



Water-Data Report 2007

371208076341104 Local number 58F 53 SOW 171D.

Northern Atlantic Coastal Plain aquifer system

Eocene Series

Newport News City, VA

LOCATION.--Lat 37°12'08", long 76°34'11" referenced to North American Datum of 1927, Newport News City, VA, Hydrologic Unit 02080206, 0.4 mi southeast of the intersection of State Highways 143 and 238 and 150 ft north of State Highway 143 in Newport News. Owner: Virginia Department of Environmental Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 343 ft. Upper casing diameter 4.00 in, top of first opening 333 ft, bottom of last opening 343 ft. Drilled observation water well, screened 333 to 343 ft.

DATUM.--Land-surface datum is 55 ft above National Geodetic Vertical Datum of 1929. Measuring point: TOP OF CASING, 2.90 ft above land-surface datum, April 14, 1993, to present.

PERIOD OF RECORD.--July 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

GAGE.--Electronic data logger and pressure transducer, 15-minute record interval. Oct. 1, 1999 to March 23, 2007, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 1, 1999, digital recorder, 60-minute punch.

REMARKS.--Well is located in Chickahominy-Piney Point aquifer of Eocene-Oligocene age. Records provided by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown and occasional pumpage for water-quality sampling. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 55.18 ft below land-surface datum, Feb. 2, 1985; lowest recorded, 68.99 ft below land-surface datum, Sept. 30, 2007.

EXTREMES FOR CURRENT YEAR (RECORDED).--Highest water level, 67.73 ft below land surface datum, May 6, 10; lowest water level, 68.99 ft below land surface datum, Sept. 30.

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MAXIMUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	68.06	67.88	68.03	68.62	68.56	68.69
2	---	---	---	---	---	---	68.05	67.84	68.04	68.66	68.58	68.71
3	---	---	---	---	---	---	68.09	67.83	68.02	68.68	68.59	68.71
4	---	---	---	---	---	---	68.06	67.82	67.92	68.67	68.59	68.70
5	---	---	---	---	---	---	68.07	67.80	67.95	68.67	68.61	68.74
6	---	---	---	---	---	---	68.08	67.80	68.01	68.67	68.54	68.78
7	---	---	---	---	---	---	68.07	67.79	68.02	68.69	68.51	68.79
8	---	---	---	---	---	---	68.09	67.78	68.03	68.69	68.48	68.78
9	---	---	---	---	---	---	68.10	67.76	68.03	68.71	68.52	68.77
10	---	---	---	---	---	---	68.12	67.75	68.07	68.73	68.52	68.77
11	---	---	---	---	---	---	68.12	67.76	68.09	68.71	68.52	68.76
12	---	---	---	---	---	---	68.06	67.78	68.09	68.70	68.52	68.82
13	---	---	---	---	---	---	68.11	67.84	68.12	68.73	68.51	68.84
14	---	---	---	---	---	---	68.12	67.87	68.18	68.73	68.52	68.84
15	---	---	---	---	---	---	68.06	67.85	68.25	68.73	68.56	68.83
16	---	---	---	---	---	---	67.84	67.80	---	68.75	68.59	68.86
17	---	---	---	---	---	---	67.89	67.80	---	68.71	68.59	68.87
18	---	---	---	---	---	---	67.92	67.82	68.41	68.70	68.65	68.88
19	---	---	---	---	---	---	67.95	67.82	68.43	68.69	68.66	68.87
20	---	---	---	---	---	---	67.99	67.82	68.47	68.70	68.52	68.87
21	---	---	---	---	---	---	68.01	67.89	68.49	68.74	68.53	68.87
22	---	---	---	---	---	---	68.05	67.94	68.51	68.75	68.54	68.88
23	---	---	---	---	---	---	68.06	67.97	68.54	68.76	68.56	68.90
24	---	---	---	---	---	68.01	68.02	67.98	68.59	68.78	68.56	68.92
25	---	---	---	---	---	68.11	67.99	67.96	68.62	68.80	68.56	68.91
26	---	---	---	---	---	68.11	67.99	67.96	68.64	68.81	68.58	68.90
27	---	---	---	---	---	68.07	---	67.98	68.64	68.78	68.59	68.90
28	---	---	---	---	---	68.10	67.85	68.01	68.63	68.77	68.61	68.93
29	---	---	---	---	---	68.11	67.86	68.01	68.64	68.64	68.61	68.98
30	---	---	---	---	---	68.10	67.87	68.02	68.60	68.52	68.61	68.99
31	---	---	---	---	---	68.06	---	68.03	---	68.52	68.63	---

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

[Measurement method: S, steel tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Oct 3	68.21	S	--	Mar 23	67.97	S	--
27	68.03	S	--	May 17	67.74	S	--
Feb 26	67.74	S	--	Jul 20	68.63	S	--

Water year 2007 highest: 67.74 Feb 26, 2007 May 17, 2007; lowest: 68.63 Jul 20, 2007

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