

Water-Data Report 2008

354315078300103 Local number WK-334, NCDENR Raleigh Hydrogeologic Research Station WC-2D near Raleigh, NC (Granite Bedrock)

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

Wake County, NC

LOCATION.--Lat 35°43'15", 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 460 ft, diameter 6.25 in., cased to 59 ft, open hole from 59 ft to 460 ft, diameter 6 in.

DATUM.--Land-surface datum is 188.19 ft above North American Vertical Datum of 1988. Measuring point: floor of instrument platform, 2.79 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, 14.10 ft below land-surface datum, May 9, 2005; lowest water level recorded, 18.10 ft below land-surface datum, September 24, 2008.

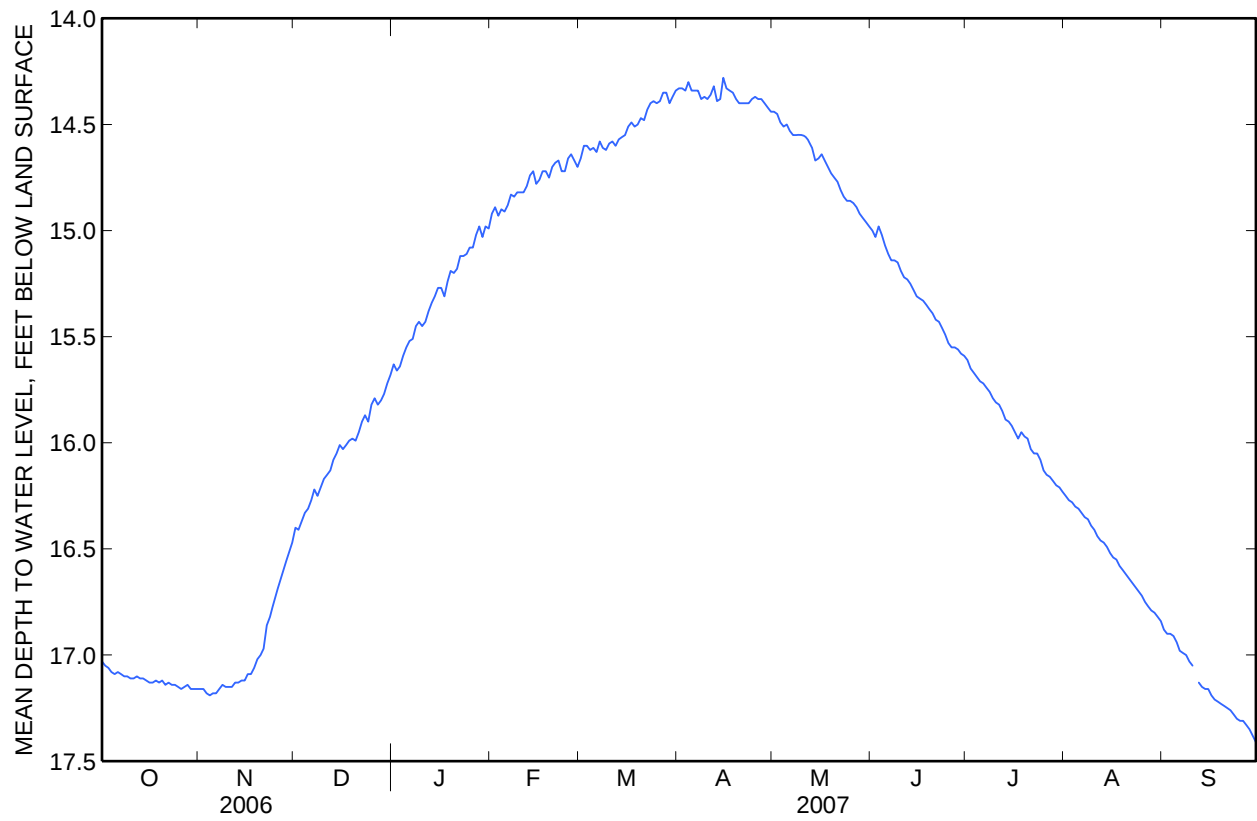
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Continued

