

Water-Data Report 2008

**354328078295704 Local number WK-331, NCDENR Raleigh Hydrogeologic Research Station WC-1CH
near Auburn, NC (Bedrock)**

Piedmont and Blue Ridge crystalline-rock aquifers
Felsic Intrusive Igneous Rock

Wake County, NC

LOCATION.--Lat 35°43'29", long 78°29'57" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 3.6 mi north east of Auburn. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 90 ft, diameter 6 in., cased to 21 ft, open hole from 21 ft to 90 ft.

DATUM.--Land-surface datum is 165.48 ft above North American Vertical Datum of 1988. Measuring point: top of pvc casing, 2.40 ft above land-surface datum, January 12, 2005, to present.

PERIOD OF RECORD.--May 2005 to current year.

GAGE.--Water-level recorder collecting data at 30-minute intervals.

REMARKS.--Well is part of Piedmont/Mountains ground-water study. Missing data from October 1, 2007 to January 28, 2008 due to equipment problems.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 12.57 ft below land-surface datum, December 10, 2006; lowest water level recorded, 19.00 ft below land-surface datum, November 19, 20, 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	---	---	---	---	18.71	18.50	17.81	16.75	18.15	18.25	18.77	17.75
2	---	---	---	---	18.42	18.57	17.95	16.82	18.17	18.41	18.79	18.00
3	---	---	---	---	18.47	18.62	18.09	16.72	18.24	18.53	18.81	18.19
4	---	---	---	---	18.53	18.66	18.04	16.72	18.29	18.62	18.83	18.33
5	---	---	---	---	18.59	18.13	17.47	16.74	18.35	18.57	18.85	18.43
6	---	---	---	---	18.63	17.89	17.28	16.77	18.40	18.26	18.85	16.77
7	---	---	---	---	18.68	17.84	17.46	16.79	18.41	17.66	18.85	15.61
8	---	---	---	---	18.73	16.93	17.36	16.80	18.43	17.81	18.86	16.34
9	---	---	---	---	18.76	17.27	17.33	16.71	18.48	17.99	18.86	16.69
10	---	---	---	---	18.80	17.51	17.34	16.89	18.51	17.74	18.87	16.50
11	---	---	---	---	18.83	17.71	17.34	17.10	18.55	17.96	18.84	16.28
12	---	---	---	---	18.84	17.88	17.34	16.82	18.58	18.14	18.87	16.34
13	---	---	---	---	18.62	18.03	17.20	17.06	18.58	18.29	18.88	15.95
14	---	---	---	---	18.24	18.14	17.13	17.21	18.58	18.29	18.91	15.84
15	---	---	---	---	18.30	18.23	17.06	17.31	18.44	17.82	18.89	15.80
16	---	---	---	---	18.38	17.76	17.08	17.32	18.44	18.15	18.78	15.69
17	---	---	---	---	18.46	17.84	17.08	17.26	18.48	18.33	18.80	15.30
18	---	---	---	---	18.38	18.00	17.18	17.38	18.59	18.46	18.83	15.40
19	---	---	---	---	18.35	18.11	17.25	17.21	18.67	18.44	18.85	15.46
20	---	---	---	---	18.46	18.20	17.36	17.34	18.67	18.53	18.90	15.47
21	---	---	---	---	18.54	18.30	17.40	17.27	18.66	18.54	18.82	15.49
22	---	---	---	---	18.56	18.36	17.44	17.40	18.11	18.57	18.89	15.51
23	---	---	---	---	18.53	18.44	17.40	17.49	18.08	18.46	18.93	15.52
24	---	---	---	---	18.58	18.50	17.51	17.58	18.20	18.49	18.95	15.51
25	---	---	---	---	18.63	18.55	17.58	17.65	---	18.59	18.96	15.94
26	---	---	---	---	18.63	18.59	17.63	17.70	18.41	18.65	18.98	15.74
27	---	---	---	---	18.25	18.63	17.68	17.75	18.54	18.70	18.55	15.21
28	---	---	---	---	18.31	18.66	16.15	17.84	18.53	18.74	17.62	15.17
29	---	---	---	18.82	18.41	18.71	15.95	17.87	18.62	18.75	17.69	15.24
30	---	---	---	18.81	---	18.73	16.51	17.99	18.29	18.74	17.97	15.05
31	---	---	---	18.82	---	18.52	---	18.09	---	18.76	17.68	---
Mean	---	---	---	18.82	18.54	18.19	17.31	17.24	18.43	18.36	18.71	16.15
Max	---	---	---	18.82	18.84	18.73	18.09	18.09	18.67	18.76	18.98	18.43
Min	---	---	---	18.81	18.24	16.93	15.95	16.71	18.08	17.66	17.62	15.05

Water Year 2008	
Mean	17.88
High	15.05
Low	18.98

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