

Water-Data Report 2008

335631078003604 Local number BR-081 (NC-197), NCDENR Southport Research Station well GG32t4, near Southport, NC (Peedee)

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, 1.6 mi north of Southport, on Secondary Road 1527. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 200 ft. Upper casing diameter 6 in; top of first opening 93.5 ft, bottom of last opening 200 ft. Drilled observation well, depth 200 ft, diameter 6 in., cased to 93.5 ft, open hole from 93.5 ft 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, Oct. 29, 1999, to present. Land-surface datum is 28.08 ft above NGVD 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 (daily water levels).

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

REMARKS.--Well is part of the Brunswick County ground-water study. Water levels affected by local 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.

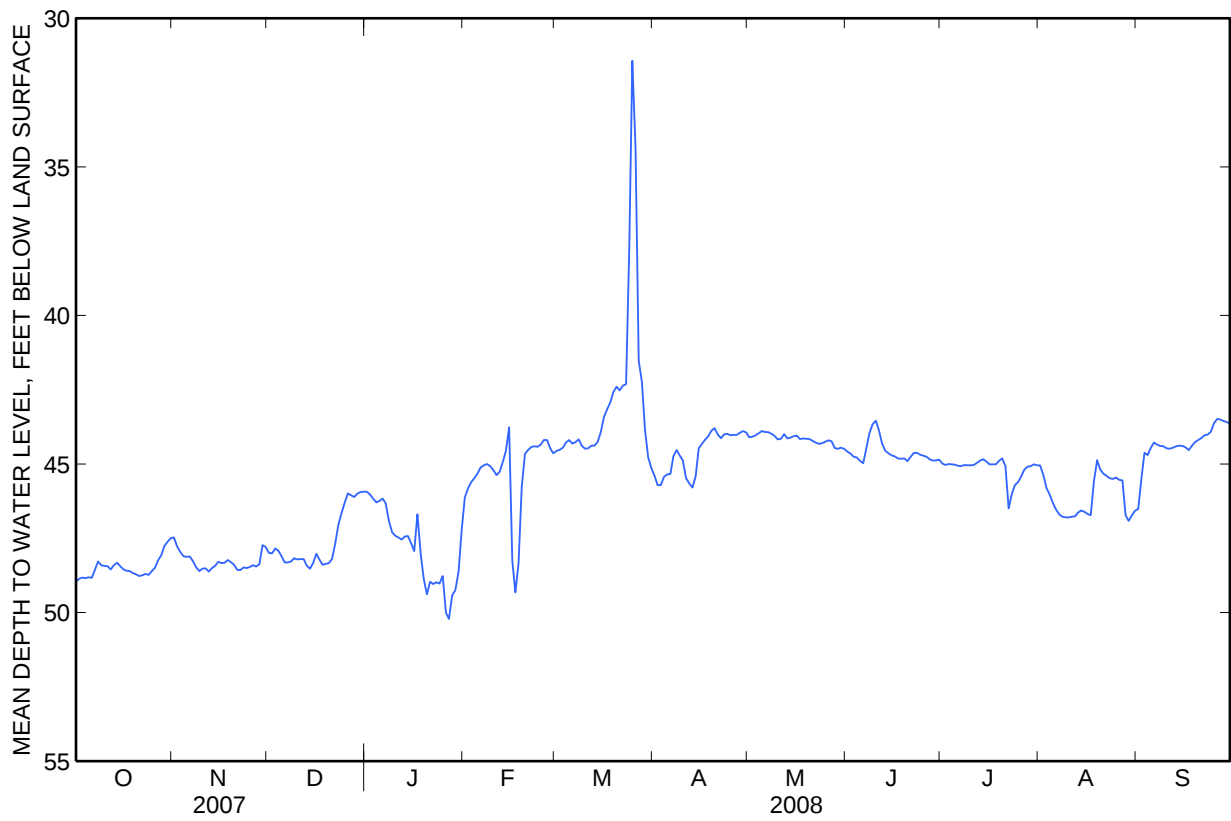
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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	48.96	47.47	47.99	45.93	46.13	44.56	45.40	44.10	44.58	44.98	45.05	46.51
2	48.86	47.77	48.01	46.02	45.82	44.52	45.71	44.08	44.65	45.03	45.37	45.53
3	48.82	47.96	47.84	46.16	45.61	44.45	45.71	44.03	44.75	45.00	45.81	44.62
4	48.84	48.10	47.91	46.29	45.48	44.28	45.43	43.96	44.78	45.01	46.02	44.70
5	48.81	48.12	48.09	46.24	45.32	44.19	45.35	43.89	44.89	45.02	46.30	44.45
6	48.83	48.11	48.31	46.16	45.11	44.31	45.33	43.92	44.97	45.06	46.53	44.28
7	48.55	48.27	48.31	46.33	45.04	44.26	44.73	43.93	44.49	45.07	46.69	44.34
8	48.28	48.48	48.28	46.92	45.00	44.17	44.53	43.98	43.96	45.03	46.77	44.39
9	48.41	48.60	48.17	47.30	45.07	44.38	44.72	44.05	43.66	45.04	46.79	44.40
10	48.43	48.52	48.21	47.41	45.20	44.48	44.88	44.17	43.54	45.04	46.80	44.47
11	48.44	48.51	48.20	47.47	45.37	44.47	45.48	44.15	43.86	45.03	46.77	44.48
