

GROUND-WATER-LEVEL RECORDS

GROUND-WATER LEVELS

ACCOMACK COUNTY

372922076470101. Local number, 64H 5 SOW 102C.

LOCATION.--Lat 37°29'21", long 75°47'04", NAD83, Hydrologic Unit 02080110, at entrance to Virginia Landing, 0.2 mi south from end of State Highway 605, 2.0 mi southeast of Willis Wharf, and 5.2 mi southwest of intersection of State Highways 605 and 182. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 306 ft, screened 296 to 306 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 13, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Nov. 13, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum prior to Mar. 1, 1988; 1.1 ft thereafter.

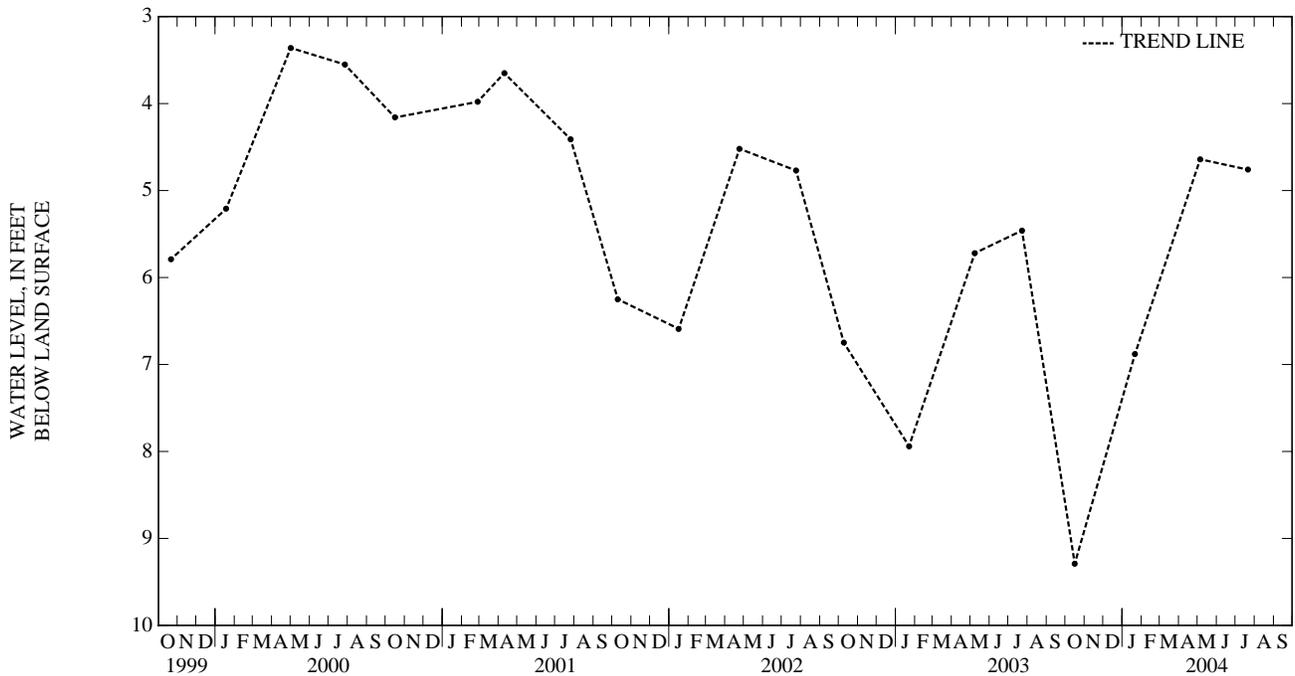
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.70 ft below land-surface datum, June 6, 1984; lowest measured, 9.29 ft below land-surface datum, Oct. 16, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	9.29	JAN 21	6.88	MAY 05	4.64	JUL 21	4.76
WATER YEAR 2004 HIGHEST		4.64	MAY 05, 2004 LOWEST		9.29	OCT 16, 2003	



ACCOMACK COUNTY—Continued

372905075474002. Local number, 64H 6 SOW 102A.

LOCATION.--Lat 37°29'21", long 75°47'04", NAD83, Hydrologic Unit 02080110, at entrance to Virginia Landing, 0.2 mi south from end of State Highway 605, 2.0 mi southeast of Willis Wharf, and 5.2 mi southwest of intersection of State Highways 605 and 182. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 154 ft, screened 144 to 154 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 13, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Nov. 13, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

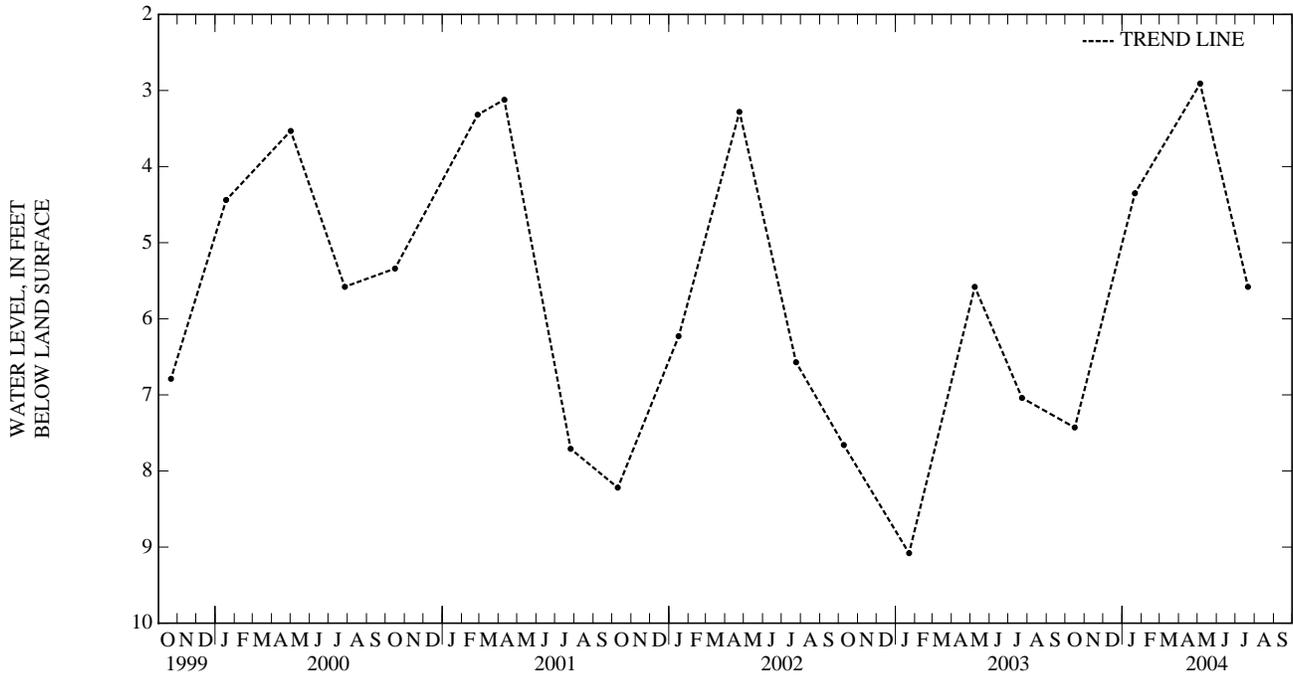
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.33 ft below land-surface datum, Oct. 30, 1984; lowest measured, 9.63 ft below land-surface datum, Sept. 1, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	7.43	JAN 21	4.35	MAY 05	2.91	JUL 21	5.58
WATER YEAR 2004 HIGHEST		2.91	MAY 05, 2004 LOWEST		7.43	OCT 16, 2003	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

372905075474001. Local number, 64H 7 SOW 102B.

LOCATION.--Lat 37°29'21", long 75°47'04", NAD83, Hydrologic Unit 02080110, at entrance to Virginia Landing, 0.2 mi south from end of State Highway 605, 2.0 mi southeast of Willis Wharf, and 5.2 mi southwest of intersection of State Highways 605 and 182. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 220 ft, screened 210 to 220 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 13, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Nov. 13, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

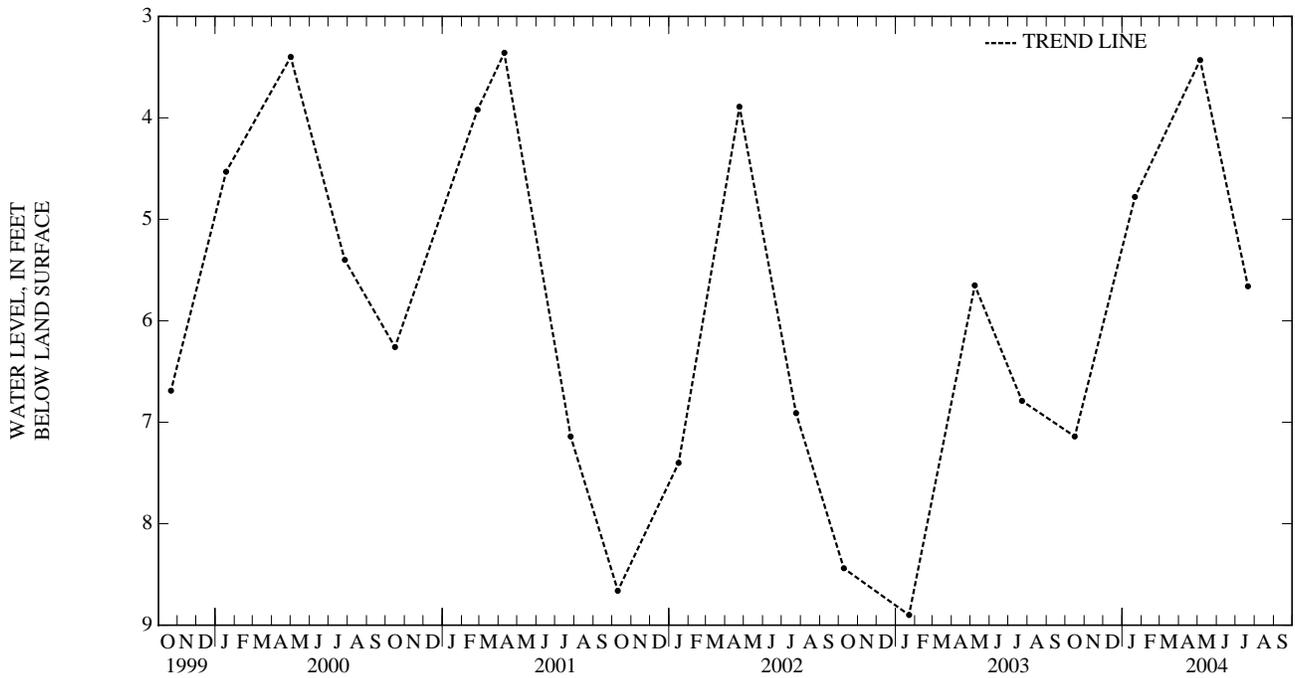
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.19 ft below land-surface datum, July 10, 1984; lowest measured, 8.90 ft below land-surface datum, Jan. 22, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	7.14	JAN 21	4.78	MAY 05	3.43	JUL 21	5.66
WATER YEAR 2004 HIGHEST		3.43	MAY 05, 2004 LOWEST		7.14	OCT 16, 2003	



ACCOMACK COUNTY—Continued

373845075522501. Local number, 64K 7 SOW 106C.

LOCATION.--Lat 37°38'45", long 75°52'24", NAD83, Hydrologic Unit 02080109, 100 ft north of State Highway 633, 0.3 mi northwest of intersection of State Highways 631 and 633, and 0.3 mi northwest of Hacksneck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 176 ft, screened 166 to 176 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 3 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.73 ft above land-surface datum.

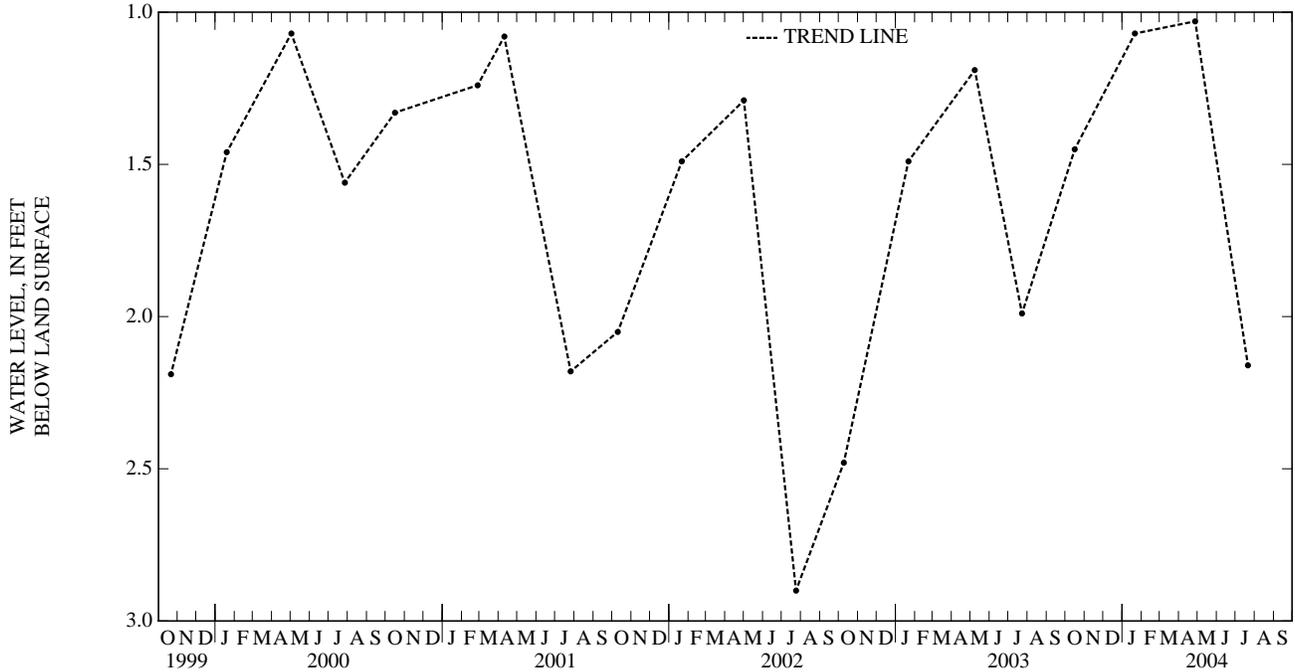
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.31 ft below land-surface datum, May 22, 1991; lowest measured, 2.90 ft below land-surface datum, July 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	1.45	JAN 21	1.07	APR 27	1.03	JUL 21	2.16
WATER YEAR 2004 HIGHEST		1.03	APR 27, 2004 LOWEST		2.16	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

373845075522503. Local number, 64K 8 SOW 106B.

LOCATION.--Lat 37°38'45", long 75°52'24", NAD83, Hydrologic Unit 02080109, 100 ft north of State Highway 633, 0.3 mi northwest of intersection of State Highways 631 and 633, and 0.3 mi northwest of Hacksneck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 95 ft, screened 85 to 95 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 3 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

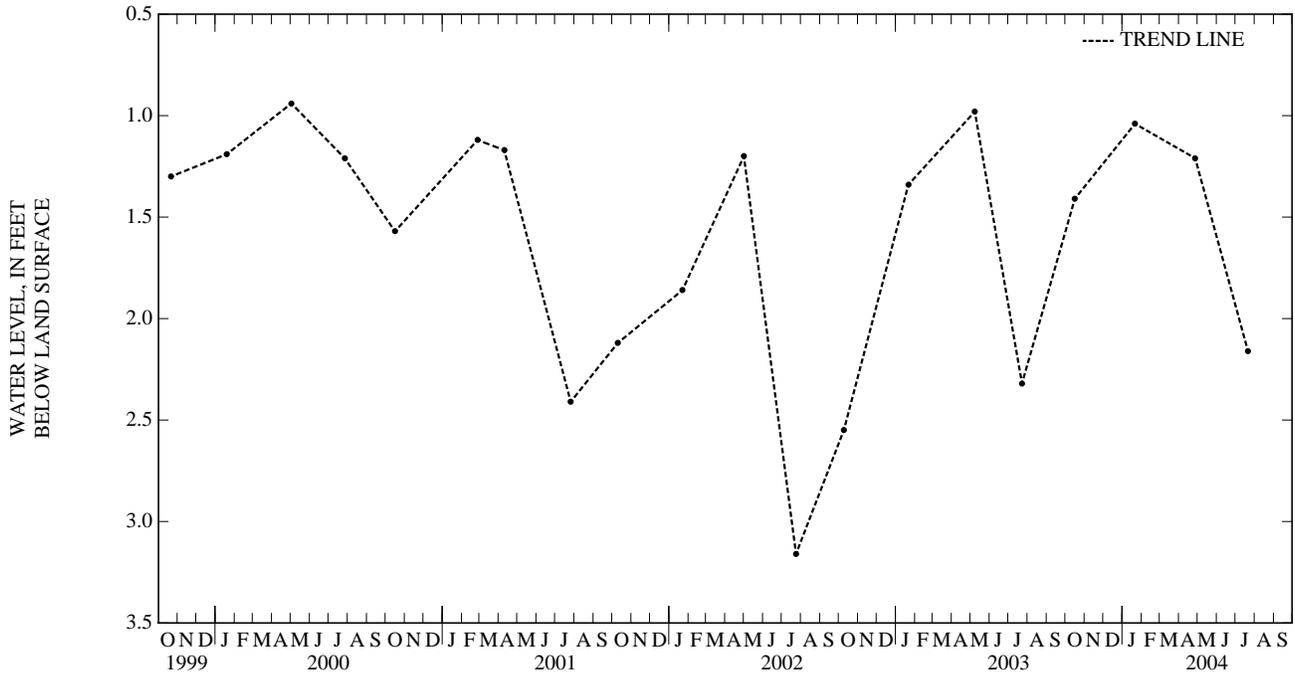
REMARKS.--Records provided by the Virginia Department of Environmental Quality. - Water Division.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.69 ft below land-surface datum, Oct. 22, 1996; lowest measured, 3.16 ft below land-surface datum, July 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	1.41	JAN 21	1.04	APR 27	1.21	JUL 21	2.16
WATER YEAR 2004 HIGHEST		1.04	JAN 21, 2004 LOWEST		2.16	JUL 21, 2004	



ACCOMACK COUNTY—Continued

373845075522502. Local number, 64K 9 SOW 106A.

LOCATION.--Lat 37°38'45", long 75°52'24", NAD83, Hydrologic Unit 02080109, 100 ft north of State Highway 633, 0.3 mi northwest of intersection of State Highways 631 and 633, and 0.3 mi northwest of Hacksneck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 37 ft, screened 27 to 37 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is approximately 3 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

