

Water-Data Report 2008

354404078403101 Local number WK-284, NCDENR Lake Wheeler Road Research Station MW-3S at Raleigh, NC (Regolith)

Piedmont and Blue Ridge crystalline-rock aquifers
Saprolite

Wake County, NC

LOCATION.--Lat 35°44'04", long 78°40'31" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on North Carolina State University Research Farm at Raleigh. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 35 ft, diameter 4 in., cased to 20 ft, screened interval from 20 ft to 35 ft, sand filter packed from 17 ft to 35 ft.

DATUM.--Land-surface datum is 375.02 ft above National Geodetic Vertical Datum of 1929. Measuring point: bottom of instrument shelf, 1.93 ft above land-surface datum, September 14, 2007, to present.

PERIOD OF RECORD.--May 2001 to current year. Continuous record began September 2007.

GAGE.--Water-level recorder collecting data at 60-min intervals. Satellite telemetry at site.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.54 ft below land-surface datum, November 13, 2003; lowest water level recorded, 27.88 ft below land-surface datum, March 8, 2008.

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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	26.55	26.86	27.15	27.38	27.57	27.69	27.57	---	26.96	26.86	27.06	27.48
2	26.54	26.87	27.15	27.44	27.59	27.70	27.59	---	26.96	26.86	27.07	27.49
3	26.55	26.87	27.16	27.44	27.59	27.69	27.57	---	26.95	26.86	27.09	27.50
4	26.56	26.89	27.17	27.42	27.59	27.68	27.55	---	26.94	26.86	27.10	27.51
5	26.57	26.90	27.18	27.42	27.59	27.72	27.53	---	26.94	26.87	27.11	27.52
6	26.58	26.91	27.21	27.43	27.59	27.71	27.55	---	26.94	26.87	27.12	27.47
7	26.59	26.92	27.20	27.43	27.61	27.67	27.53	---	26.93	26.88	27.13	27.54
8	26.60	26.93	27.21	27.43	27.62	27.68	---	---	26.91	26.88	27.15	27.54
9	26.60	26.93	27.22	27.44	27.61	27.75	---	---	26.91	26.88	27.16	27.54
10	26.61	26.95	27.23	27.44	27.63	27.69	---	---	26.90	26.89	27.18	27.55
11	26.63	26.96	27.24	27.45	27.64	27.67	---	---	26.90	26.89	27.19	27.55
12	26.65	26.96	27.24	27.46	27.62	27.68	---	---	26.90	26.90	27.20	27.55
13	26.66	26.97	27.25	27.46	27.62	27.68	---	---	26.89	26.89	27.21	27.55
14	26.68	26.98	27.27	27.47	27.66	27.67	---	---	26.88	26.91	27.23	27.56
15	26.69	27.00	27.26	27.48	27.64	27.67	---	---	26.88	26.92	27.25	27.57
16	26.70	27.01	27.27	27.49	27.65	27.70	---	---	26.88	26.92	27.26	27.58
17	26.72	27.02	27.30	27.48	27.64	27.69	---	27.08	26.88	26.93	27.28	27.58
18	26.72	27.03	27.30	27.50	27.65	27.66	---	27.07	26.88	26.93	27.29	27.59
19	26.73	27.04	27.31	27.50	27.67	27.64	---	27.07	26.87	26.94	27.30	27.59
20	26.75	27.04	27.32	27.54	27.66	27.66	---	27.05	26.88	26.94	27.32	27.59
21	26.77	27.05	27.33	27.52	27.67	27.65	---	27.05	26.87	26.95	27.34	27.60
22	26.78	27.06	27.34	27.50	27.66	27.63	---	27.04	26.87	26.96	27.35	27.61
23	26.78	27.08	27.34	27.52	27.67	27.64	---	27.04	26.86	26.97	27.36	27.61
24	26.79	27.09	27.36	27.53	27.68	27.64	---	27.02	26.86	26.98	27.37	27.61
25	26.81	27.09	27.37	27.54	27.67	27.63	---	27.01	26.86	26.99	27.39	27.61
26	26.81	27.09	27.37	27.53	27.66	27.62	---	27.00	26.85	27.00	27.40	27.62
27	26.80	27.12	27.39	27.54	27.71	27.61	---	27.00	26.85	27.00	27.41	27.62
28	26.85	27.12	27.39	27.55	27.71	27.61	---	27.00	26.86	27.02	27.42	27.63
29	26.84	27.13	27.40	27.54	27.69	27.62	---	26.98	26.85	27.03	27.44	27.64
30	26.85	27.14	27.34	27.57	---	27.61	---	26.97	26.85	27.04	27.45	27.63
31	26.85	---	27.42	27.58	---	27.59	---	26.96	---	27.04	27.47	---
Mean	26.70	27.00	27.28	27.48	27.64	27.66	---	---	26.89	26.93	27.26	27.57
Max	26.85	27.14	27.42	27.58	27.71	27.75	---	---	26.96	27.04	27.47	27.64
Min	26.54	26.86	27.15	27.38	27.57	27.59	---	---	26.85	26.86	27.06	27.47

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