

## GROUND-WATER LEVELS

## HOKE COUNTY--Continued

345933079144406. County number, HO-047; DENR Raeford Research Station well U46e6.

LOCATION.--Lat 34°59'34", long 79°14'42", Hydrologic Unit 03030004, northwest of Raeford, 0.2 mi north of Secondary Road 1203 on Secondary Road 1311 at North Carolina Department of Transportation Maintenance Yard. Owner: DENR (North Carolina Department of Environment and Natural Resources).

AQUIFER.--Black Creek aquifer of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation well, depth 111 ft, diameter 4 in. to 62 ft, diameter 2.5 in. from 62 to 111 ft, screened intervals from 62 to 67 ft and 96 to 101 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals.

DATUM.--Land-surface datum is 274.37 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of flange attached to floor of instrument shelter, 1.7 ft above land-surface datum (since December 1995).

REMARKS.--Well is part of southern Coastal Plain ground-water level monitoring study. Water levels affected by pumping of nearby municipal wells. Well redeveloped by injecting air into well on July 31, 2001.

PERIOD OF RECORD.--July 1981 to current year. Water levels measured periodically since July 1981. Continuous record January 1994 to November 1994, December 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 33.31 ft below land-surface datum, Mar. 27, 2000; lowest water level recorded, 43.85 ft below land-surface datum, Jan. 20, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.09	39.79	40.17	39.60	39.91	40.35	39.29	39.62	---	42.12	41.95	41.51
2	39.22	39.84	40.07	39.57	39.93	40.15	39.33	39.70	---	42.08	41.91	41.41
3	39.30	39.85	39.97	39.65	39.86	39.79	39.30	39.95	---	42.10	41.98	41.38
4	39.52	39.67	40.11	39.74	39.72	39.94	39.38	39.89	---	41.88	41.75	41.33
5	39.58	39.57	39.98	39.84	39.83	39.87	39.34	39.61	---	41.64	41.68	41.48
6	39.55	39.72	40.19	39.90	39.88	40.02	39.39	39.56	41.69	41.56	41.81	41.69
7	39.29	39.78	40.23	39.83	39.66	40.07	39.36	39.57	41.71	41.43	42.27	41.78
8	39.33	39.80	40.14	40.00	39.74	39.86	38.80	39.96	41.56	41.03	42.31	41.68
9	39.64	39.84	40.05	40.22	39.69	39.93	39.13	40.08	41.32	41.43	42.34	41.53
10	39.65	39.91	39.98	40.00	39.69	39.88	39.35	40.17	41.18	41.69	42.32	41.57
11	39.66	39.89	39.93	40.17	39.66	39.78	39.55	40.34	41.19	41.75	42.21	41.59
12	39.70	39.87	39.95	40.24	39.66	39.53	39.48	40.32	41.74	41.71	42.11	41.80
13	39.60	39.88	40.17	39.92	39.71	39.55	39.55	39.97	41.99	41.72	42.21	41.96
14	39.59	39.93	40.20	40.01	39.82	39.57	39.42	40.06	42.12	41.64	42.28	41.89
15	39.52	39.86	40.30	39.79	39.82	39.65	39.28	40.24	41.98	41.53	42.27	41.58
16	39.66	39.96	40.25	40.19	39.90	39.74	39.38	40.19	41.65	41.65	42.23	41.45
17	39.83	40.06	40.07	40.21	39.89	39.83	39.42	40.31	41.54	41.87	42.14	41.63
18	39.97	40.03	39.94	40.15	39.78	39.65	39.48	40.11	41.58	42.00	42.02	41.71
19	39.85	39.87	39.95	40.11	39.65	39.65	39.52	40.05	41.72	42.11	41.62	41.76
20	39.68	39.90	40.33	40.08	39.69	39.64	39.45	40.00	41.98	42.15	42.00	41.70
21	39.64	40.05	40.34	39.93	39.69	39.62	39.47	40.11	42.03	41.96	42.17	41.62
22	39.58	40.20	40.43	40.04	39.60	39.63	39.35	40.23	41.78	42.01	42.24	41.47
23	39.62	40.12	40.29	39.97	39.75	39.84	39.43	40.28	41.65	42.20	42.28	41.53
24	39.59	39.87	39.91	39.80	39.78	39.76	39.37	40.37	41.56	42.19	42.29	41.64
25	39.77	39.66	39.88	39.89	39.66	39.58	39.61	40.53	41.65	42.20	42.09	41.73
26	39.86	39.52	39.82	39.93	---	39.54	39.65	40.49	41.80	42.10	41.94	41.86
27	39.80	39.63	39.75	39.69	39.81	39.30	39.69	40.48	41.75	42.04	41.79	41.65
28	39.78	---	39.60	39.52	40.20	39.73	39.49	40.54	41.89	41.80	41.86	41.63
29	39.75	40.03	39.56	39.56	---	39.62	39.41	---	41.96	41.73	41.87	41.53
30	39.74	40.05	39.60	39.74	---	39.73	39.48	---	42.15	41.91	41.88	---
31	39.73	---	39.61	39.78	---	39.54	---	---	---	42.08	41.72	---

WTR YR 2002 MEAN 40.46 HIGH 38.80 LOW 42.34

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