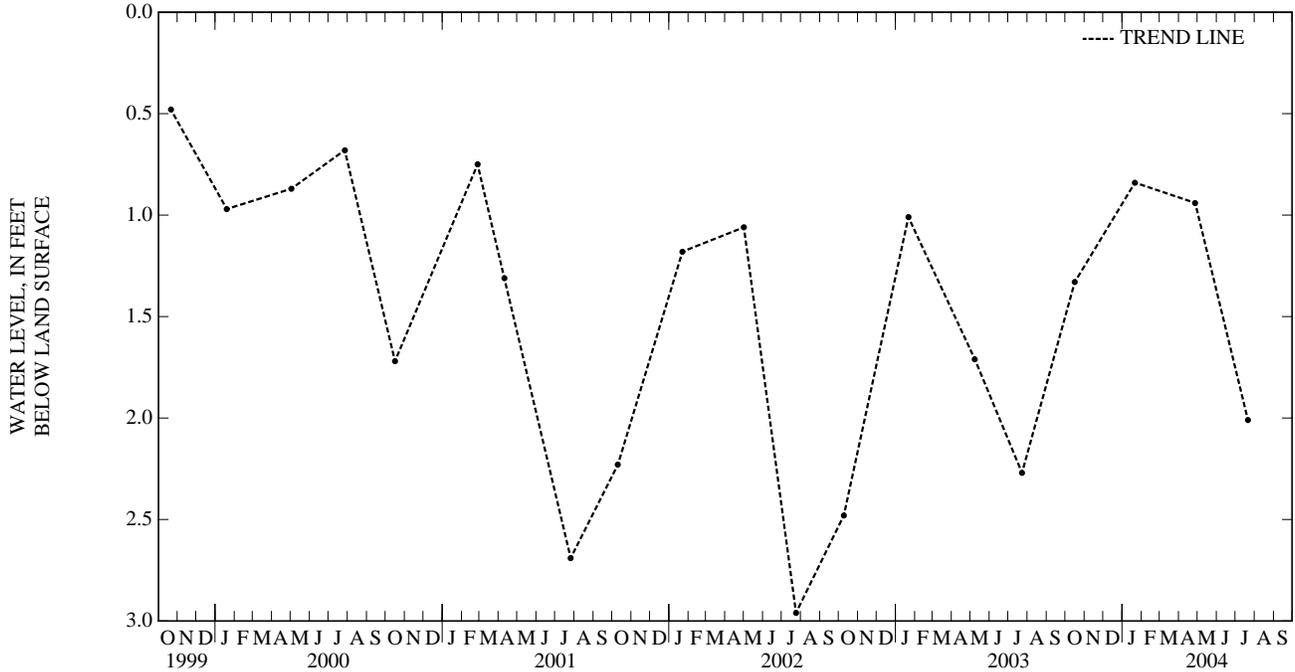
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.32 ft below land-surface datum, Feb. 24, 1994; lowest measured, 3.46 ft below land-surface datum, Sept. 14, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	1.33	JAN 21	.84	APR 27	.94	JUL 21	2.01
WATER YEAR 2004 HIGHEST		.84	JAN 21, 2004 LOWEST		2.01	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

373932075452701. Local number, 64K 10 SOW 108A.

LOCATION.--Lat 37°39'32", long 75°45'26", NAD83, Hydrologic Unit 02080109, 200 ft east of State Highway 609, 0.2 mi southeast of intersection of State Highways 609 and 627, and 0.9 mi northwest of Melfa. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 50 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 47 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.22 ft above land-surface datum prior to Mar. 1, 1988; 0.75 ft thereafter.

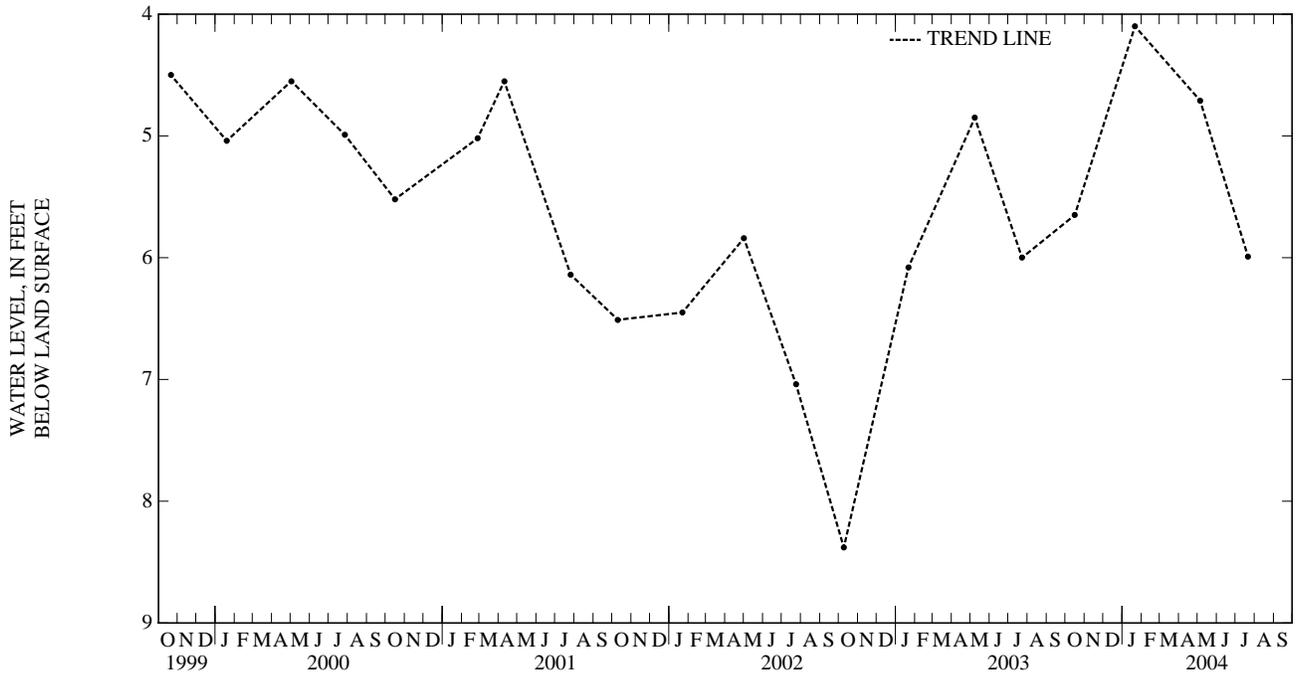
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.98 ft below land-surface datum, Apr. 21, 1983; lowest measured, 15.06 ft below land-surface datum, Jan. 30, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	5.65	JAN 21	4.10	MAY 05	4.71	JUL 21	5.99
WATER YEAR 2004 HIGHEST		4.10	JAN 21, 2004 LOWEST		5.99	JUL 21, 2004	



ACCOMACK COUNTY—Continued

373932075452702. Local number, 64K 11 SOW 108B.

LOCATION.--Lat 37°39'32", long 75°45'26", NAD83, Hydrologic Unit 02080109, 200 ft east of State Highway 609, 0.2 mi southeast of intersection of State Highways 609 and 627, and 0.9 mi northwest of Melfa. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 180 ft, screened 170 to 180 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 47 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

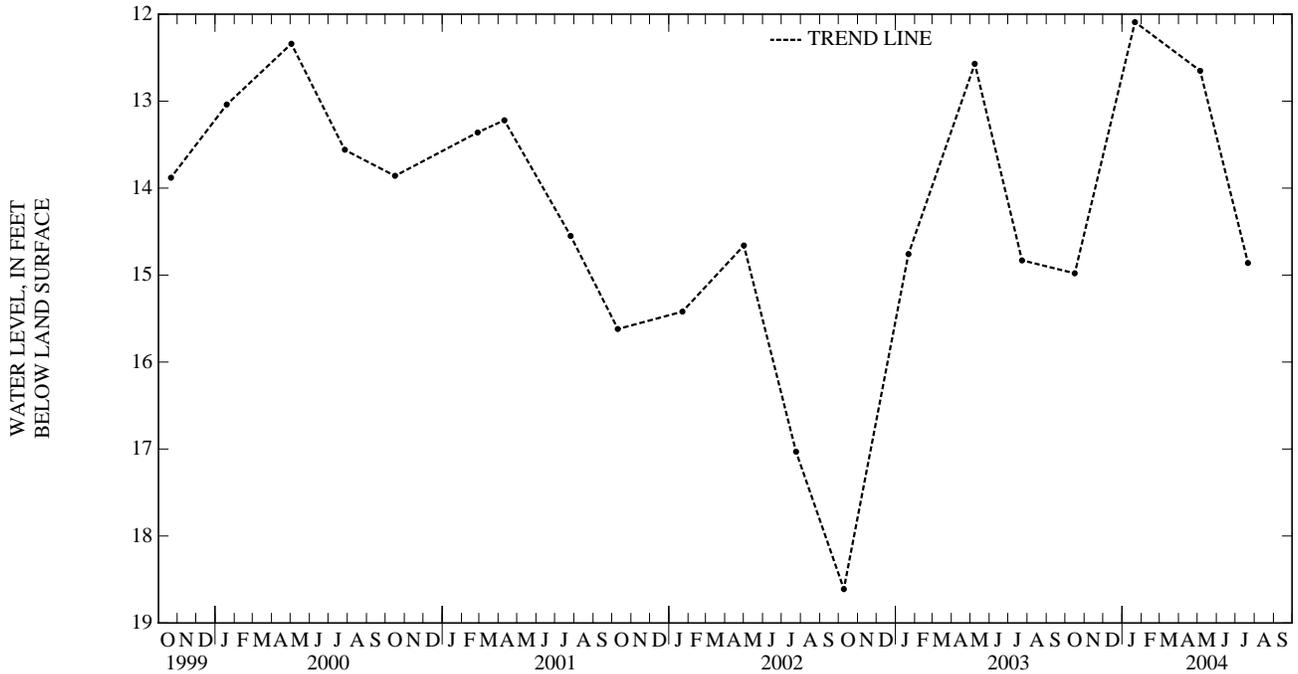
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.03 ft below land-surface datum, Aug. 1, 1979; lowest measured, 18.61 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	14.98	JAN 21	12.09	MAY 05	12.65	JUL 21	14.86
WATER YEAR 2004 HIGHEST		12.09	JAN 21, 2004 LOWEST		14.98	OCT 16, 2003	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

373932075452703. Local number, 64K 12 SOW 108C.

LOCATION.--Lat 37°39'32", long 75°45'26", NAD83, Hydrologic Unit 02080109, 200 ft east of State Highway 609, 0.2 mi southeast of intersection of State Highways 609 and 627, and 0.9 mi northwest of Melfa. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 284 ft, screened 274 to 284 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 47 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum.

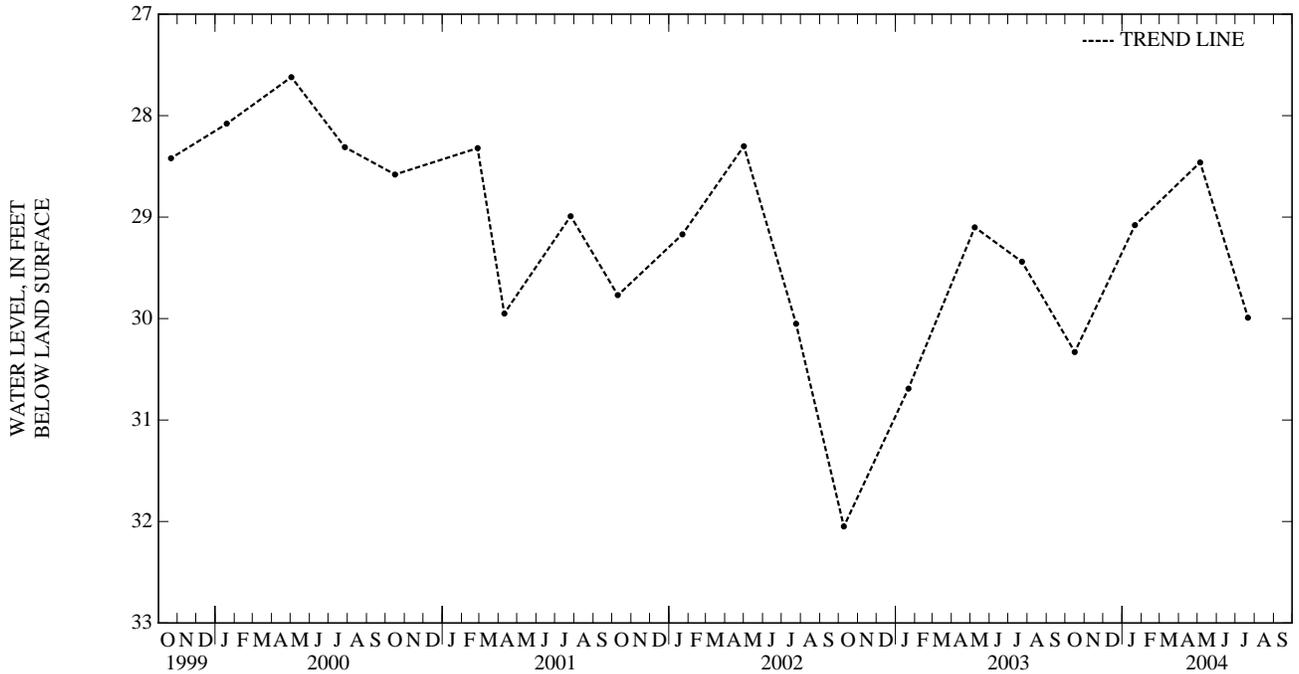
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.50 ft below land-surface datum, Feb. 2, 1984; lowest measured, 32.05 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	30.33	JAN 21	29.08	MAY 05	28.46	JUL 21	29.99
WATER YEAR 2004 HIGHEST		28.46	MAY 05, 2004 LOWEST		30.33	OCT 16, 2003	



ACCOMACK COUNTY—Continued

374442075432501. Local number, 65K 23 SOW 109C.

LOCATION.--Lat 37°44'42", long 75°43'24", NAD83, Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 290 ft, screened 280 to 290 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum.

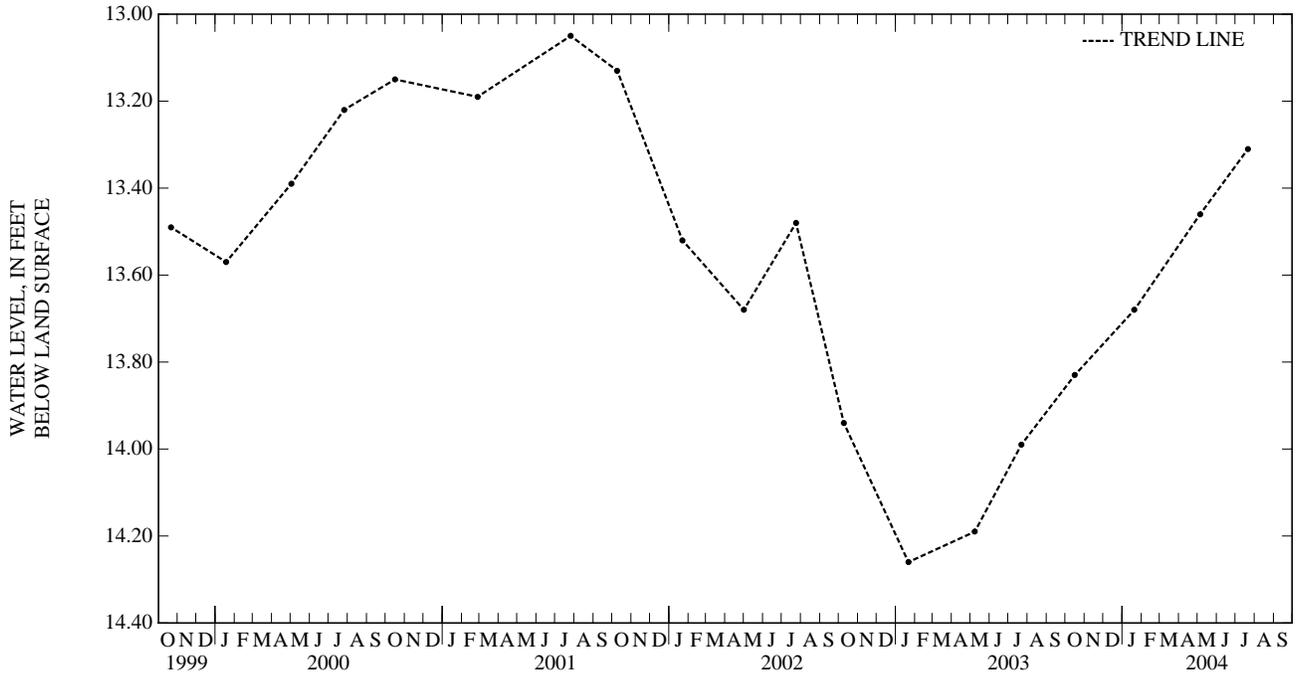
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.36 ft below land-surface datum, Dec. 30, 1982; lowest measured, 16.65 ft below land-surface datum, Mar. 12, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	13.83	JAN 20	13.68	MAY 05	13.46	JUL 21	13.31
WATER YEAR 2004 HIGHEST		13.31	JUL 21, 2004 LOWEST		13.83	OCT 16, 2003	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

374442075432502. Local number, 65K 24 SOW 109A.

LOCATION.--Lat 37°44'42", long 75°43'24", NAD83, Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 130 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

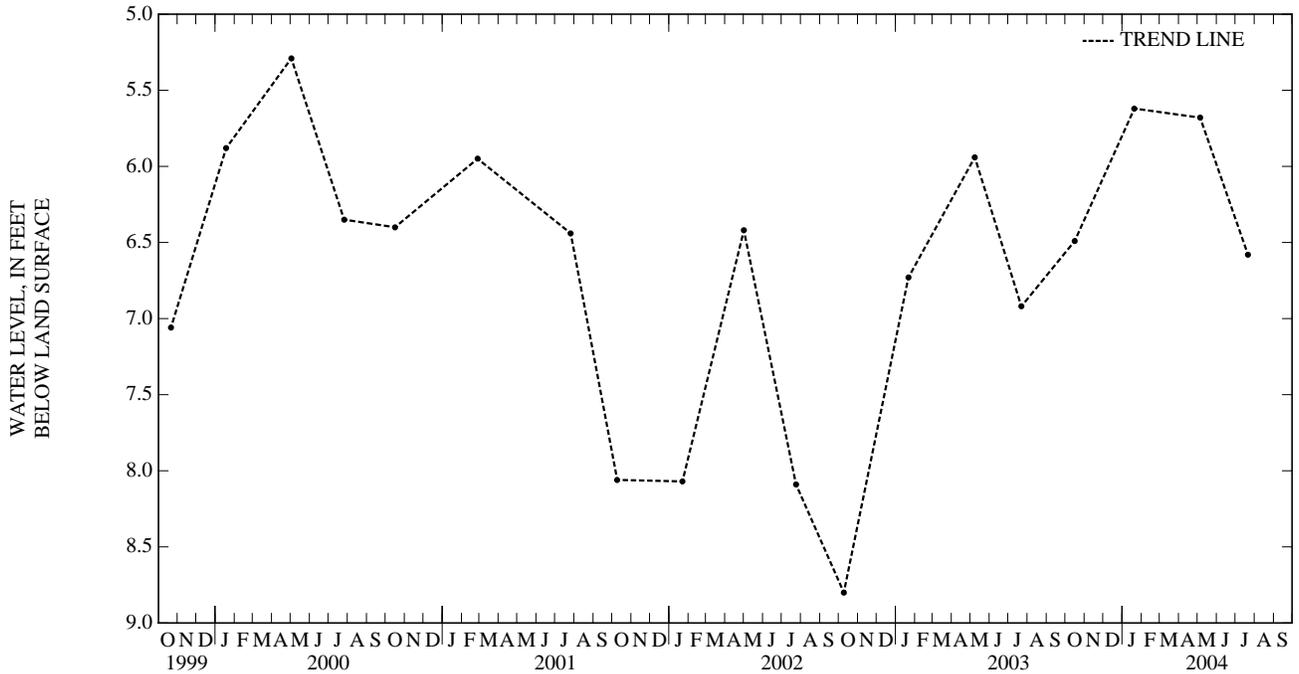
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.35 ft below land-surface datum, Apr. 21, 1983; lowest measured, 9.27 ft below land-surface datum, Oct. 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	6.49	JAN 20	5.62	MAY 05	5.68	JUL 21	6.58
WATER YEAR 2004 HIGHEST		5.62	JAN 20, 2004 LOWEST		6.58	JUL 21, 2004	



