

Water-Data Report 2008

354315078300102 Local number WK-333, NCDENR Raleigh Hydrogeologic Research Station WC-2I, near Raleigh, NC (Transition Zone)

Piedmont and Blue Ridge crystalline-rock aquifers
Saprolite

Wake County, NC

LOCATION.--Lat 35°43'16", long 78°30'02" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 42 ft, diameter 4 in., cased to 27 ft, screened interval from 27 ft to 42 ft, sand filter packed from 21 ft to 42 ft.

DATUM.--Land-surface datum is 189.65 ft above North American Vertical Datum of 1988. Measuring point: dcp platform shelf, 2.51 ft above land-surface datum, December 16, 2005, to present.

PERIOD OF RECORD.--May 2005 to current year. Continuous record began December 2005.

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

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.14 ft below land-surface datum, May 9, 2005; lowest water level recorded, 20.56 ft below land-surface datum, September 28-30, 2008.

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Continued

**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	19.85	20.22	20.33	20.36	20.15	20.04	19.67	---	18.58	19.18	19.70	20.34
2	19.86	20.23	20.33	20.34	20.15	20.04	19.66	---	18.59	19.21	19.72	20.36
3	19.88	20.23	20.33	20.33	20.15	20.03	19.64	---	18.60	19.22	19.75	20.37
4	19.89	20.24	20.33	20.31	20.14	20.02	19.62	---	18.60	19.24	19.78	20.40
5	19.91	20.24	20.34	20.30	20.14	20.02	19.59	---	18.62	19.27	19.80	20.42
6	19.91	20.25	20.34	20.29	20.13	20.01	19.56	---	18.64	19.29	19.83	20.42
7	19.92	20.26	20.35	20.28	20.13	20.00	19.51	---	18.66	19.31	19.85	20.44
8	19.94	20.26	20.35	20.27	20.13	19.99	19.47	---	18.67	19.31	19.88	20.45
9	19.95	20.26	20.35	20.26	20.13	19.97	19.43	---	18.69	19.32	19.91	20.45
10	19.97	20.27	20.35	20.26	20.13	19.95	19.40	---	18.71	19.33	19.93	20.47
11	19.99	20.27	20.36	20.25	20.12	19.92	19.37	---	18.74	19.34	19.95	20.47
12	20.01	20.27	20.36	20.24	20.12	19.90	19.34	---	18.77	19.35	19.98	20.47
13	20.03	20.27	20.36	20.24	20.11	19.89	19.32	---	18.79	19.35	20.00	20.48
14	20.05	20.28	20.37	20.23	20.11	19.87	19.30	---	18.80	19.37	20.02	20.49
15	20.06	20.28	20.37	20.22	20.11	19.85	---	---	18.81	19.38	20.04	20.49
16	20.08	20.29	20.37	20.22	20.11	19.85	---	---	18.83	19.40	20.05	20.51
17	20.09	20.29	20.38	20.21	20.10	19.84	---	18.63	18.85	19.42	20.07	20.51
18	20.11	20.29	20.38	20.21	20.10	19.82	---	18.62	18.87	19.43	20.09	20.51
19	20.12	20.30	20.38	20.20	20.10	19.80	---	18.61	18.90	19.44	20.11	20.52
20	20.14	20.30	20.38	20.20	20.09	19.80	---	18.60	18.93	19.46	20.14	20.52
21	20.15	20.30	20.39	20.20	20.10	19.79	---	18.60	18.95	19.48	20.15	20.52
22	20.17	20.30	20.39	20.19	20.08	19.77	---	18.60	18.96	19.50	20.17	20.54
23	20.18	20.31	20.39	20.18	20.08	19.77	---	18.60	18.98	19.52	20.20	20.54
24	20.20	20.31	20.39	20.18	20.07	19.76	---	18.59	---	19.54	20.22	20.54
25	20.21	20.31	20.40	20.18	20.07	19.75	---	18.59	19.05	19.56	20.25	20.55
26	20.21	20.31	20.39	20.17	20.06	19.73	---	18.59	19.06	19.57	20.26	20.55
27	20.21	20.32	20.40	20.17	20.06	19.72	---	18.58	19.09	19.59	20.28	20.55
28	20.22	20.32	20.40	20.16	20.05	19.71	---	18.59	19.11	19.61	20.29	20.55
29	20.22	20.32	20.40	20.16	20.05	19.71	---	18.59	19.13	19.63	20.30	20.56
30	20.22	20.33	20.39	20.16	---	19.70	---	18.58	19.15	19.66	20.32	20.55
31	20.22	---	20.37	20.16	---	19.68	---	18.58	---	19.68	20.32	---
Mean	20.06	20.28	20.37	20.23	20.11	19.86	19.49	18.60	18.83	19.42	20.04	20.48
Max	20.22	20.33	20.40	20.36	20.15	20.04	19.67	18.63	19.15	19.68	20.32	20.56
Min	19.85	20.22	20.33	20.16	20.05	19.68	19.30	18.58	18.58	19.18	19.70	20.34

	Calendar Year 2007	Water Year 2008
Mean	18.46	19.89
High	16.57	18.58
Low	20.40	20.56

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