



Water-Data Report 2007

354328078295701 Local number WK-328, Raleigh Hydrogeologic Research Station WC-1S (Regolith)

Piedmont and Blue Ridge crystalline-rock aquifers

Saprolite

Wake County, NC

LOCATION.--Lat 35°43'29", long 78°29'58" 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 28 ft, diameter 4 in., cased to 13 ft, screened interval from 13 to 28 ft, sand filter packed from 9 to 33 ft.

DATUM.--Land-surface datum is 171.24 ft above North American Vertical Datum of 1988. Measuring point: top of pvc casing, 2.50 ft above land-surface datum, Mar. 30, 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. Ground-water levels affected by nearby Neuse River.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 19.20 ft below land-surface datum, December 11, 2006 and January 16, 2007; lowest water level recorded, 24.16 ft below land-surface datum, November 20, 21, 2005.

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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	23.21	23.58	20.64	20.43	20.24	21.06	20.36	---	---	---	23.02	23.54
2	23.26	23.63	20.47	20.45	20.29	20.93	20.44	---	---	---	23.06	23.56
3	23.29	23.66	20.26	20.40	20.44	20.78	20.53	---	---	---	23.08	23.57
4	23.32	23.69	20.08	20.33	20.50	20.73	20.57	---	---	---	23.10	23.59
5	23.35	23.71	19.90	20.28	20.59	20.67	20.69	---	---	---	23.12	23.61
6	23.37	23.72	19.72	20.20	20.63	20.61	20.75	---	---	---	23.13	23.63
7	23.27	23.68	19.56	20.15	20.67	20.46	20.85	---	---	---	23.15	23.64
8	23.27	23.10	19.50	20.08	20.75	20.41	20.93	---	---	---	23.17	23.65
9	23.25	23.03	19.38	20.05	20.80	20.40	21.00	---	---	---	23.18	23.65
10	23.27	23.05	19.26	20.02	20.86	20.43	21.06	---	---	---	23.18	23.67
11	23.31	23.07	19.23	19.88	20.92	20.50	21.10	---	---	---	23.20	23.68
12	23.36	22.95	19.44	19.70	20.94	20.57	21.11	---	---	---	23.22	23.71
13	23.40	22.70	19.69	19.54	20.95	20.61	21.09	---	---	---	23.23	23.72
14	23.44	22.53	19.92	19.41	20.96	20.67	21.01	---	---	---	23.25	23.73
15	23.49	22.31	20.12	19.28	21.02	20.76	20.86	---	---	---	23.27	23.58
16	23.52	22.14	20.36	19.25	20.98	20.75	20.68	---	---	---	23.29	23.59
17	23.53	---	20.53	19.40	20.90	20.38	20.60	---	---	---	23.30	23.66
18	23.42	21.84	20.66	19.46	20.89	20.31	20.52	---	---	---	23.33	23.70
19	23.37	21.70	20.80	19.55	20.92	20.25	20.37	---	---	---	23.34	23.73
20	23.40	21.58	20.93	19.76	20.84	20.13	20.21	---	---	---	23.35	23.74
21	23.44	21.45	21.01	19.92	20.84	20.03	20.06	---	---	---	23.37	23.75
22	23.47	21.21	21.07	19.90	20.83	19.88	19.91	---	---	---	23.39	23.76
23	23.51	20.92	21.02	19.97	20.95	19.79	19.78	---	---	---	23.40	23.79
24	23.55	20.95	21.09	20.01	21.06	19.76	19.68	---	---	---	23.40	23.82
25	23.58	21.03	21.05	20.02	21.07	19.76	19.64	---	---	---	23.41	23.83
26	23.61	21.12	20.70	20.09	21.09	19.76	19.66	---	---	22.98	23.44	23.85
27	23.62	21.21	20.74	20.03	21.11	19.74	19.80	---	---	23.01	23.44	23.86
28	23.51	21.27	20.80	20.00	21.12	19.85	19.99	---	---	22.99	23.47	23.88
29	23.47	21.16	20.75	20.13	---	20.06	20.17	---	---	22.97	23.49	23.91
30	23.50	20.91	20.62	20.09	---	20.16	20.32	---	---	22.95	23.49	23.92
31	23.54	---	20.53	20.19	---	20.25	---	---	---	22.97	23.51	---
Mean	23.42	22.31	20.32	19.93	20.83	20.34	20.46	---	---	22.98	23.28	23.71
Max	23.62	23.72	21.09	20.45	21.12	21.06	21.11	---	---	23.01	23.51	23.92
Min	23.21	20.91	19.23	19.25	20.24	19.74	19.64	---	---	22.95	23.02	23.54

Water Year 2007	
Mean	21.65
High	19.23
Low	23.92

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