ACCOMACK COUNTY—Continued

374442075432503. Local number, 65K 25 SOW 109B.

LOCATION.--Lat 37°44'42", long 75°43'24", NAD83, Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 228 ft, screened 218 to 228 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

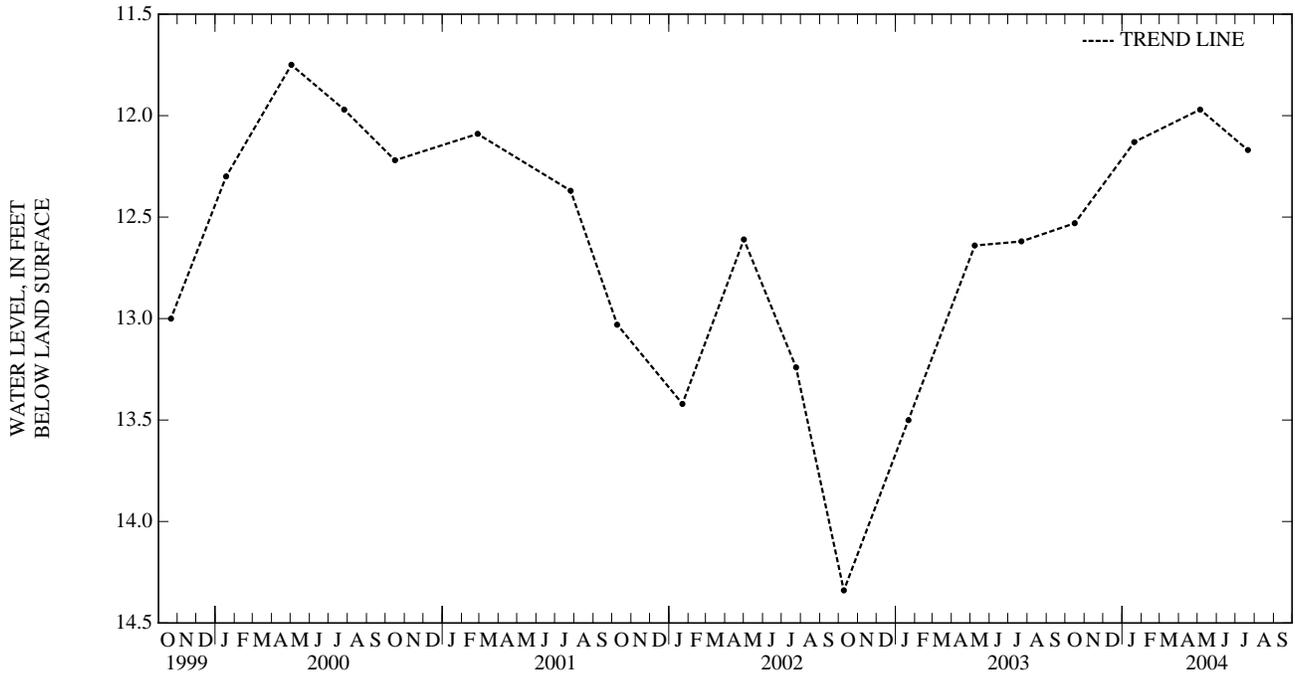
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.15 ft below land-surface datum, June 20, 1984; lowest measured, 14.34 ft below land-surface datum, Sept. 10, 1991 and Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	12.53	JAN 20	12.13	MAY 05	11.97	JUL 21	12.17
WATER YEAR 2004 HIGHEST		11.97	MAY 05, 2004 LOWEST		12.53	OCT 16, 2003	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

374442075432504. Local number, 65K 26 SOW 109S.

LOCATION.--Lat 37°44'42", long 75°43'24", NAD83, Hydrologic Unit 02080109, 50 ft north of State Highway 658, 0.1 mi northeast of intersection of State Highways 658 and 660, and 2.2 mi southeast of Deep Creek. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 25 ft, screened 15 to 25 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.37 ft above land-surface datum prior to Mar. 1, 1988; 0.5 ft thereafter.

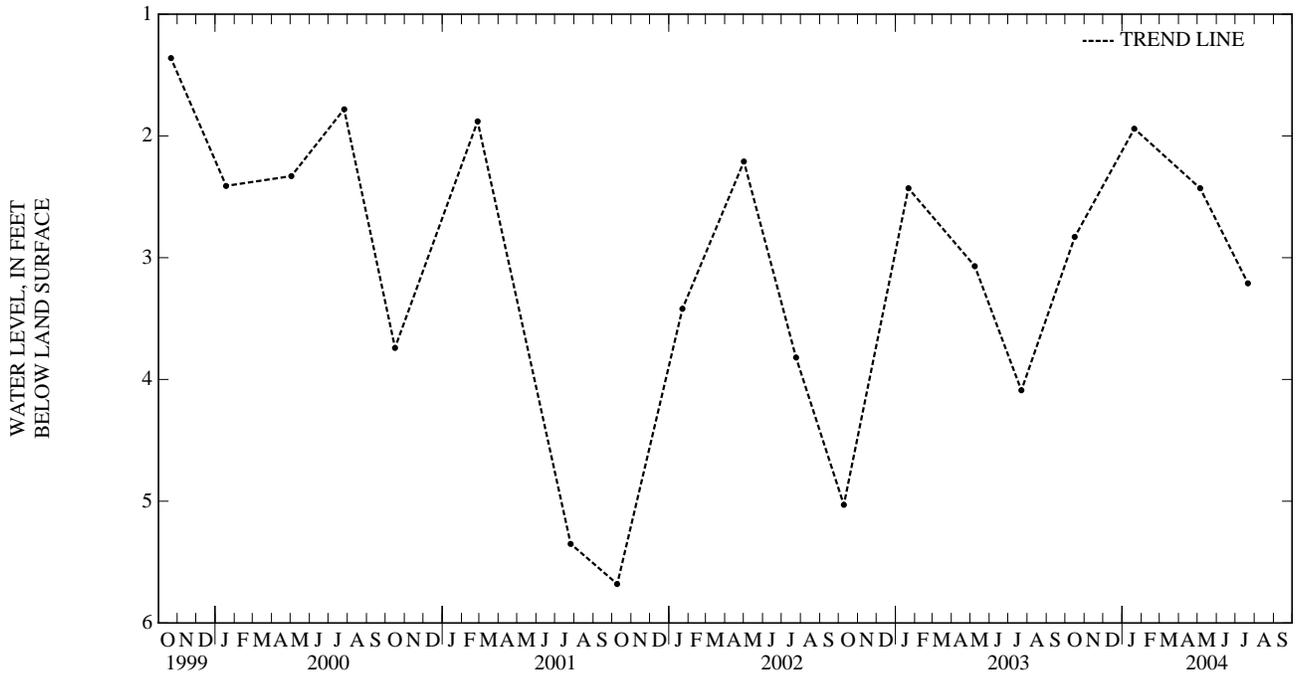
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.03 ft below land-surface datum, Feb. 24, 1994; lowest measured, 6.57 ft below land-surface datum, Oct. 31, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	2.83	JAN 20	1.94	MAY 05	2.43	JUL 21	3.21
WATER YEAR 2004 HIGHEST		1.94	JAN 20, 2004 LOWEST		3.21	JUL 21, 2004	



ACCOMACK COUNTY—Continued

374425075400001. Local number, 65K 27 SOW 114A.

LOCATION.--Lat 37°44'25", long 75°39'59", NAD83, Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 160 ft, screened 150 to 160 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.4 ft above land-surface datum prior to Feb. 27, 1990; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage. Missing record due to recorder malfunction.

PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

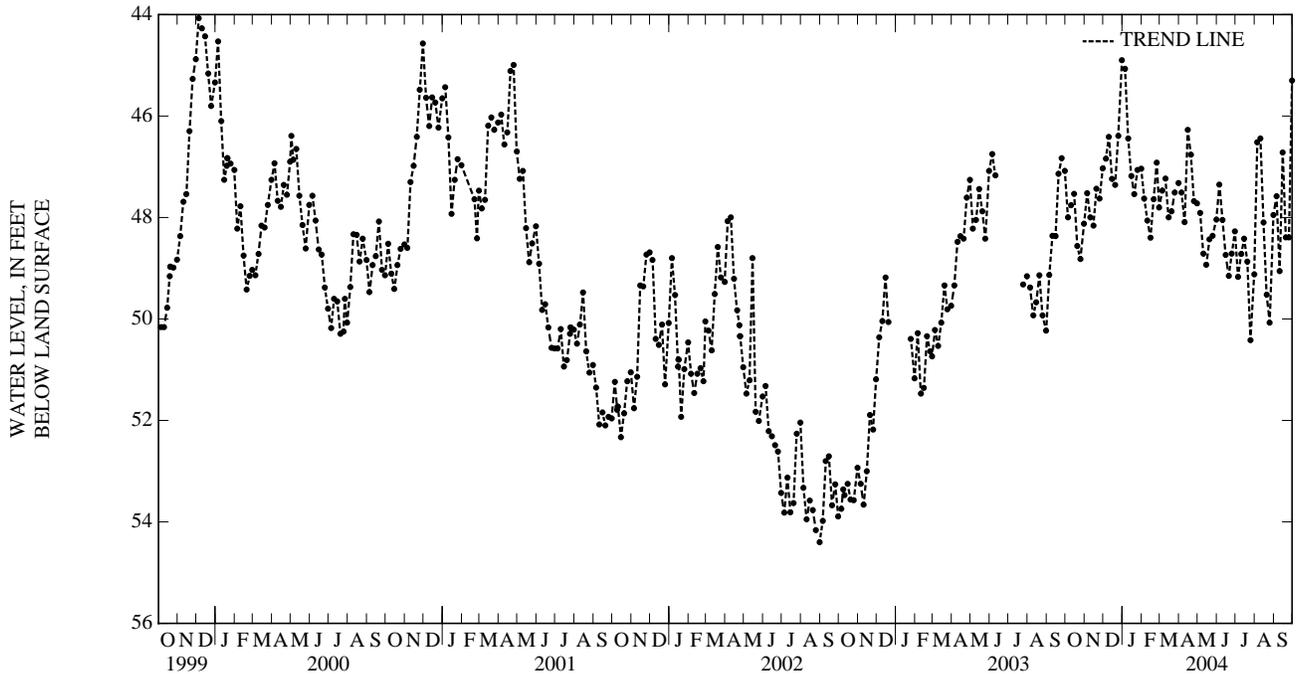
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.59 ft below land-surface datum, June 6, 1984; lowest measured, 54.72 ft below land-surface datum, Sept. 2, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 44.86 ft below land-surface datum, Oct. 1; lowest instantaneous water-level, 50.42 ft below land-surface datum, July 25.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.00	47.52	46.84	45.07	47.63	47.47	47.51	47.91	47.35	49.17	46.52	47.58
10	47.76	48.00	46.41	46.44	48.06	47.23	48.09	48.71	48.05	48.72	46.44	49.06
15	47.53	48.16	47.24	47.18	48.40	48.00	46.27	48.93	48.74	48.42	48.10	46.72
20	48.56	47.43	47.36	47.54	47.64	47.88	46.76	48.43	49.15	48.87	49.52	48.39
25	48.82	47.63	46.39	47.06	46.92	47.51	47.68	48.36	48.71	50.42	50.07	48.39
EOM	48.12	47.03	44.90	47.04	47.80	47.32	47.72	48.04	48.27	49.12	47.95	45.30

WATER YEAR 2004 HIGHEST 44.90 DEC 31, 2003 LOWEST 50.42 JUL 25, 2004



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

374425075400002. Local number, 65K 28 SOW 114B.

LOCATION.--Lat 37°44'25", long 75°39'59", NAD83, Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 230 ft, screened 220 to 230 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

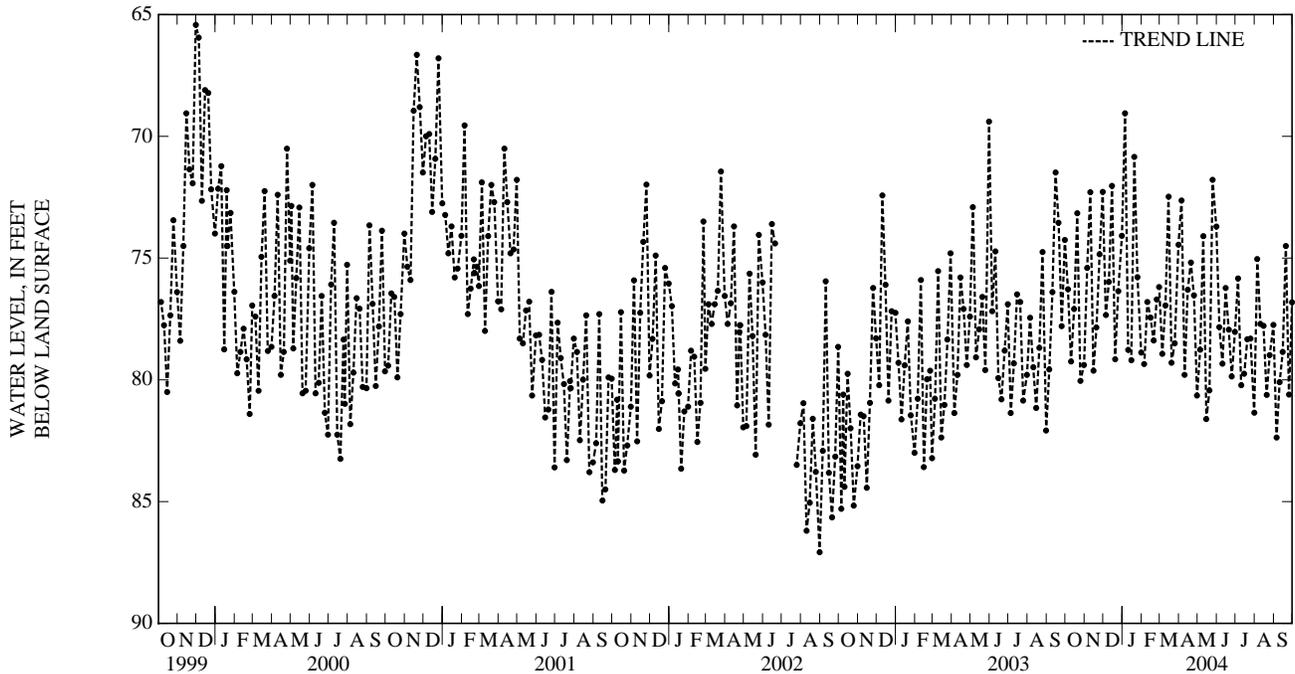
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 49.40 ft below land-surface datum, June 6, 1987; lowest recorded, 87.22 ft below land-surface datum, Sept. 1, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 60.44 ft below land-surface datum, Dec. 29; lowest instantaneous water-level, 82.37 ft below land-surface datum, Sept. 5.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	76.28	75.40	77.34	69.05	79.35	78.93	72.64	78.76	77.84	75.84	75.04	82.37
10	79.25	72.30	75.98	78.77	76.80	76.95	79.80	74.10	79.34	80.22	77.70	80.10
15	77.09	79.62	72.04	79.20	77.44	72.48	76.30	81.61	76.23	79.75	77.78	78.85
20	73.16	77.85	79.15	70.84	78.39	79.30	75.18	80.43	77.94	78.33	80.62	74.50
25	80.04	74.84	76.36	75.79	76.70	78.50	76.53	71.78	79.86	78.30	78.99	80.61
EOM	79.39	72.28	74.08	78.88	76.19	74.45	80.64	73.71	78.03	81.35	77.74	76.82

WATER YEAR 2004 HIGHEST 69.05 JAN 05, 2004 LOWEST 82.37 SEP 05, 2004



ACCOMACK COUNTY—Continued

374425075400003. Local number, 65K 29 SOW 114C.

LOCATION.--Lat 37°44'27", long 75°39'59", NAD83, Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 315 ft, screened 305 to 315 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.5 ft above land-surface datum prior to Feb. 27, 1990; 1.6 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage. Missing record due to recorder malfunction.

PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

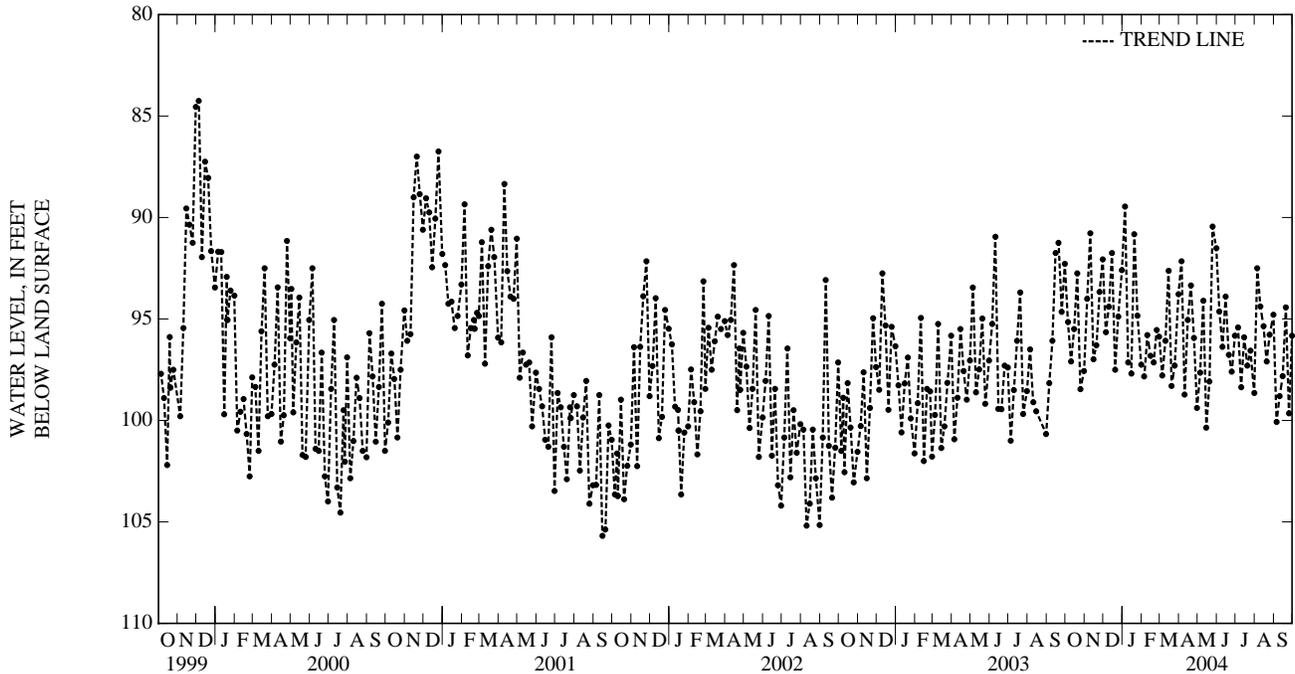
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 71.50 ft below land-surface datum, Feb. 24, 1986; lowest recorded, 108.92 ft below land-surface datum, Aug. 17, 1991.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 87.08 ft below land-surface datum, Dec. 29; lowest instantaneous water level, 100.36 ft below land-surface datum, May 15.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	95.15	94.00	95.65	89.46	97.84	97.79	92.15	97.65	94.64	95.42	92.50	100.08
10	97.10	90.78	94.40	97.15	95.79	96.08	98.73	94.10	96.37	98.37	94.39	98.81
15	95.50	96.98	91.75	97.69	96.82	92.63	95.05	100.36	93.90	95.90	95.35	97.82
20	92.75	96.29	97.50	90.82	97.15	98.30	93.35	98.08	96.77	97.30	97.09	94.43
25	98.46	93.67	94.88	94.84	95.55	97.30	95.93	90.45	97.60	96.56	95.78	99.65
EOM	97.57	92.06	92.59	97.25	95.87	93.78	99.39	91.52	95.83	98.65	94.79	95.82

WATER YEAR 2004 HIGHEST 89.46 JAN 05, 2004 LOWEST 100.36 MAY 15, 2004



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

374425075400004. Local number, 65K 30 SOW 114S.

LOCATION.--Lat 37°44'25", long 75°39'59", NAD83, Hydrologic Unit 02080109, 0.2 mi northwest of intersection of State Highway 662 and U.S. Highway 13, 0.6 mi northwest of State Highway 662, and 0.9 mi east of Greenbush. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 40 ft, screened 30 to 40 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Mar. 1, 1988; 1.5 ft thereafter.

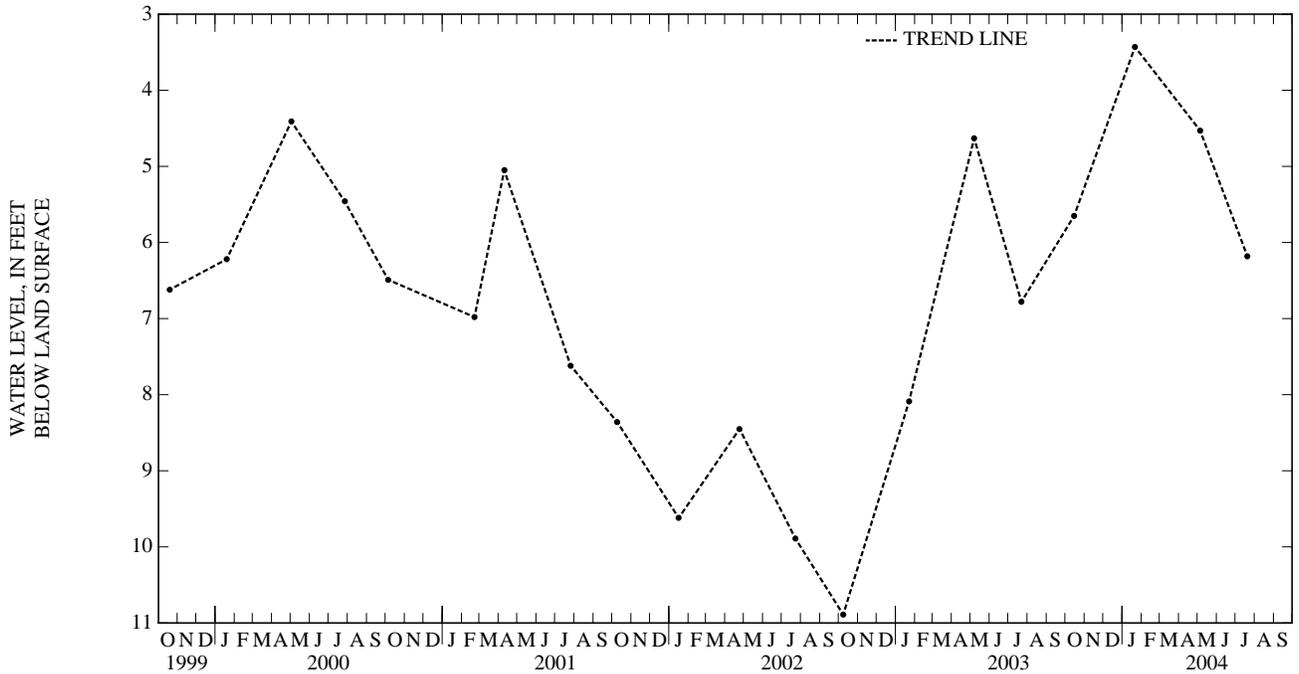
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--March 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.06 ft below land-surface datum, Oct. 21, 1996; lowest measured, 20.10 ft below land-surface datum, Dec. 9, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	5.65	JAN 21	3.43	MAY 05	4.53	JUL 20	6.18
WATER YEAR 2004 HIGHEST		3.43	JAN 21, 2004 LOWEST		6.18	JUL 20, 2004	



ACCOMACK COUNTY—Continued

374314075401402. Local number, 65K 59 SOW 183A.

LOCATION.--Lat 37°43'14", long 75°40'13", NAD83, Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 250 ft, diameter 2 in. from 250 to 285 ft, depth 285 ft, screened 275 to 285 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 6, 1990 to Jan. 28, 1997, continuous strip-chart recorder. Prior to Aug. 7, 1990, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

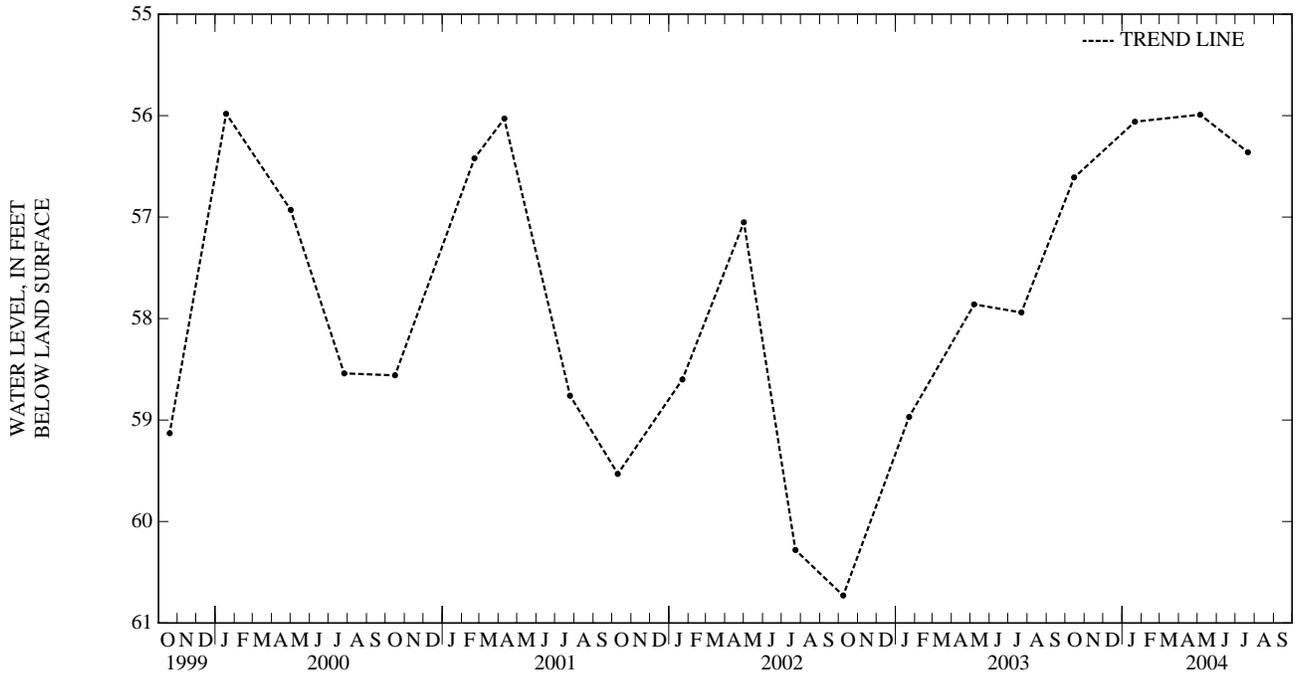
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage. Missing record due to recorder malfunction.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 52.28 ft below land-surface datum, Jan. 13, 1993; lowest recorded, 61.24 ft below land-surface datum, Sept. 29, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	56.61	JAN 21	56.06	MAY 05	55.99	JUL 21	56.36
WATER YEAR 2004 HIGHEST		55.99 MAY 05, 2004		LOWEST		56.61 OCT 15, 2003	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

374314075401403. Local number, 65K 60 SOW 183B.

LOCATION.--Lat 37°43'14", long 75°40'13", NAD83, Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 210 ft, diameter 2 in. from 210 to 235 ft, depth 235 ft, screened 225 to 235 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Jul. 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

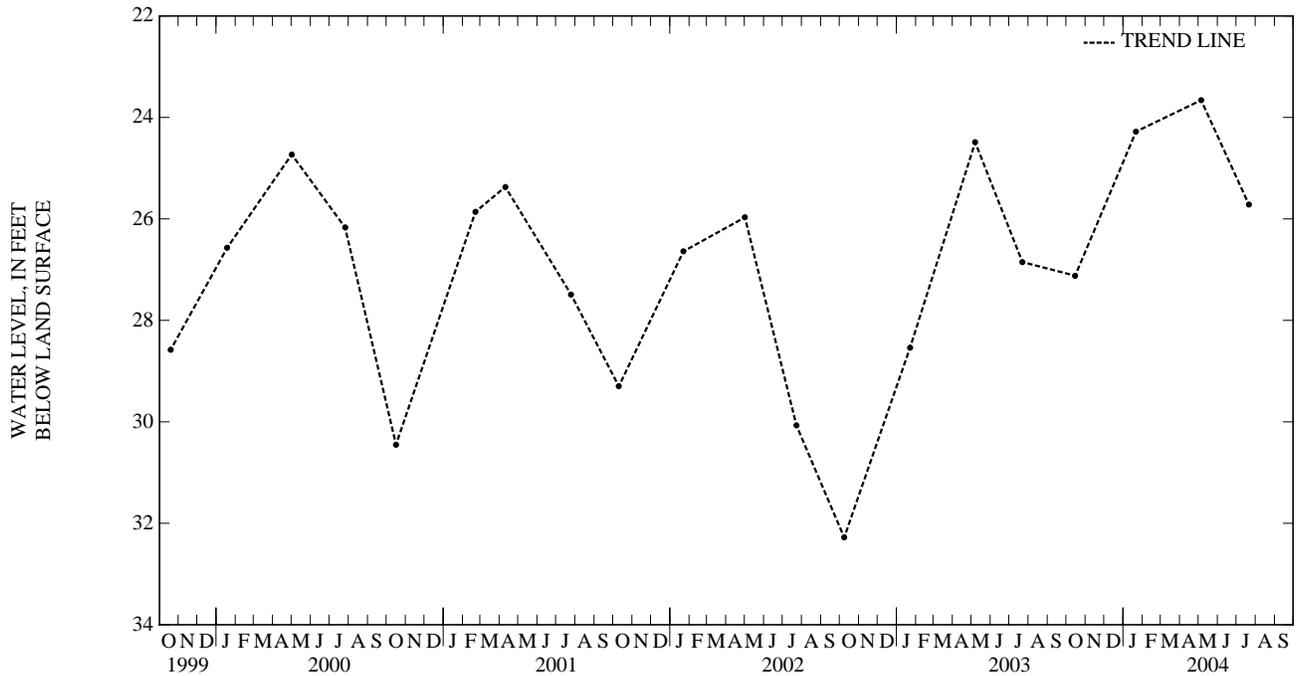
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.50 ft below land-surface datum, May 7, 1990; lowest measured, 32.28 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	27.12	JAN 21	24.28	MAY 05	23.66	JUL 21	25.72
WATER YEAR 2004 HIGHEST		23.66	MAY 05, 2004 LOWEST		27.12	OCT 15, 2003	



ACCOMACK COUNTY—Continued

374314075401404. Local number, 65K 61 SOW 183C.

LOCATION.--Lat 37°43'14", long 75°40'13", NAD83, Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 82 ft, diameter 2 in. from 82 to 134 ft, depth 134 ft, screened 124 to 134 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 6, 1990 to Jan. 28, 1997, continuous strip-chart recorder. Prior to Aug. 6, 1990, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

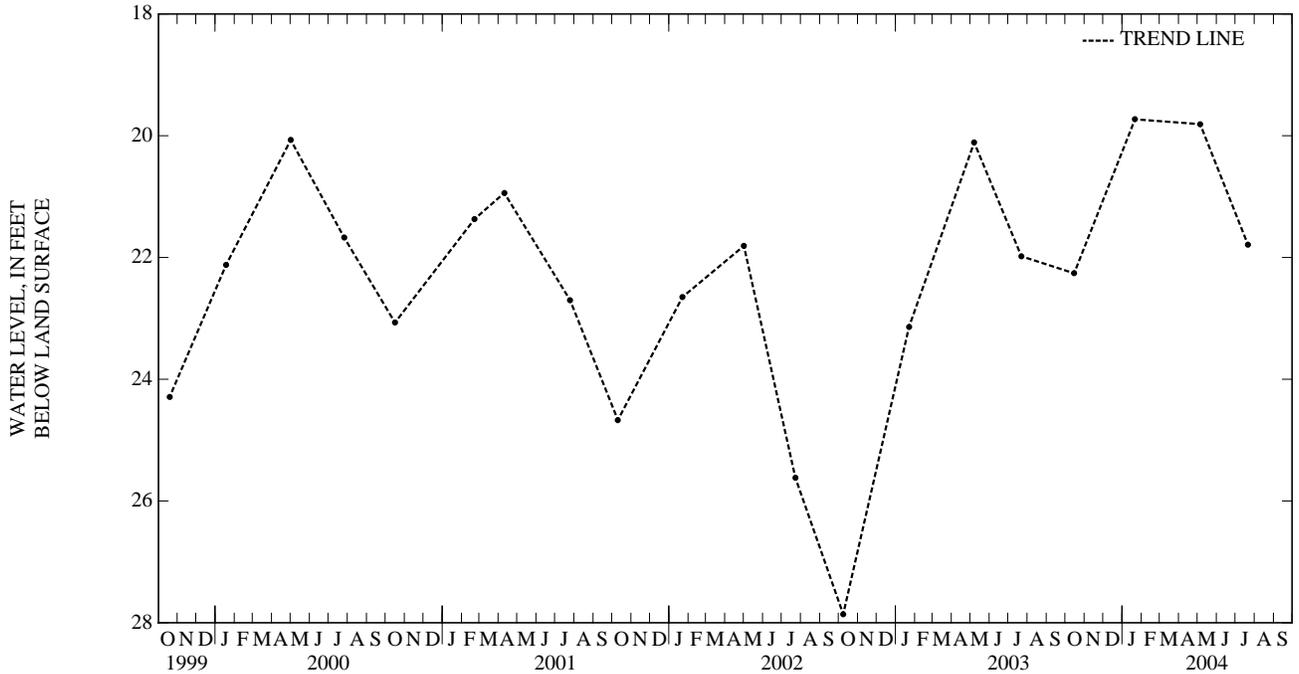
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.20 ft below land-surface datum, May 7, 1990; lowest recorded, 27.86 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	22.26	JAN 21	19.73	MAY 05	19.81	JUL 21	21.79
WATER YEAR 2004 HIGHEST		19.73	JAN 21, 2004		LOWEST		22.26
OCT 15, 2003							



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

374314075401405. Local number, 65K 62 SOW 183D.

LOCATION.--Lat 37°43'14", long 75°40'13", NAD83, Hydrologic Unit 02080109, at Accomac, 500 ft north of U.S. Highway 13 (Business), 700 ft east of intersection of State Highway 764, and U.S. Highway 13 (Business). Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 15 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Jul. 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

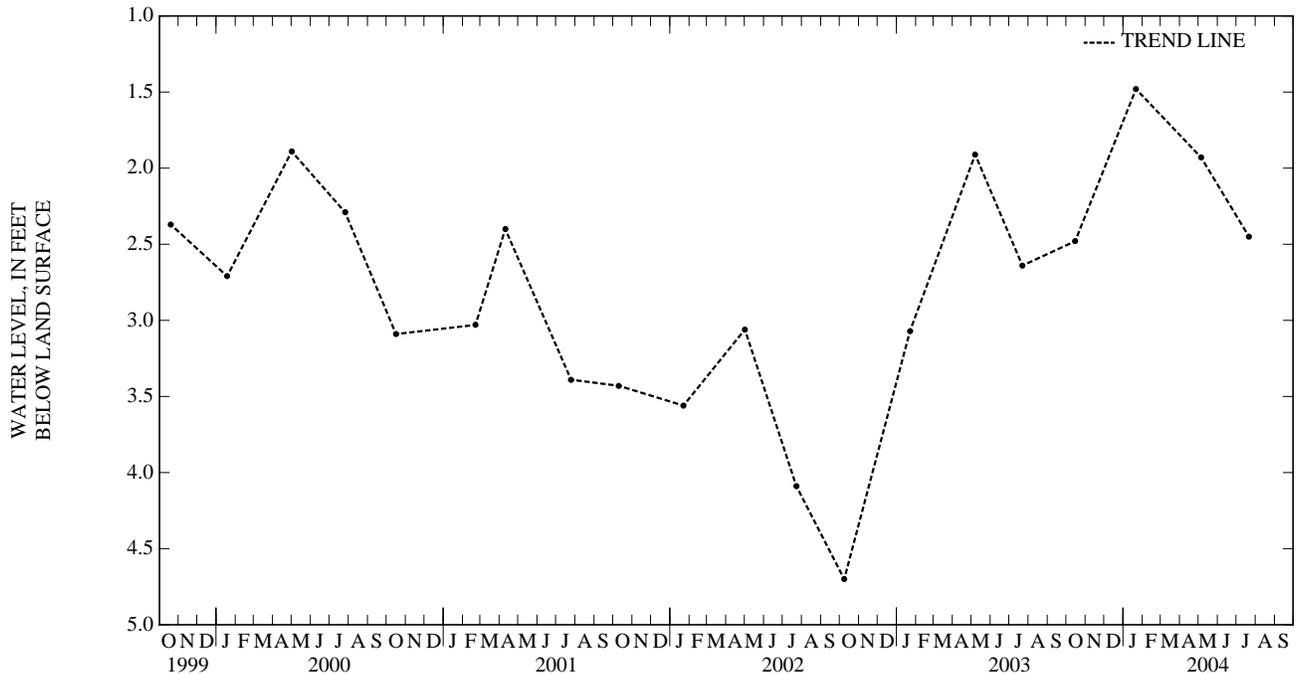
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.09 ft below land-surface datum, Jan. 4, 1993; lowest measured, 4.70 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	2.48	JAN 21	1.48	MAY 05	1.93	JUL 21	2.45
WATER YEAR 2004 HIGHEST		1.48	JAN 21, 2004 LOWEST		2.48	OCT 15, 2003	



ACCOMACK COUNTY—Continued

374320075380501. Local number, 66K 2 SOW 101C.

LOCATION.--Lat 37°43'19", long 75°36'55", NAD83, Hydrologic Unit 02080110, 0.2 mi north of State Highway 662, 2.2 mi east of intersection of State Highway 662 and U.S. Highway 13 (Business), and 2.8 mi east of Accomac. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 292 ft, screened 282 to 292 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Mar. 1, 1988; 0.6 ft thereafter.