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	17.03	17.16	16.40	15.63	14.92	14.66	14.33	14.44	15.00	15.61	16.25	16.88
2	17.05	17.16	16.41	15.66	14.89	14.60	14.33	14.45	15.03	15.65	16.27	16.90
3	17.06	17.18	16.37	15.64	14.93	14.60	14.34	14.49	14.98	15.67	16.28	16.90
4	17.08	17.19	16.33	15.59	14.90	14.62	14.30	14.51	15.02	15.69	16.30	16.91
5	17.09	17.18	16.31	15.55	14.91	14.61	14.34	14.50	15.07	15.71	16.31	16.94
6	17.08	17.18	16.27	15.52	14.88	14.63	14.34	14.53	15.11	15.72	16.33	16.98
7	17.09	17.16	16.22	15.51	14.83	14.58	14.34	14.55	15.14	15.74	16.35	16.99
8	17.10	17.14	16.25	15.45	14.84	14.61	14.38	14.55	15.14	15.76	16.36	17.00
9	17.10	17.15	16.21	15.43	14.82	14.62	14.37	14.55	15.15	15.79	16.39	17.03
10	17.11	17.15	16.17	15.45	14.82	14.59	14.38	14.55	15.19	15.81	16.41	17.05
11	17.11	17.15	16.15	15.43	14.82	14.58	14.36	14.56	15.22	15.82	16.44	---
12	17.10	17.13	16.13	15.38	14.79	14.60	14.32	14.58	15.23	15.85	16.46	17.13
13	17.11	17.13	16.08	15.34	14.74	14.57	14.39	14.61	15.25	15.89	16.47	17.15
14	17.11	17.12	16.05	15.31	14.72	14.56	14.38	14.67	15.28	15.90	16.49	17.16
15	17.12	17.12	16.01	15.27	14.78	14.55	14.28	14.66	15.31	15.92	16.52	17.16
16	17.13	17.09	16.03	15.27	14.76	14.51	14.33	14.64	15.32	15.95	16.54	17.19
17	17.13	17.09	16.01	15.31	14.72	14.49	14.34	14.67	15.33	15.98	16.55	17.21
18	17.12	17.06	15.99	15.24	14.72	14.51	14.35	14.70	15.35	15.95	16.58	17.22
19	17.13	17.02	15.98	15.19	14.75	14.50	14.38	14.73	15.37	15.97	16.60	17.23
20	17.12	17.00	15.99	15.20	14.70	14.47	14.40	14.75	15.39	15.98	16.62	17.24
21	17.14	16.97	15.95	15.18	14.68	14.48	14.40	14.77	15.42	16.03	16.64	17.25
22	17.13	16.86	15.90	15.12	14.67	14.43	14.40	14.81	15.43	16.05	16.66	17.26
23	17.14	16.82	15.87	15.12	14.72	14.40	14.40	14.84	15.46	16.05	16.68	17.28
24	17.14	16.76	15.90	15.11	14.72	14.39	14.38	14.86	15.49	16.08	16.70	17.30
25	17.15	16.71	15.82	15.08	14.66	14.40	14.37	14.86	15.53	16.13	16.72	17.31
26	17.16	16.66	15.79	15.08	14.64	14.39	14.38	14.87	15.55	16.15	16.75	17.31
27	17.15	16.61	15.82	15.02	14.67	14.35	14.38	14.89	15.55	16.16	16.77	17.33
28	17.14	16.56	15.80	14.98	14.70	14.35	14.40	14.92	15.56	16.18	16.79	17.35
29	17.16	16.52	15.77	15.03	---	14.40	14.42	14.94	15.58	16.20	16.80	17.38
30	17.16	16.47	15.72	14.98	---	14.37	14.44	14.96	15.59	16.21	16.82	17.41
31	17.16	---	15.68	14.99	---	14.34	---	14.98	---	16.23	16.84	---
Mean	17.12	16.98	16.04	15.29	14.78	14.51	14.37	14.69	15.30	15.93	16.54	17.15
Max	17.16	17.19	16.41	15.66	14.93	14.66	14.44	14.98	15.59	16.23	16.84	17.41
Min	17.03	16.47	15.68	14.98	14.64	14.34	14.28	14.44	14.98	15.61	16.25	16.88

