

Water-Data Report 2007

335631078003604 Local number BR-081, DENR Southport Research Station well GG32t4, NC-197

Northern Atlantic Coastal Plain aquifer system
Peedee Formation
Brunswick County, NC

LOCATION.--Lat 33°56'31", long 78°00'35" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03030005, north of Southport, 0.45 mi northeast of Secondary Road 1526 on Secondary Road 1527. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 200 ft, diameter 6 in., cased to 93.5 ft, open hole from 93.5 to 200 ft; measured depth 199 ft, September 1997.

DATUM.--Land-surface datum is 28.08 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of instrument shelf, 1.17 ft above land-surface datum, October 29, 1999, to present.

PERIOD OF RECORD.--January 1970 to current year. Continuous record began October 1999.

REVISED RECORDS.--WDR NC-04-2: 2002

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

REMARKS.--Well is part of the Brunswick County ground-water study. Water levels affected by localized pumping since December 2002.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.28 ft below land-surface datum, March 8, 1988; lowest water level recorded, 58.39 ft below land-surface datum, January 28, 2005.

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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	49.42	49.02	47.64	44.48	51.62	41.57	48.57	49.23	50.34	49.73	49.64	49.49
2	49.54	50.20	47.71	36.05	48.81	40.78	49.63	49.49	50.35	49.77	49.63	49.45
3	49.60	49.35	47.60	34.92	48.61	40.29	51.85	49.51	49.96	49.80	49.67	49.38
4	49.50	49.26	45.44	42.13	48.50	40.72	53.85	49.22	49.74	49.79	49.69	49.42
5	49.53	49.26	45.17	44.47	50.79	41.26	53.90	49.00	49.68	49.77	49.66	49.46
6	49.66	49.07	46.77	45.48	52.65	41.66	53.80	48.90	49.76	49.79	49.66	49.50
7	49.65	48.83	47.21	46.11	49.85	41.78	53.90	48.01	49.90	49.88	49.72	49.42
8	49.54	48.65	42.74	46.23	49.11	41.91	54.04	47.11	50.00	49.82	49.66	49.32
9	49.39	48.61	35.59	46.48	47.57	42.08	52.87	48.03	49.96	49.71	49.42	49.26
10	49.34	48.68	33.15	48.26	48.24	42.12	51.31	48.14	49.90	49.68	49.29	49.32
11	49.35	48.64	31.76	50.28	46.16	42.08	50.65	48.30	49.77	49.76	49.20	49.47
12	49.39	48.57	32.23	47.61	44.82	42.12	50.28	48.49	49.62	49.78	49.12	49.57
13	49.53	47.84	39.86	46.19	43.03	42.19	50.26	48.62	49.61	49.84	49.05	49.46
14	49.62	46.63	40.34	44.11	39.86	42.18	50.21	48.65	49.58	49.92	48.97	49.39
15	49.64	47.99	42.31	43.32	41.72	42.16	49.89	48.63	49.52	49.80	48.84	49.37
16	49.72	48.32	44.77	42.96	41.39	42.17	49.86	48.71	49.46	49.77	48.95	48.94
17	49.38	48.47	45.91	42.92	40.79	42.19	49.83	48.62	49.45	49.82	49.21	48.42
18	49.20	48.60	46.49	42.66	40.33	42.04	49.84	48.42	49.54	49.92	49.45	48.44
19	49.13	48.65	46.89	44.41	40.30	41.83	49.83	48.47	49.75	50.03	49.55	48.48
20	49.15	48.55	47.26	47.20	40.72	41.76	50.00	48.52	49.74	50.12	49.49	48.44
21	49.39	48.04	47.43	48.29	41.00	41.80	50.07	48.63	49.58	50.01	49.60	48.32
22	49.32	48.14	47.44	49.27	41.19	41.92	50.12	48.91	49.47	49.92	49.75	48.45
23	49.20	48.29	47.40	46.65	41.43	41.84	50.16	49.30	49.57	49.82	---	48.59
24	49.84	48.33	47.43	47.45	41.67	42.37	49.71	49.51	49.66	49.91	---	48.73
25	49.69	48.38	47.24	47.44	41.61	46.05	49.55	49.59	49.62	---	---	---
26	51.00	48.39	47.07	49.14	41.50	49.13	49.31	49.69	49.61	49.98	---	48.89
27	54.15	47.98	47.34	46.84	41.56	49.87	48.75	49.78	49.70	50.03	---	48.92
28	49.61	48.15	47.58	44.02	41.63	48.83	48.68	49.88	49.81	50.04	49.78	49.05
29	49.09	48.32	47.46	47.84	---	48.73	48.78	49.99	49.86	49.84	49.64	49.22
30	49.12	47.99	47.51	51.20	---	48.60	48.94	50.15	49.78	49.67	49.54	49.12
31	49.07	---	47.58	50.34	---	48.28	---	50.29	---	49.65	49.52	---
Mean	49.64	48.51	44.46	45.64	44.52	43.30	50.61	48.96	49.74	49.85	49.45	49.08
Max	54.15	50.20	47.71	51.20	52.65	49.87	54.04	50.29	50.35	50.12	49.78	49.57
Min	49.07	46.63	31.76	34.92	39.86	40.29	48.57	47.11	49.45	49.65	48.84	48.32

Water Year 2007	
Mean	47.79
High	31.76
Low	54.15

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