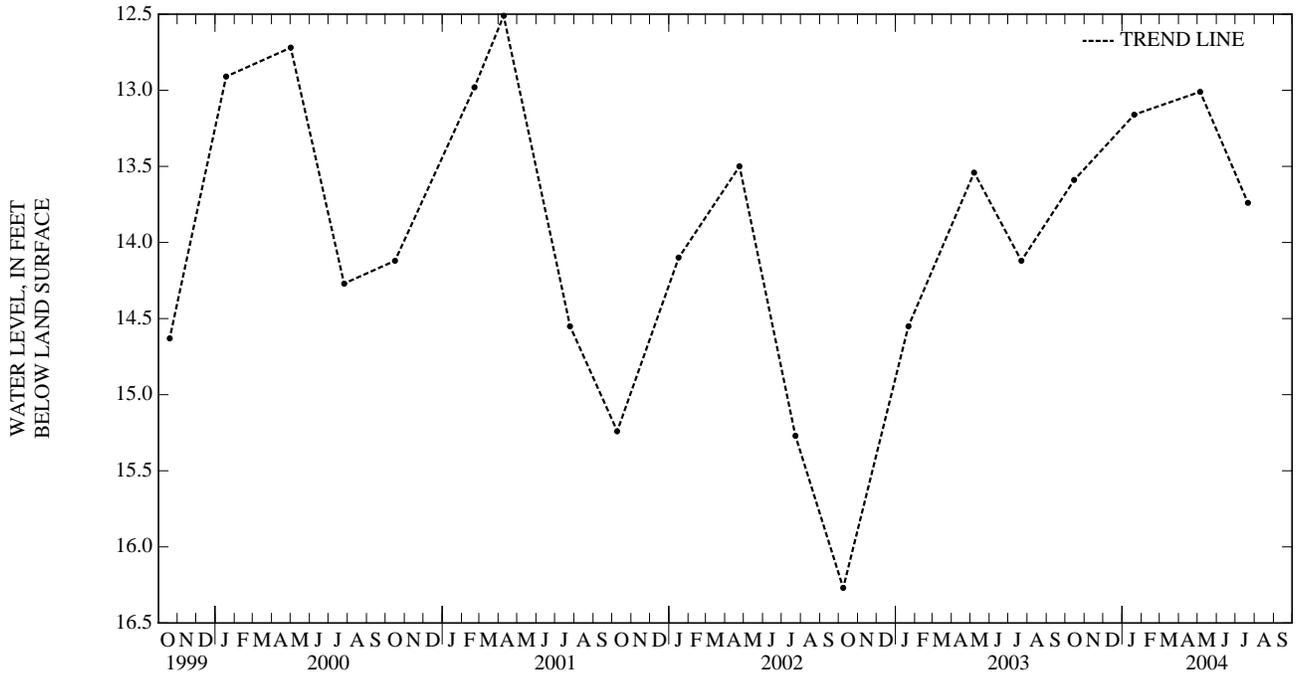
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.57 ft below land-surface datum, Apr. 25, 1984; lowest measured, 17.30 ft below land-surface datum, Aug. 5, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	13.59	JAN 20	13.16	MAY 05	13.01	JUL 21	13.74
WATER YEAR 2004 HIGHEST		13.01	MAY 05, 2004 LOWEST		13.74	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

374320075365602. Local number, 66K 3 SOW 101B.

LOCATION.--Lat 37°43'19", long 75°36'55", NAD83, Hydrologic Unit 02080110, 0.2 mi north of State Highway 662, 2.2 mi east of intersection of State Highway 662 and U.S. Highway 13 (Business), and 2.8 mi east of Accomac. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 220 ft, screened 210 to 220 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 8 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.36 ft above land-surface datum prior to Mar. 1, 1988; 0.65 ft thereafter.

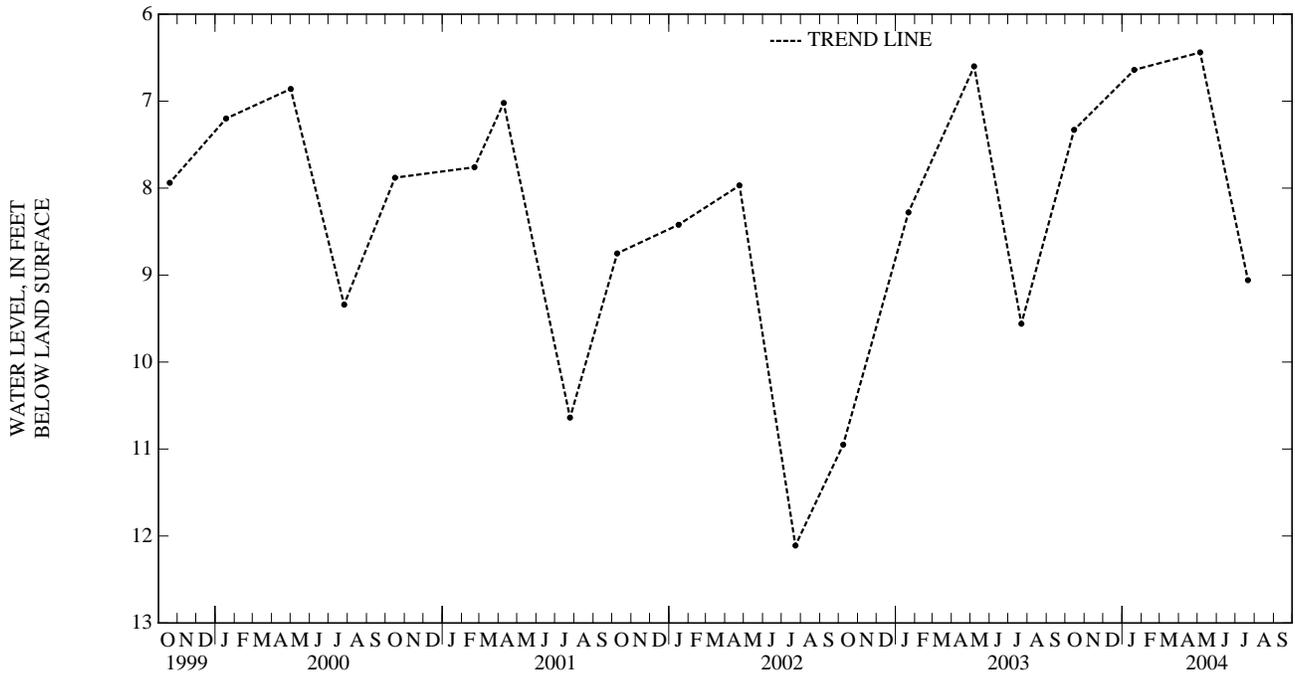
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.04 ft below land-surface datum, Apr. 25, 1984; lowest measured, 12.11 ft below land-surface datum, July 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	7.33	JAN 20	6.64	MAY 05	6.44	JUL 21	9.06
WATER YEAR 2004 HIGHEST		6.44	MAY 05, 2004 LOWEST		9.06	JUL 21, 2004	



ACCOMACK COUNTY—Continued

374320075365603. Local number, 66K 4 SOW 101A.

LOCATION.--Lat 37°43'19", long 75°36'55", NAD83, Hydrologic Unit 02080110, 0.2 mi north of State Highway 662, 2.2 mi east of intersection of State Highway 662 and U.S. Highway 13 (Business), and 2.8 mi east of Accomac. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 152 ft, screened 142 to 152 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Mar. 1, 1988; 0.65 ft Mar. 1, 1988, to June 20, 1989; at land-surface datum Jun. 21, 1989, to Jan. 3, 1990; 0.85 ft above land-surface datum thereafter.

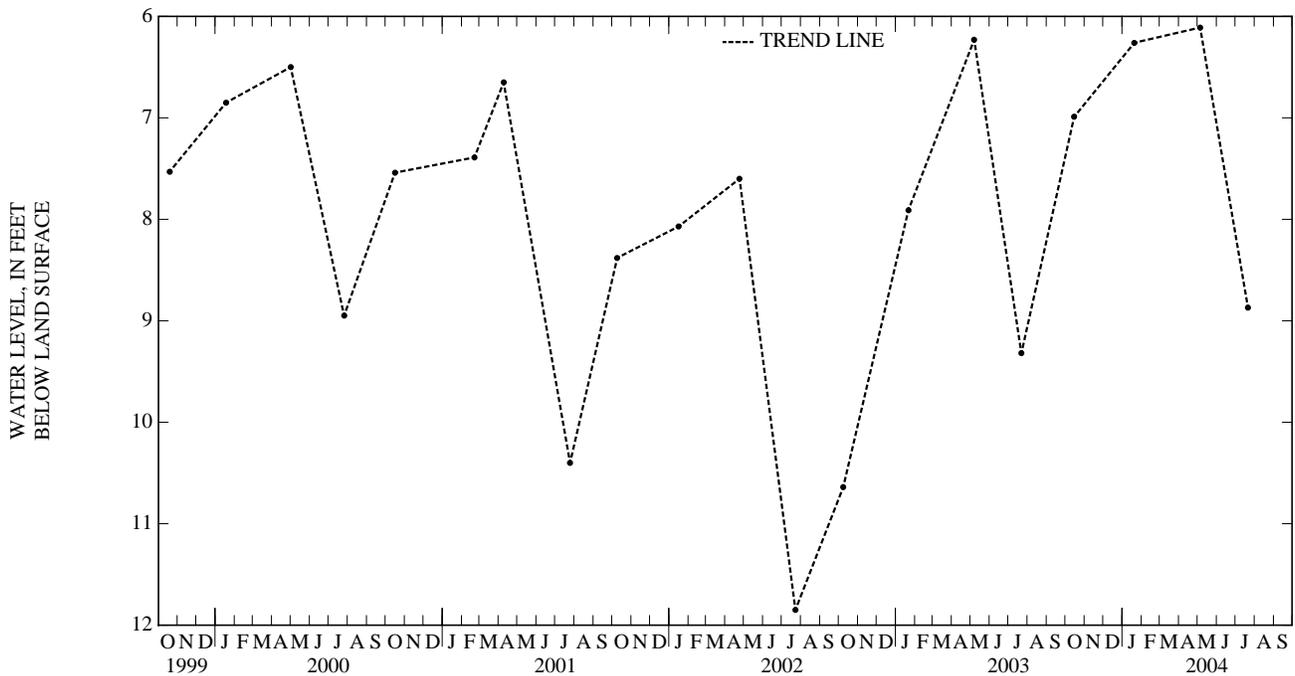
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.99 ft below land-surface datum, Apr. 25, 1984; lowest measured, 11.85 ft below land-surface datum, July 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	6.99	JAN 20	6.26	MAY 05	6.11	JUL 21	8.87
WATER YEAR 2004 HIGHEST		6.11	MAY 05, 2004 LOWEST		8.87	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

375225075321701. Local number, 66L 1 SOW 107C.

LOCATION.--Lat 37°52'25", long 75°32'16", NAD83, Hydrologic Unit 02080110, 0.15 mi northwest of State Highway 679, 0.45 mi northeast of intersection of State Highways 679 and 790, and 0.7 mi west of Assawoman. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 305 ft, screened 295 to 305 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.33 ft above land-surface datum prior to Mar. 1, 1988; 0.4 ft thereafter.

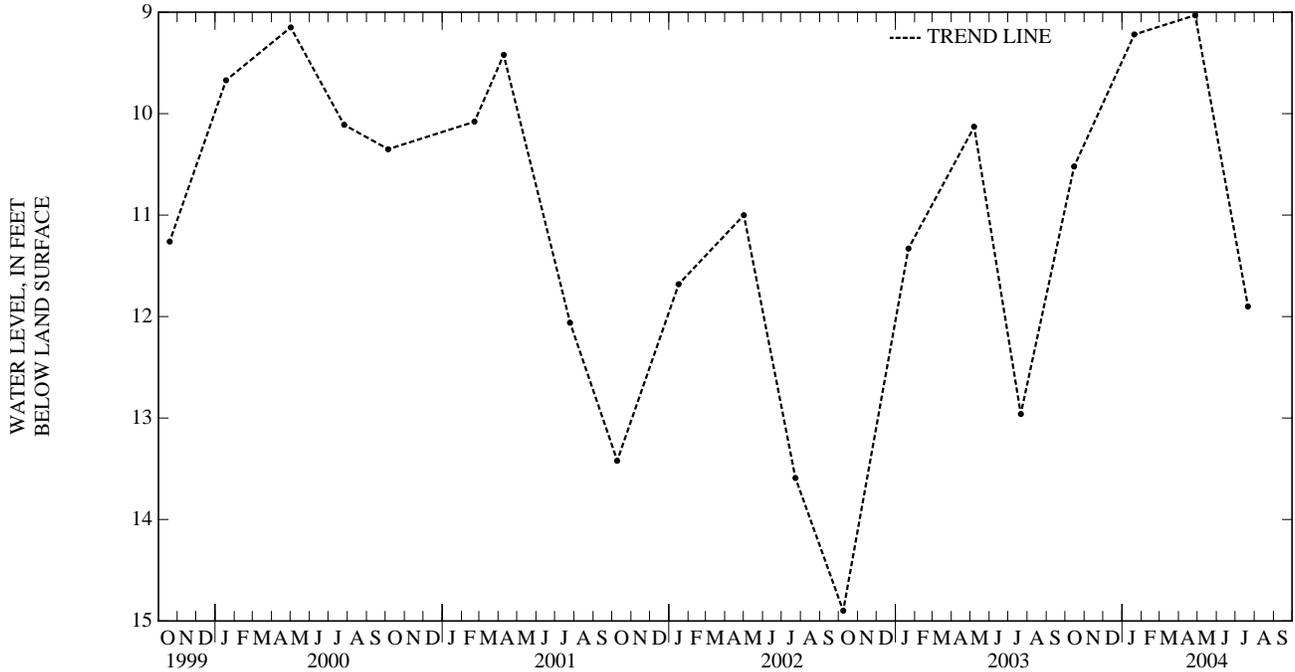
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--September 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.06 ft below land-surface datum, Jan. 4, 1984; lowest measured, 14.90 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	10.52	JAN 20	9.22	APR 27	9.03	JUL 21	11.90
WATER YEAR 2004 HIGHEST		9.03	APR 27, 2004 LOWEST		11.90	JUL 21, 2004	



ACCOMACK COUNTY—Continued

375225075321702. Local number, 66L 2 SOW 107A.

LOCATION.---Lat 37°52'25", long 75°32'16", NAD83, Hydrologic Unit 02080110, 0.15 mi northwest of State Highway 679, 0.45 mi northeast of intersection of State Highways 679 and 790, and 0.7 mi west of Assawoman. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 140 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.23 ft above land-surface datum prior to Mar. 1, 1988; 0.6 ft thereafter.

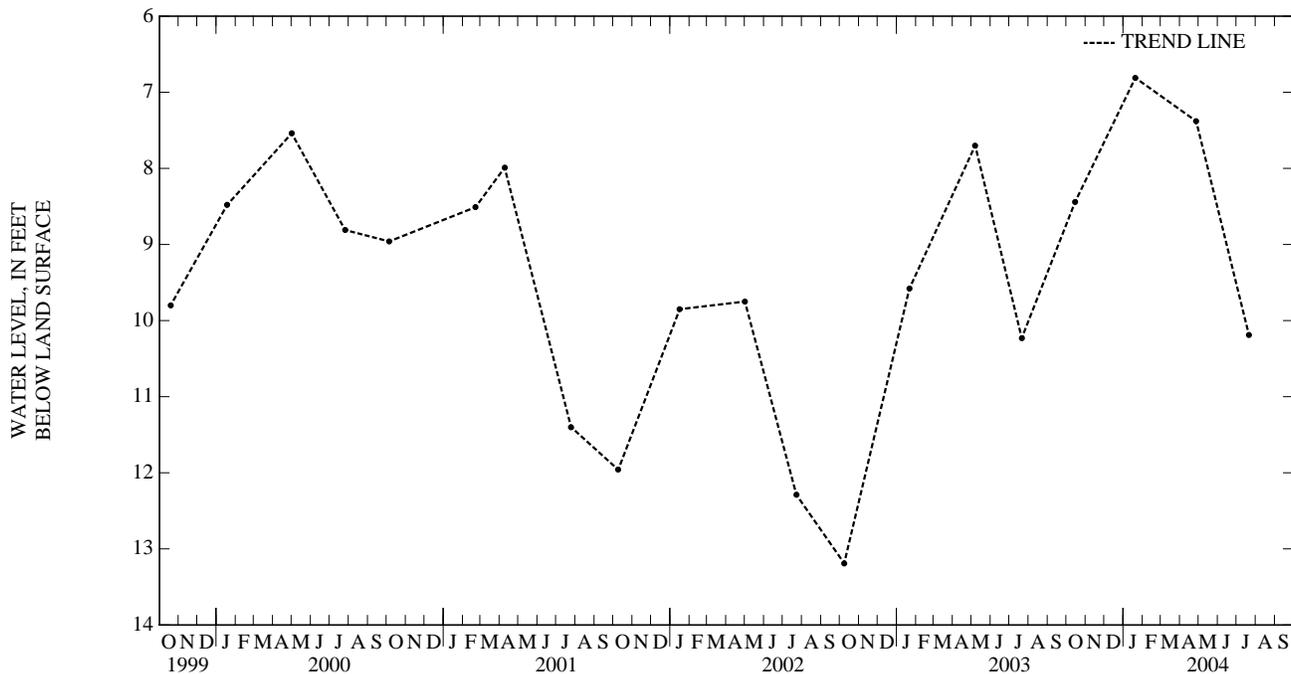
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.21 ft below land-surface datum, Apr. 25, 1984; lowest measured, 13.19 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	8.44	JAN 20	6.81	APR 27	7.38	JUL 21	10.19
WATER YEAR 2004 HIGHEST		6.81	JAN 20, 2004 LOWEST		10.19	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

375225075321703. Local number, 66L 3 SOW 107B.

LOCATION.--Lat 37°52'25", long 75°32'16", NAD83, Hydrologic Unit 02080110, 0.15 mi northwest of State Highway 679, 0.45 mi northeast of intersection of State Highways 679 and 790, and 0.7 mi west of Assawoman. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 206 ft, screened 191 to 201 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum prior to June 19, 1990; 0.3 ft thereafter.