	Calendar Year 2006	Water Year 2007
Mean	16.16	15.73
High	15.48	14.28
Low	17.19	17.41

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Continued



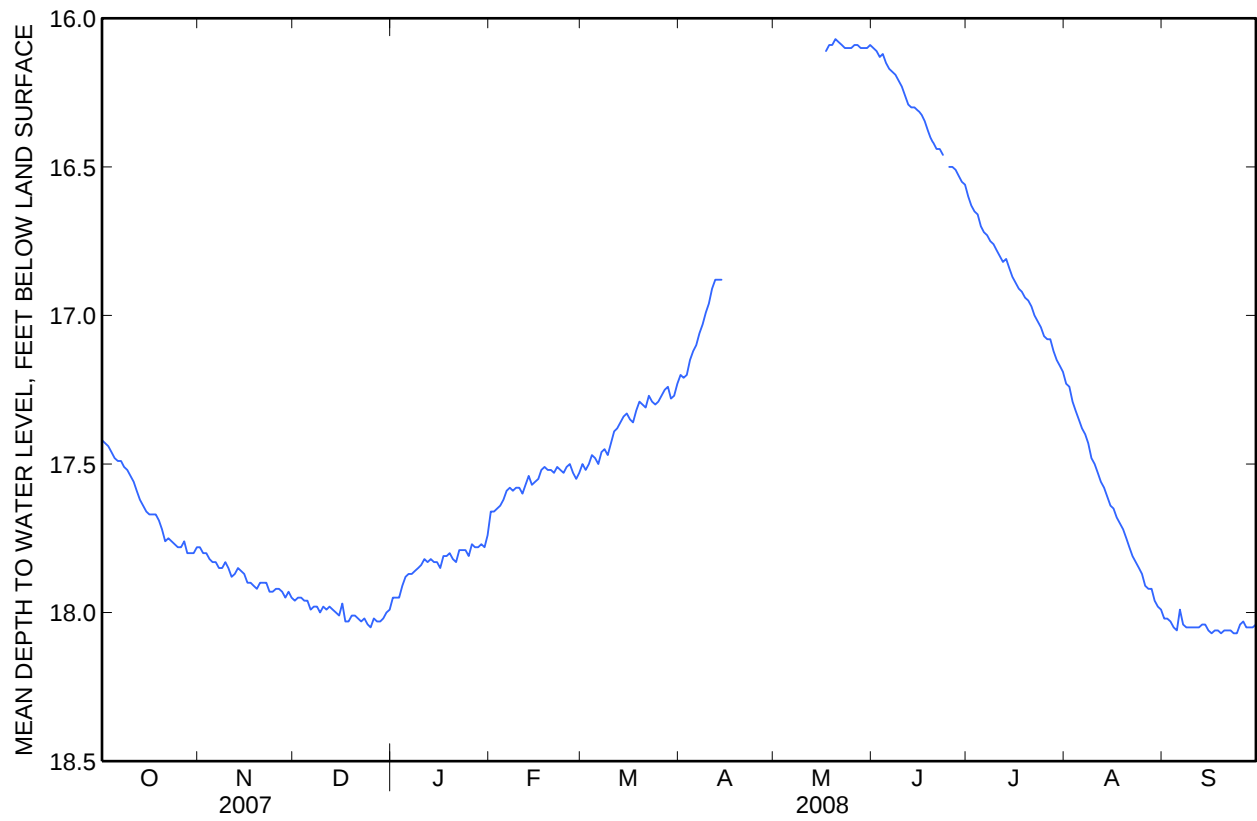
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Continued

