



Water-Data Report 2007

351117083545001 Local number CE-028, NC-191

Piedmont and Blue Ridge crystalline-rock aquifers
Saprolite(Unknown Age)
Cherokee County, NC

LOCATION.--Lat 35°11'17", long 83°54'50" referenced to North American Datum of 1983, Cherokee County, NC, Hydrologic Unit 06020002, 0.6 mi north of Marble, 100 ft west of Secondary Road 1377. Owner: Coats American Company.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 108.5 ft, diameter 4 in., cased to 53 ft, screened interval from 53 to 83 ft, sand filter pack from 40 to 83 ft, backfilled with saprolite from 83 to 108.5 ft.

DATUM.--Land-surface datum is 1,720 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Measuring point: top of shelter floor, 3.73 ft above land-surface datum, April 18, 2002 to present; top of shelter floor, 0.45 ft above land-surface datum, August 16, 1995 to April 18, 2002; top of instrument shelf, 1.15 ft above land-surface datum, October 1989 to August 16, 1995.

PERIOD OF RECORD.--September 1985 to current year. Continuous record began October 1989.

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

REMARKS.--Well is part of terrane-effects network.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 19.26 ft below land-surface datum, March 29, 1994; lowest water level recorded, 40.59 ft below land-surface datum, September 30, 2007.

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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	37.35	36.92	35.16	34.77	32.33	33.05	32.86	34.49	36.34	37.76	38.91	39.77
2	37.68	36.89	35.09	35.10	32.31	32.95	33.14	34.55	36.27	37.79	38.95	39.77
3	37.58	36.89	35.00	34.79	32.35	32.77	33.12	34.59	36.27	37.81	38.96	39.77
4	37.61	36.78	35.30	34.63	32.31	32.68	33.14	34.53	36.61	37.84	38.93	39.77
5	37.65	36.67	35.15	34.52	32.53	33.05	33.19	34.47	36.60	37.86	38.90	40.10
6	37.70	36.98	35.10	34.44	32.43	32.86	33.23	34.52	36.66	37.90	39.02	39.97
7	37.64	36.81	35.12	34.41	32.38	32.76	33.21	34.88	36.69	37.93	39.05	39.92
8	37.60	36.77	35.15	34.46	32.41	32.71	33.19	34.78	36.76	37.99	39.12	39.92
9	37.89	36.76	35.06	34.00	32.42	32.71	33.18	34.83	36.71	38.46	39.18	39.96
10	37.82	36.76	35.01	33.79	32.41	32.62	33.20	34.91	36.70	38.32	39.22	40.16
11	37.83	36.66	35.34	33.60	32.38	32.56	33.23	34.89	36.72	38.28	39.17	40.13
12	37.85	36.58	35.18	33.48	32.61	32.80	33.47	34.89	36.75	38.23	39.16	40.18
13	37.89	36.75	35.20	33.29	32.50	32.73	33.51	34.99	36.79	38.25	39.50	40.21
14	37.84	36.67	35.20	33.13	32.58	32.75	33.38	35.42	37.04	38.17	39.39	40.20
15	37.81	36.64	35.34	33.28	32.63	32.73	33.31	35.31	37.99	38.16	39.42	40.09
16	38.13	36.40	35.31	33.16	32.63	32.68	33.77	35.36	37.48	38.52	39.45	40.04
17	37.93	36.14	35.16	33.12	32.56	32.63	33.70	35.46	37.29	38.41	39.49	40.23
18	37.75	35.86	35.29	33.00	32.65	32.56	33.72	35.60	37.35	38.46	39.45	40.16
19	37.57	35.64	35.30	32.92	32.90	32.89	33.80	35.50	37.41	38.51	39.42	40.17
20	37.47	35.65	35.27	32.90	32.78	32.79	33.91	35.48	37.45	38.45	39.51	40.20
21	37.33	35.51	35.23	32.76	32.79	32.79	33.97	35.51	37.47	38.42	39.60	40.23
22	37.21	35.41	35.22	32.88	32.87	32.79	33.93	35.56	37.56	38.44	39.65	40.20
23	37.47	35.27	35.17	32.70	32.96	32.79	34.32	35.77	37.63	38.78	39.68	40.20
24	37.34	35.16	35.10	32.62	33.00	32.72	34.18	35.95	37.58	38.67	39.73	40.41
25	37.33	35.10	34.99	32.53	32.84	32.66	34.17	35.86	37.60	38.69	39.66	40.37
26	37.39	35.03	34.97	32.48	33.14	32.99	34.20	35.83	37.73	38.73	39.65	40.39
27	37.31	35.24	35.00	32.35	33.08	32.91	34.25	35.86	37.80	38.67	39.80	40.42
28	37.13	35.12	35.00	32.24	33.14	32.96	34.23	35.93	37.82	38.62	39.80	40.46
29	36.93	35.12	34.99	32.58	---	32.99	34.23	36.29	37.77	38.64	39.85	40.41
30	37.15	35.16	34.96	32.41	---	33.02	34.56	36.23	37.74	38.99	39.87	40.41
31	36.97	---	34.89	32.42	---	32.92	---	36.26	---	38.89	39.82	---
Mean	37.55	36.11	35.14	33.38	32.64	32.80	33.64	35.31	37.15	38.34	39.40	40.14
Max	38.13	36.98	35.34	35.10	33.14	33.05	34.56	36.29	37.99	38.99	39.87	40.46
Min	36.93	35.03	34.89	32.24	32.31	32.56	32.86	34.47	36.27	37.76	38.90	39.77

Water Year 2007

Mean	35.99
High	32.24
Low	40.46

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