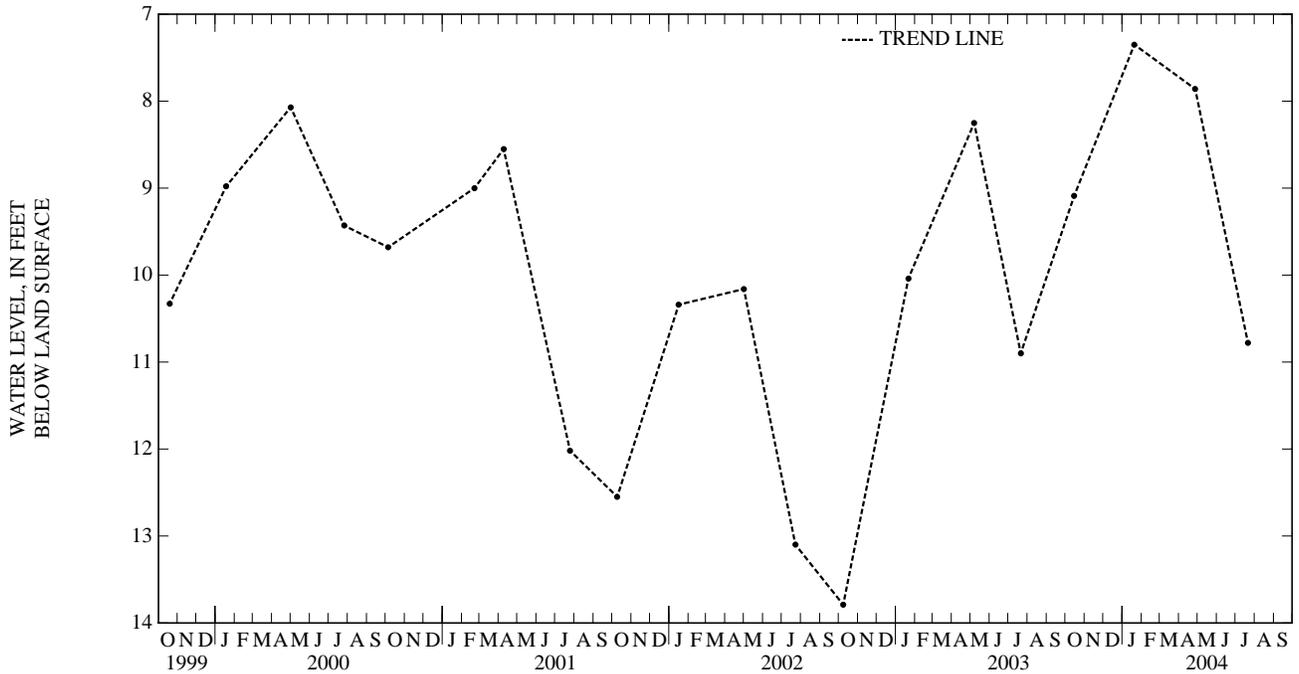
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.64 ft below land-surface datum, Apr. 25, 1984; lowest measured, 13.79 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	9.09	JAN 20	7.35	APR 27	7.86	JUL 21	10.78
WATER YEAR 2004 HIGHEST		7.35	JAN 20, 2004 LOWEST		10.78	JUL 21, 2004	



ACCOMACK COUNTY—Continued

375723075344401. Local number, 66M 16 SOW 110A.

LOCATION.--Lat 37°57'23", long 75°34'43", NAD83, Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 130 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.45 ft above land-surface datum prior to Feb. 29, 1988; 0.65 ft Mar. 1, 1988, to Oct. 3, 1989; at land-surface datum Oct. 4, 1989, to Jan. 3, 1990; 1.0 ft above land-surface datum Jan. 4, 1990, to Oct. 10, 1990; 0.70 ft thereafter.

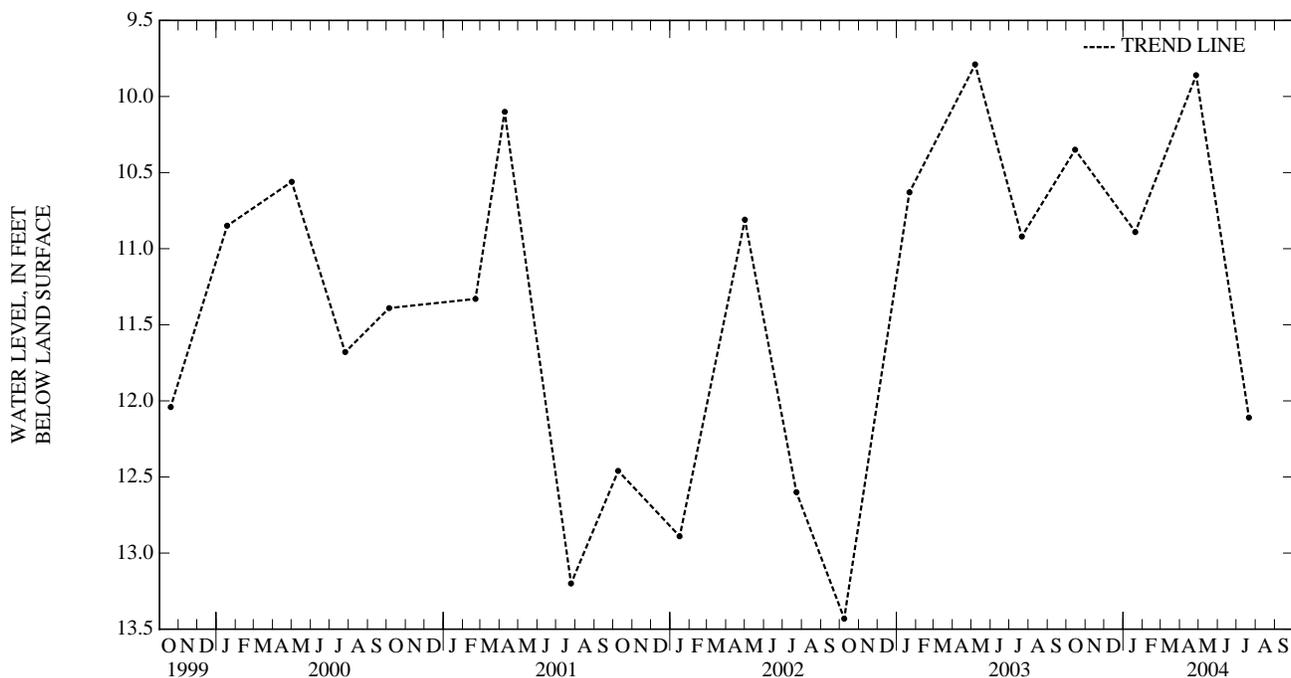
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.28 ft below land-surface datum, Feb. 19, 1986; lowest measured, 13.43 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	10.35	JAN 20	10.89	APR 27	9.86	JUL 21	12.11
WATER YEAR 2004 HIGHEST		9.86	APR 27, 2004 LOWEST		12.11	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

375723075344402. Local number, 66M 17 SOW 110B.

LOCATION.--Lat 37°57'23", long 75°34'43", NAD83, Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 178 ft, screened 168 to 178 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.45 ft above land-surface datum prior to Feb. 29, 1988; 0.75 ft thereafter.

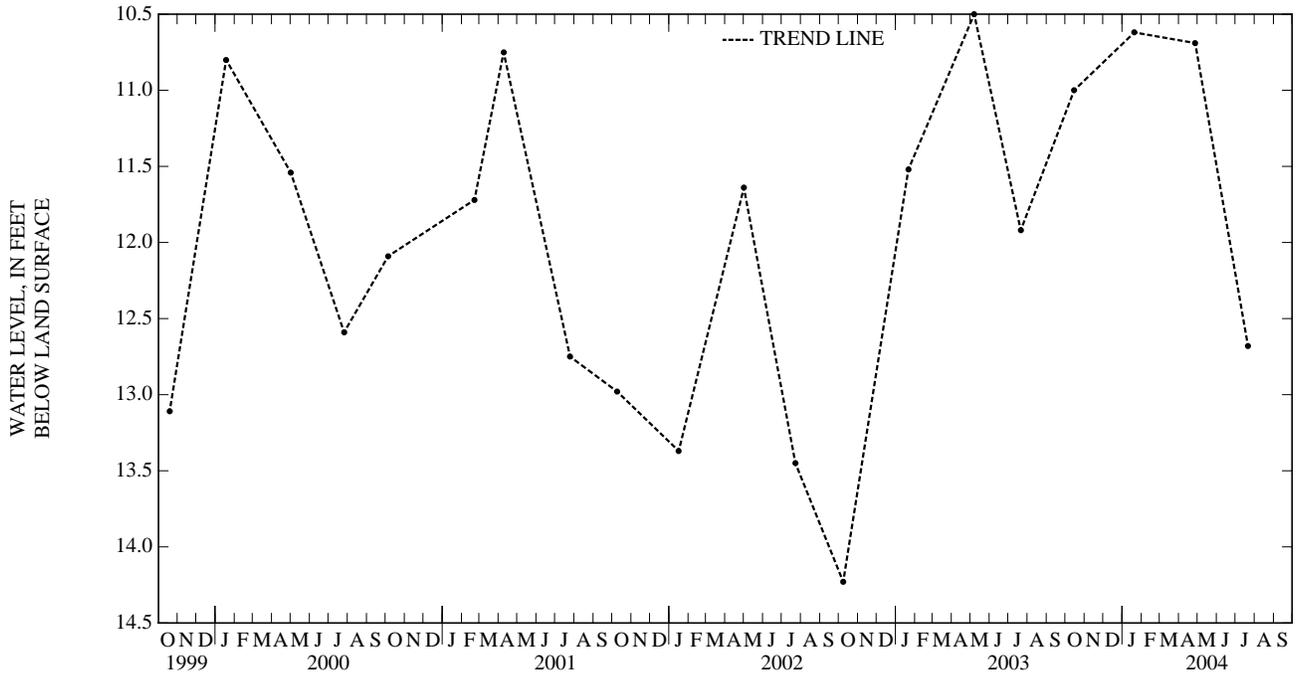
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.76 ft below land-surface datum, Apr. 1, 1980; lowest measured, 14.23 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	11.00	JAN 20	10.62	APR 27	10.69	JUL 21	12.68
WATER YEAR 2004 HIGHEST		10.62	JAN 20, 2004 LOWEST		12.68	JUL 21, 2004	



ACCOMACK COUNTY—Continued

375723075344403. Local number, 66M 18 SOW 110C.

LOCATION.--Lat 37°57'23", long 75°34'43", NAD83, Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 240 ft, screened 230 to 240 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.65 ft above land-surface datum.

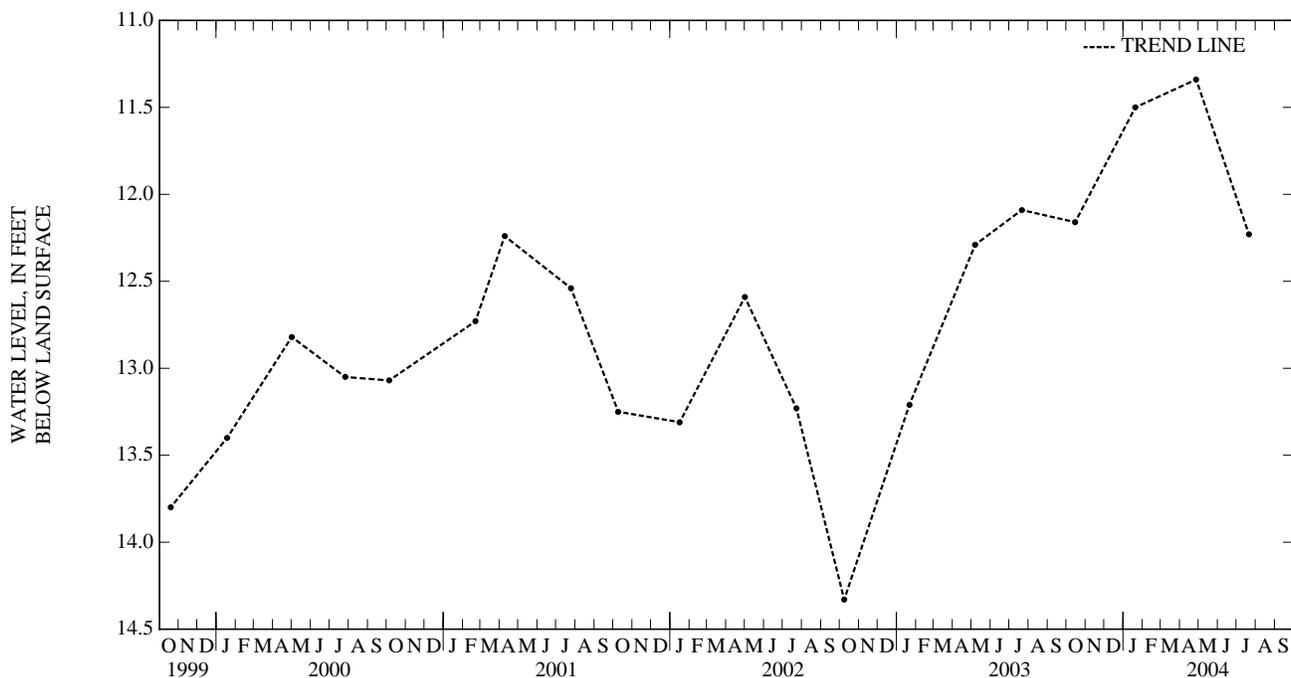
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--October 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.43 ft below land-surface datum, Aug. 12, 1981; lowest measured, 14.33 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	12.16	JAN 20	11.50	APR 27	11.34	JUL 21	12.23
WATER YEAR 2004 HIGHEST		11.34	APR 27, 2004 LOWEST		12.23	JUL 21, 2004	



GROUND-WATER LEVELS
ACCOMACK COUNTY—Continued

375723075344404. Local number, 66M 19 SOW 110S.

LOCATION.--Lat 37°57'23", long 75°34'43", NAD83, Hydrologic Unit 02060009, 0.25 mi northeast of State Highway 693, 0.5 mi southeast of intersection of State Highways 693 and 706, and 2.3 mi northwest of Oak Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 36 ft, screened 26 to 36 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. July 20, 1995 to Mar. 9, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Feb. 29, 1988; 0.35 ft Mar. 1, 1988 to July 21, 2003, top of recorder shelf, 1.57 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.43 ft below land-surface datum, Apr. 14 and Aug. 17, 2004; lowest measured, 11.34 ft below land-surface datum, Nov. 6, 1981.

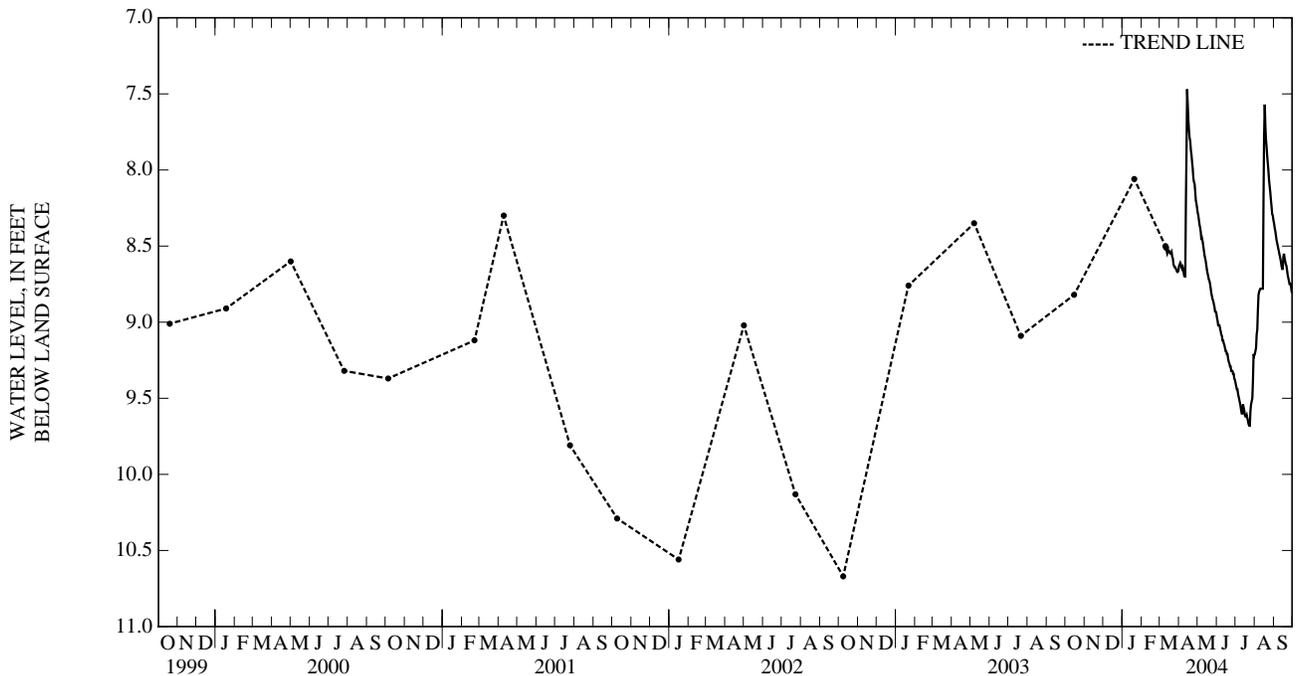
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 7.43 ft below land-surface datum, Apr. 14 and Aug. 17; lowest instantaneous water level, 9.68 ft below land-surface datum, July 23.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	8.64	8.38	9.02	9.47	9.05	8.46
10	---	---	---	---	---	8.50	8.70	8.50	9.12	9.58	8.78	8.56
15	---	---	---	---	---	8.53	7.57	8.63	9.19	9.58	8.20	8.65
20	---	---	---	---	---	8.54	7.87	8.73	9.26	9.63	7.85	8.62
25	---	---	---	---	---	8.64	8.08	8.85	9.32	9.58	8.11	8.73
EOM	---	---	---	---	---	8.66	8.25	8.94	9.38	9.22	8.33	8.81

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	8.82	JAN 20	8.06	APR 27	8.11	JUL 21	9.59
WATER YEAR 2004 HIGHEST		8.06 JAN 20, 2004		LOWEST		9.59 JUL 21, 2004	



ACCOMACK COUNTY—Continued

375610075361801. Local number, 66M 23 SOW 181A.

LOCATION.--Lat 37°56'10", long 75°36'17", NAD83, Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 1,300 ft, screened 1,290 to 1,300 ft.