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	17.42	17.78	17.96	17.95	17.66	17.50	17.20	---	16.10	16.60	17.23	18.02
2	17.43	17.80	17.95	17.95	17.66	17.52	17.21	---	16.11	16.63	17.24	18.02
3	17.44	17.80	17.95	17.95	17.65	17.50	17.20	---	16.13	16.65	17.29	18.03
4	17.46	17.82	17.96	17.91	17.64	17.47	17.15	---	16.12	16.66	17.32	18.05
5	17.48	17.83	17.96	17.88	17.62	17.48	17.12	---	16.15	16.70	17.35	18.06
6	17.49	17.83	17.99	17.87	17.59	17.50	17.10	---	16.17	16.72	17.38	17.99
7	17.49	17.85	17.98	17.87	17.58	17.46	17.06	---	16.18	16.73	17.40	18.04
8	17.51	17.85	17.98	17.86	17.59	17.45	17.03	---	16.19	16.75	17.43	18.05
9	17.52	17.83	18.00	17.85	17.58	17.47	16.99	---	16.21	16.76	17.48	18.05
10	17.54	17.85	17.98	17.84	17.58	17.43	16.96	---	16.23	16.78	17.50	18.05
11	17.56	17.88	17.99	17.82	17.60	17.39	16.91	---	16.26	16.80	17.53	18.05
12	17.59	17.87	17.98	17.83	17.57	17.38	16.88	---	16.29	16.82	17.56	18.05
13	17.62	17.85	17.99	17.82	17.54	17.36	16.88	---	16.30	16.81	17.58	18.04
14	17.64	17.86	18.00	17.83	17.57	17.34	16.88	---	16.30	16.84	17.61	18.04
15	17.66	17.87	18.01	17.83	17.56	17.33	---	---	16.31	16.87	17.64	18.06
16	17.67	17.90	17.97	17.85	17.55	17.35	---	---	16.32	16.89	17.65	18.07
17	17.67	17.90	18.03	17.81	17.52	17.36	---	16.11	16.34	16.91	17.68	18.06
18	17.67	17.91	18.03	17.81	17.51	17.32	---	16.09	16.37	16.92	17.70	18.06
19	17.69	17.92	18.01	17.80	17.52	17.29	---	16.09	16.40	16.94	17.72	18.07
20	17.72	17.90	18.01	17.82	17.52	17.30	---	16.07	16.42	16.95	17.75	18.06
21	17.76	17.90	18.02	17.83	17.53	17.31	---	16.08	16.44	16.97	17.78	18.06
22	17.75	17.90	18.03	17.79	17.51	17.27	---	16.09	16.44	17.00	17.81	18.06
23	17.76	17.93	18.02	17.79	17.52	17.29	---	16.10	16.46	17.02	17.83	18.07
24	17.77	17.93	18.04	17.79	17.53	17.30	---	16.10	---	17.04	17.85	18.07
25	17.78	17.92	18.05	17.81	17.51	17.29	---	16.10	16.50	17.07	17.87	18.04
26	17.78	17.92	18.02	17.77	17.50	17.27	---	16.09	16.50	17.08	17.91	18.03
27	17.76	17.93	18.03	17.78	17.53	17.25	---	16.09	16.51	17.08	17.92	18.05
28	17.80	17.95	18.03	17.78	17.55	17.24	---	16.10	16.53	17.12	17.92	18.05
29	17.80	17.93	18.02	17.77	17.53	17.28	---	16.10	16.55	17.15	17.96	18.05
30	17.80	17.95	18.00	17.78	---	17.27	---	16.10	16.56	17.17	17.98	18.04
31	17.78	---	17.99	17.74	---	17.23	---	16.09	---	17.19	17.99	---
Mean	17.64	17.88	18.00	17.83	17.56	17.36	17.04	16.09	16.32	16.89	17.64	18.05
Max	17.80	17.95	18.05	17.95	17.66	17.52	17.21	16.11	16.56	17.19	17.99	18.07
Min	17.42	17.78	17.95	17.74	17.50	17.23	16.88	16.07	16.10	16.60	17.23	17.99

	Calendar Year 2007	Water Year 2008
Mean	16.01	17.44
High	14.28	16.07
Low	18.05	18.07

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