12	48.55	48.62	48.20	47.54	45.26	44.38	45.65	43.99	44.31	44.96	46.76	44.45
13	48.40	48.50	48.42	47.44	44.94	44.38	45.79	44.14	44.55	44.88	46.63	44.40
14	48.32	48.43	48.52	47.42	44.55	44.26	45.41	44.11	44.64	44.84	46.56	44.38
15	48.44	48.29	48.33	47.66	43.76	43.92	44.47	44.06	44.71	44.92	46.61	44.39
16	48.54	48.33	48.02	47.93	48.26	43.41	44.32	44.04	44.74	45.01	46.68	44.44
17	48.59	48.32	48.21	46.69	49.32	43.16	44.18	44.16	44.81	45.01	46.72	44.53
18	48.60	48.23	48.39	48.00	48.33	42.93	44.06	44.14	44.82	45.01	45.58	44.38
19	48.67	48.30	48.36	48.85	45.76	42.57	43.88	44.15	44.81	44.89	44.87	44.26
20	48.71	48.39	48.33	49.38	44.66	42.40	43.79	44.16	44.90	44.81	45.19	44.19
21	48.77	48.56	48.20	48.96	44.53	42.52	44.00	44.22	44.76	45.07	45.32	44.12
22	48.74	48.57	47.68	49.04	44.43	42.36	44.13	44.28	44.63	46.49	45.40	44.03
23	48.70	48.48	47.04	48.98	44.40	42.31	44.00	44.32	44.62	46.03	45.48	44.01
24	48.73	48.50	46.64	49.02	44.42	37.73	43.98	44.30	44.68	45.71	45.50	43.91
25	48.60	48.46	46.31	48.77	44.35	31.43	44.03	44.25	44.72	45.61	45.45	43.62
26	48.49	48.40	45.99	50.00	44.19	34.34	44.02	44.20	44.75	45.41	45.53	43.48
27	48.23	48.45	46.05	50.21	44.19	41.52	44.02	44.23	44.84	45.19	45.55	43.50
28	48.07	48.37	46.11	49.42	44.47	42.24	43.95	44.46	44.88	45.09	46.72	43.55
29	47.75	47.73	46.00	49.24	44.64	43.83	43.89	44.49	44.88	45.07	46.91	43.59
30	47.61	47.79	45.94	48.63	---	44.77	43.94	44.45	44.85	45.01	46.73	43.64
31	47.49	---	45.93	47.25	---	45.14	---	44.49	---	45.04	46.57	---
Mean	48.49	48.29	47.61	47.83	45.30	42.83	44.63	44.16	44.60	45.14	46.12	44.30
Max	48.96	48.62	48.52	50.21	49.32	45.14	45.79	44.49	44.97	46.49	46.91	46.51
Min	47.49	47.47	45.93	45.93	43.76	31.43	43.79	43.89	43.54	44.81	44.87	43.48

Water Year 2008	
Mean	45.78
High	31.43
Low	50.21

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