INSTRUMENTATION.--Occasional measurement with manometer or chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with manometer or chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

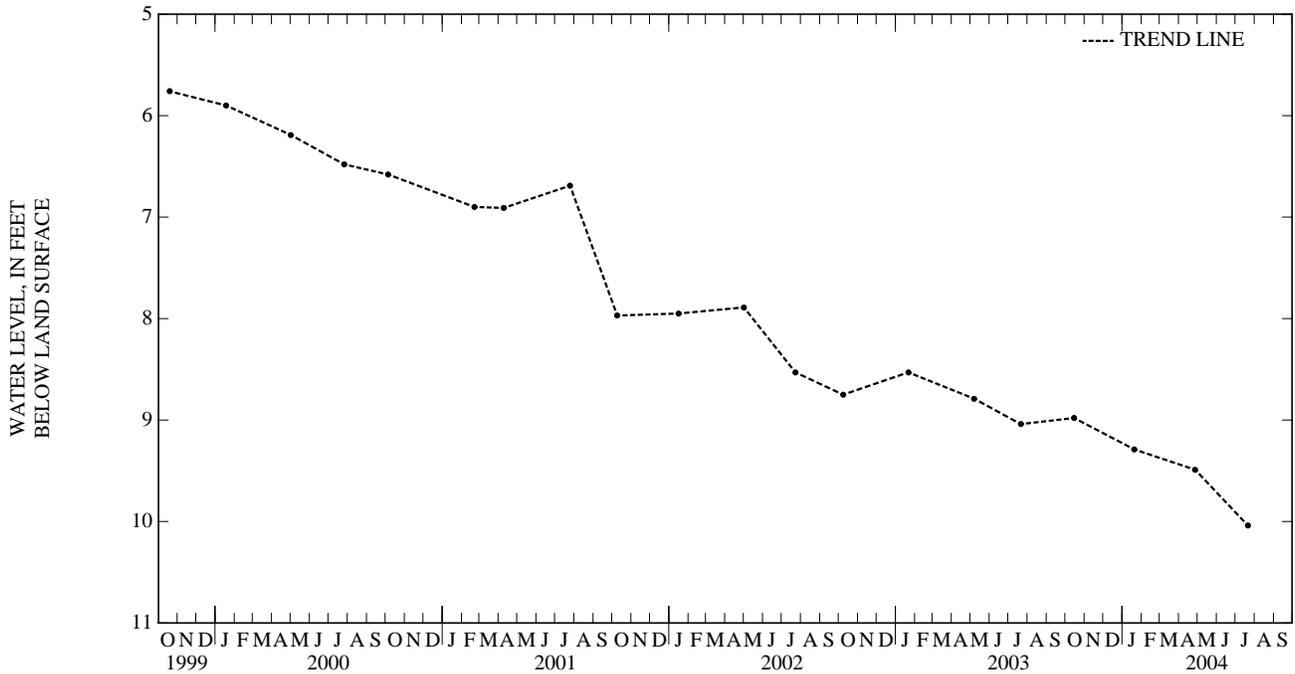
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional pumpage. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.38 ft above land-surface datum, Jan. 26, 1988; lowest measured, 10.04 ft below land-surface datum, July 21, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	8.98	JAN 20	9.29	APR 27	9.49	JUL 21	10.04
WATER YEAR 2004 HIGHEST 8.98		OCT 15, 2003 LOWEST 10.04					



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

375610075361802. Local number, 66M 24 SOW 181B.

LOCATION.--Lat 37°56'10", long 75°36'17", NAD83, Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--St. Marys-Choptank aquifer of Miocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 508 ft, screened 498 to 508 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

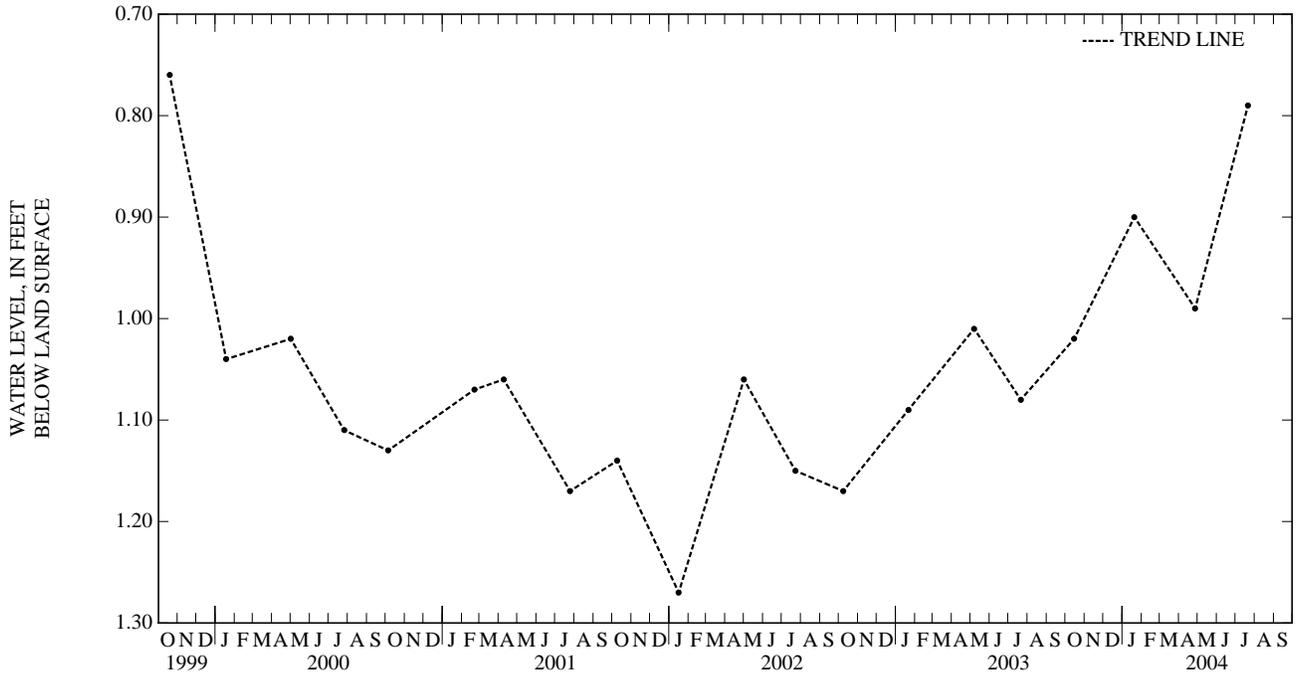
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft below land-surface datum, Mar. 7, 1989; lowest measured, 1.27 ft below land-surface datum, Jan. 16, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	1.02	JAN 20	.90	APR 27	.99	JUL 21	.79
WATER YEAR 2004 HIGHEST		.79 JUL 21, 2004		LOWEST		1.02 OCT 15, 2003	



ACCOMACK COUNTY—Continued

375610075361803. Local number, 66M 25 SOW 181C.

LOCATION.--Lat 37°56'10", long 75°36'17", NAD83, Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 340 ft, screened 330 to 340 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.95 ft above land-surface datum.

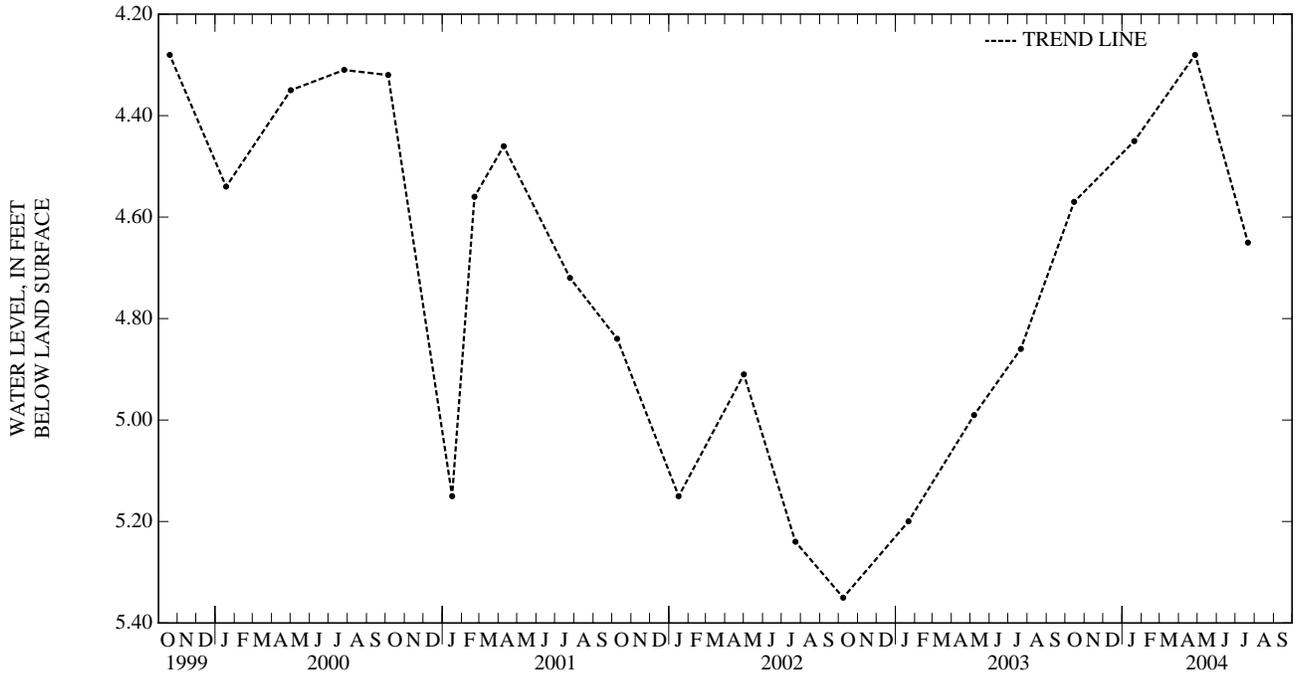
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft below land-surface datum, Apr. 28, 1993; lowest measured, 5.35 ft below land-surface datum, Oct. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	4.57	JAN 20	4.45	APR 27	4.28	JUL 21	4.65
WATER YEAR 2004 HIGHEST		4.28	APR 27, 2004 LOWEST		4.65	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

375610075361804. Local number, 66M 26 SOW 181D.

LOCATION.--Lat 37°56'10", long 75°36'17", NAD83, Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 230 ft, screened 220 to 230 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

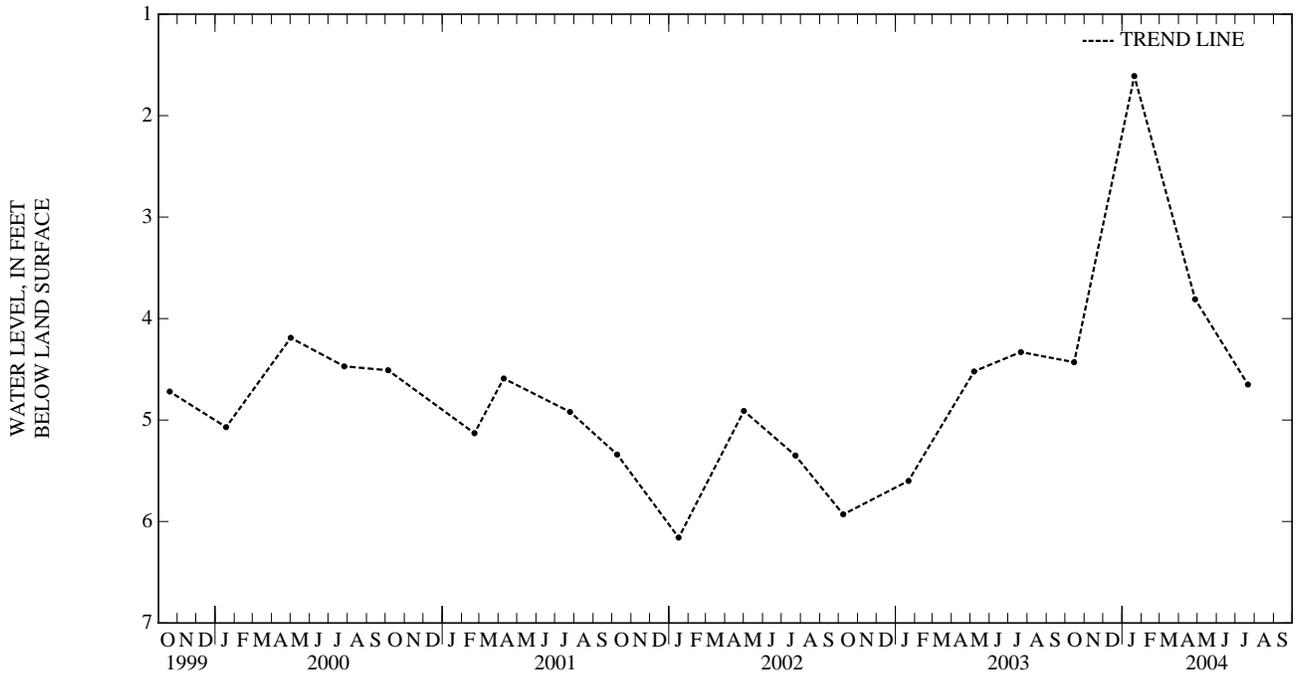
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.61 ft below land-surface datum, Jan. 20, 2004; lowest measured, 6.16 ft below land-surface datum, Jan. 16, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	4.43	JAN 20	1.61	APR 27	3.81	JUL 21	4.65
WATER YEAR 2004 HIGHEST		1.61	JAN 20, 2004 LOWEST		4.65	JUL 21, 2004	



ACCOMACK COUNTY—Continued

375610075361805. Local number, 66M 27 SOW 181E.

LOCATION.--Lat 37°56'10", long 75°36'17", NAD83, Hydrologic Unit 02080109, 100 ft south of State Highway 703, 0.1 mi east of intersection of State Highways 701 and 703, and 2.7 mi northwest of Makemie Park. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 30 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

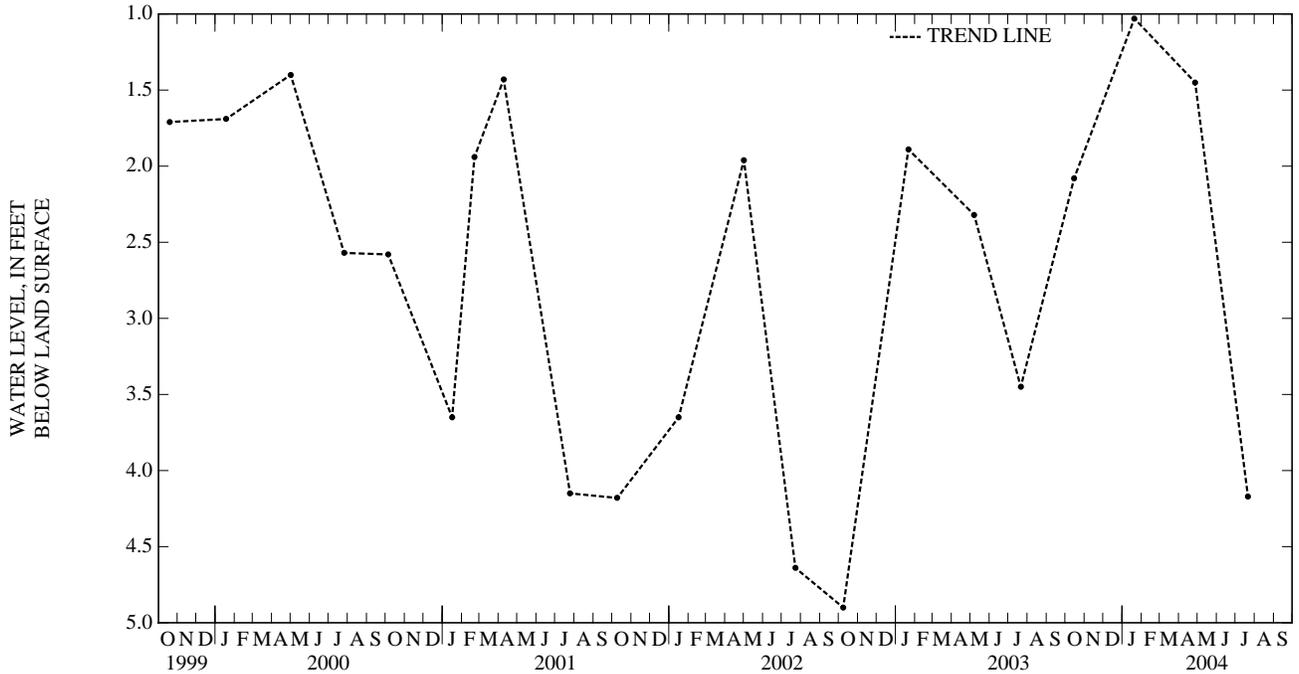
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.50 ft below land-surface datum, Aug. 8, 1989; lowest measured, 5.03 ft below land-surface datum, Oct. 10, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	2.08	JAN 20	1.03	APR 27	1.45	JUL 21	4.17
WATER YEAR 2004 HIGHEST		1.03	JAN 20, 2004 LOWEST		4.17	JUL 21, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

375635075271501. Local number, 67M 10 SOW 115A.

LOCATION.--Lat 37°56'35", long 75°27'14", NAD83, Hydrologic Unit 02060010, 200 ft east of State Highway 175, 2.4 mi east of Wattsville, and 2.5 mi northeast of intersection of State Highways 175 and 798. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 52 ft, screened 32 to 52 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 20, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum prior to Feb. 28, 1988; 1.7 ft thereafter.

