.32	45.69	51.36	51.98	52.11	51.72	51.60
24	33.55	33.30	45.43	43.90	43.50	43.29	46.11	51.43	52.11	52.14	51.69	51.62
25	33.67	33.31	45.14	43.63	43.31	43.29	46.58	51.48	52.21	52.12	51.62	51.62
26	33.70	33.28	44.94	43.66	43.51	43.32	46.99	51.55	52.21	52.09	51.60	51.56
27	33.55	33.30	45.13	43.46	44.34	43.19	47.24	51.63	52.14	52.01	51.64	51.18
28	33.25	33.48	45.21	43.19	44.59	43.15	47.50	51.71	52.10	51.92	51.62	51.03
29	33.58	33.43	45.14	43.48	---	43.25	47.79	51.76	52.11	51.90	51.58	51.08
30	33.65	33.31	44.96	43.45	---	43.28	48.05	51.81	52.11	51.91	51.50	51.02
31	33.59	---	44.77	43.44	---	43.18	---	51.86	---	51.91	51.50	---
Mean	36.02	33.43	41.18	44.18	43.32	43.70	43.92	50.45	50.12	52.04	51.42	51.55
Max	49.77	33.93	45.53	44.71	44.59	44.52	48.05	51.86	52.21	52.29	51.96	51.74
Min	33.25	33.11	33.04	43.19	42.87	43.15	36.04	48.29	38.98	51.90	44.34	51.02

Water Year 2007	
Mean	45.13
High	33.04
Low	52.29

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