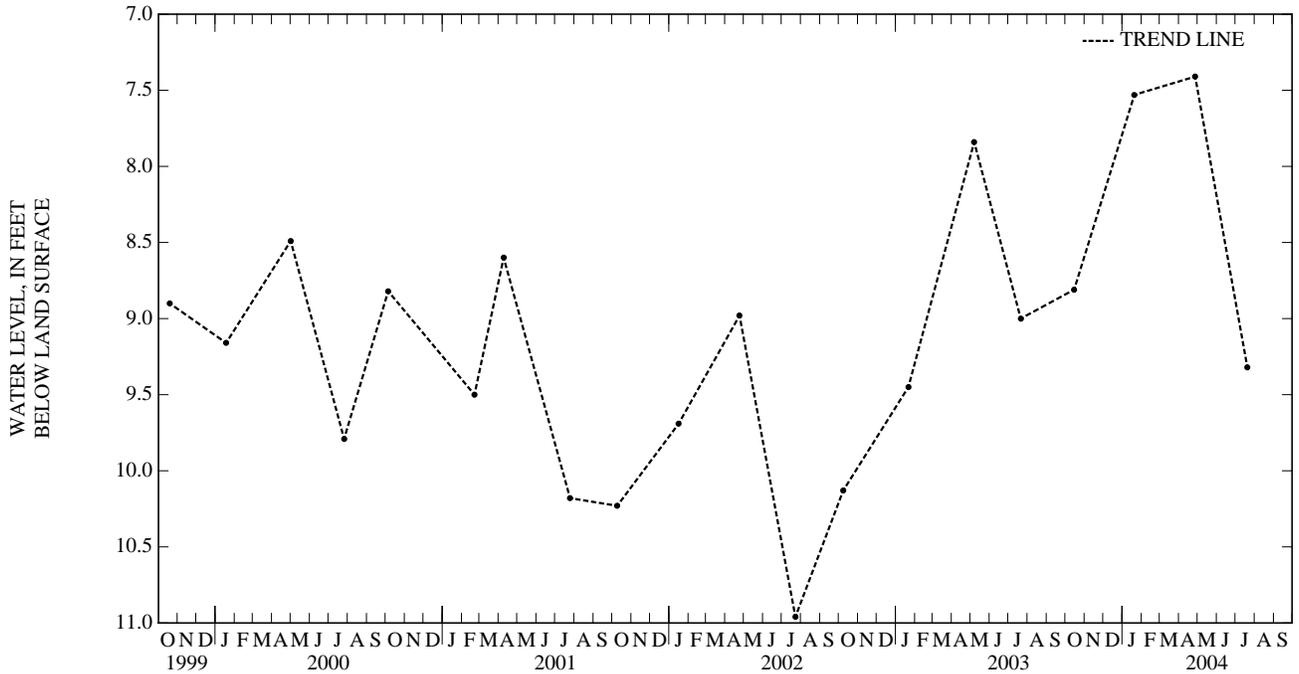
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division

PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.72 ft below land-surface datum, Oct. 3, 1989; lowest measured, 10.96 ft below land-surface datum, July 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	8.81	JAN 20	7.53	APR 27	7.41	JUL 20	9.32
WATER YEAR 2004 HIGHEST		7.41	APR 27, 2004 LOWEST		9.32	JUL 20, 2004	



ACCOMACK COUNTY—Continued

375635075271502. Local number, 67M 11 SOW 115B.

LOCATION.--Lat 37°56'35", long 75°27'14", NAD83, Hydrologic Unit 02060010, 200 ft east of State Highway 175, 2.4 mi east of Wattsville, and 2.5 mi northeast of intersection of State Highways 175 and 798. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 138 ft, screened 118 to 138 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 14 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum prior to Feb. 29, 1988; 1.9 ft thereafter.

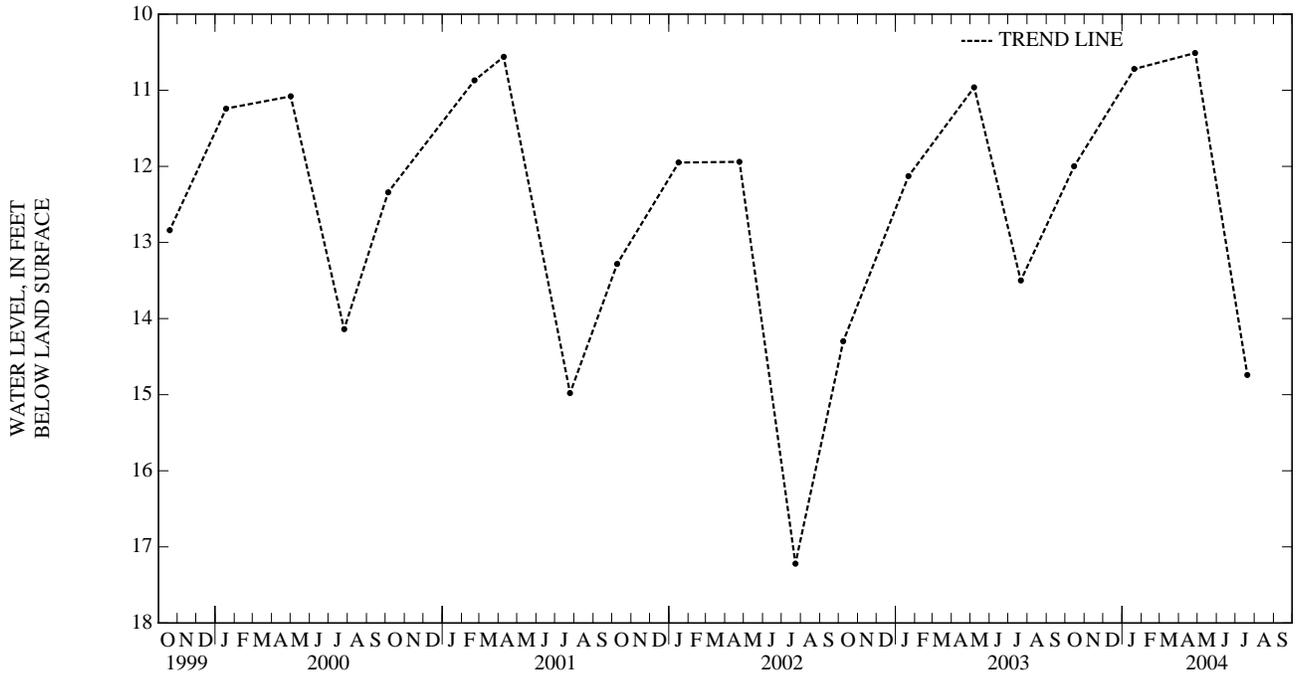
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.70 ft below land-surface datum, May 6, 1982; lowest measured, 17.22 ft below land-surface datum, July 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	12.00	JAN 20	10.72	APR 27	10.51	JUL 20	14.74
WATER YEAR 2004 HIGHEST		10.51	APR 27, 2004 LOWEST		14.74	JUL 20, 2004	



GROUND-WATER LEVELS
 ACCOMACK COUNTY—Continued

375635075271504. Local number, 67M 13 SOW 115D.

LOCATION.--Lat 37°56'35", long 75°27'14", NAD83, Hydrologic Unit 02060010, 50 ft east of State Highway 175, 2.4 mi east of Wattsville, and 2.6 mi northeast of intersection of State Highways 175 and 798. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 249 ft, screened 229 to 249 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Oct. 5, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 16 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.8 ft above land-surface datum prior to Aug. 8, 1989; 1.5 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water levels affected by local pumpage. Missing record due to recorder malfunction.

PERIOD OF RECORD.--March 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

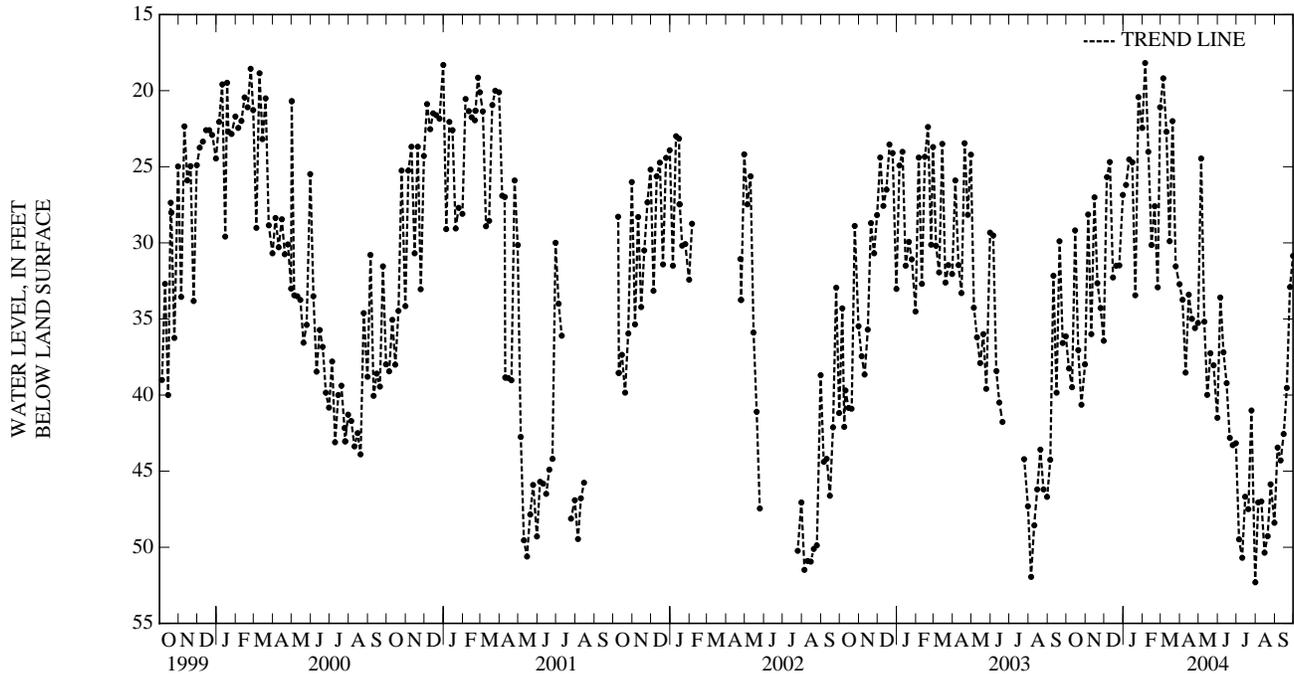
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 10.50 ft below land-surface datum, Jan. 22, 2000; lowest recorded, 53.19 ft below land-surface datum, May 14, 2001.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 17.03 ft below land-surface datum, Feb. 7; lowest instantaneous water level, 52.30 ft below land-surface datum, July 31.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.25	28.14	25.68	26.20	18.19	19.19	33.74	24.46	33.60	49.48	47.06	43.45
10	39.49	35.99	24.69	24.51	24.02	22.70	38.53	35.19	37.18	50.69	46.99	44.30
15	29.19	27.00	32.28	24.70	30.15	29.89	33.40	39.98	39.22	46.67	50.35	42.56
20	37.05	32.65	31.50	33.45	27.59	22.00	34.99	37.25	42.82	47.49	49.28	39.53
25	40.63	34.28	31.49	20.43	32.92	31.54	35.60	38.05	43.29	41.01	45.86	32.90
EOM	37.98	36.43	26.85	22.45	21.10	32.72	35.26	41.49	43.16	52.30	48.39	30.86

WATER YEAR 2004 HIGHEST 18.19 FEB 05, 2004 LOWEST 52.30 JUL 31, 2004



ALBEMARLE COUNTY

380333078264801. Local number, 43N 1 SOW 028.

LOCATION.--Lat 38°03'33", long 78°26'47", NAD83, Hydrologic Unit 02080204, at Key West Subdivision, 1.1 mi east of Charlottesville. Owner: Key West Development Corporation.

AQUIFER.--Lynchburg Formation of Precambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 409 ft, cased to 52 ft, open hole 52 to 409 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Apr. 10, 1981 to Oct. 19, 1995 continuous strip-chart recorder. June 25, 1974 to Apr. 10, 1981 occasional measurement with chalked tape; Prior to June 25, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 345 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.2 ft above land-surface datum.

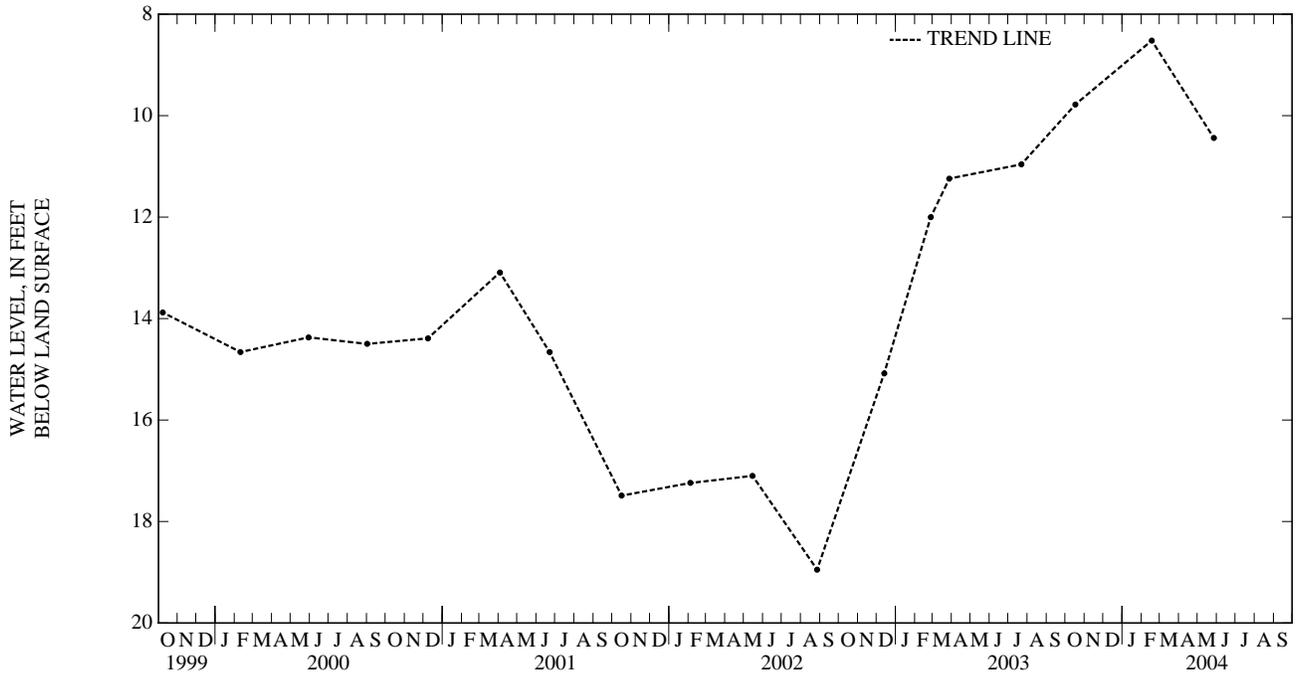
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.52 ft below land-surface datum, Feb. 17, 2004; lowest recorded, 22.10 ft below land-surface datum, Nov. 30, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	9.78	FEB 17	8.52	MAY 27	10.44
WATER YEAR 2004 HIGHEST 8.52 FEB 17, 2004 LOWEST 10.44 MAY 27, 2004					



GROUND-WATER LEVELS

APPOMATTOX COUNTY

372514078394301. Local number, 41H 2 SOW 012.

LOCATION.--Lat 37°25'15", long 78°39'42", NAD83, Hydrologic Unit 02080207, 1.0 mi south of intersection of State Highway 636 on the east side of State Highway 640, 2.8 mi southeast of Sliders. Owner: U.S. Geological Survey.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Augered observation water well, diameter 3 in. to 68 ft, diameter 1.25 in. from 68 to 73 ft, depth 73 ft, screened 68 to 73 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. August 1970 to October 1974, digital recorder, 60-minute punch. Prior to August 1970, occasional measurement with chalked tape.

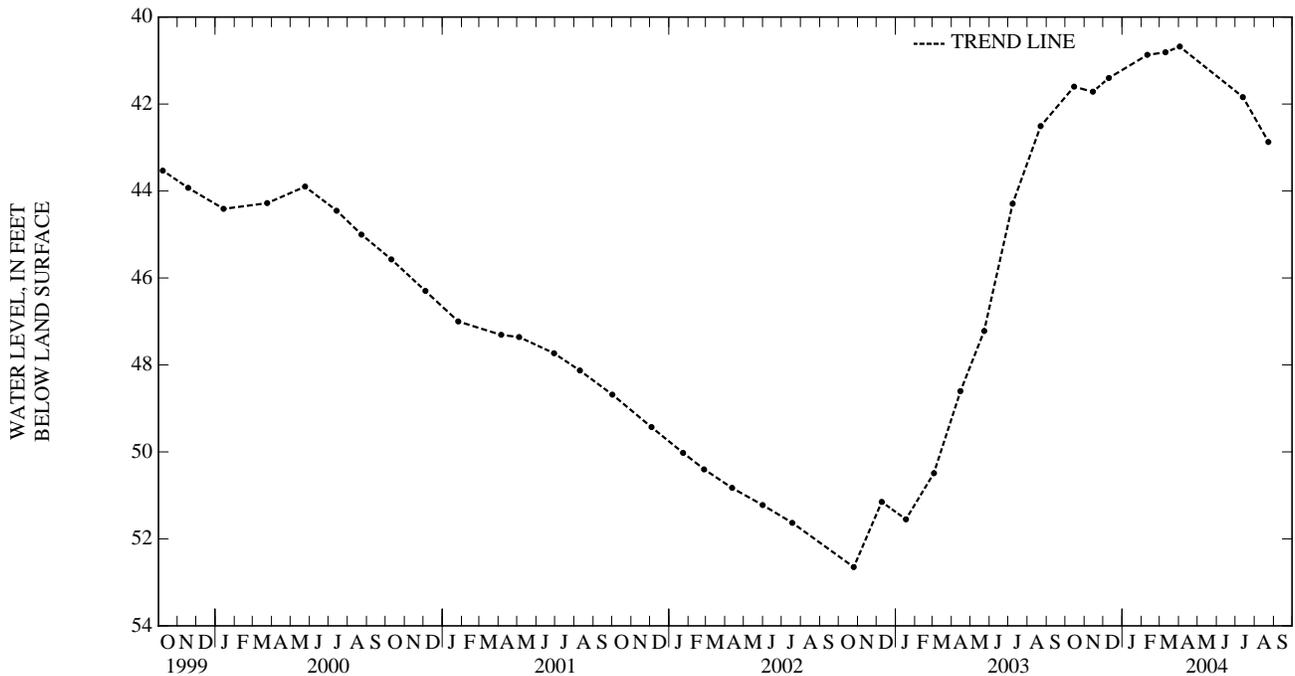
DATUM.--Elevation of land-surface datum is 640 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--March 1970 to current year. Unpublished records available prior to October 1977 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.56 ft below land-surface datum, May 11, 1998; lowest measured, 52.65 ft below land-surface datum, Oct. 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	41.60	DEC 10	41.40	MAR 10	40.81	JUL 13	41.84
NOV 14	41.72	FEB 10	40.87	APR 02	40.68	AUG 23	42.87
WATER YEAR 2004 HIGHEST 40.68 APR 02, 2004		LOWEST 42.87		AUG 23, 2004			



ARLINGTON COUNTY

385253077042301. Local number, 54V 3.

LOCATION.--Lat 38°52'53", long 77°04'22", NAD83, Hydrologic Unit 02070010, at Arlington National Cemetery in Arlington. Owner: National Park Service, National Capitol Parks.

AQUIFER.--Terrace gravels of Holocene age and sand of Early Cretaceous age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 48 in., depth 50 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Oct. 1, 1989 to Oct. 26, 1995, monthly measurement with chalked tape. Prior to Oct. 1, 1989, bimonthly measurement with chalked tape.

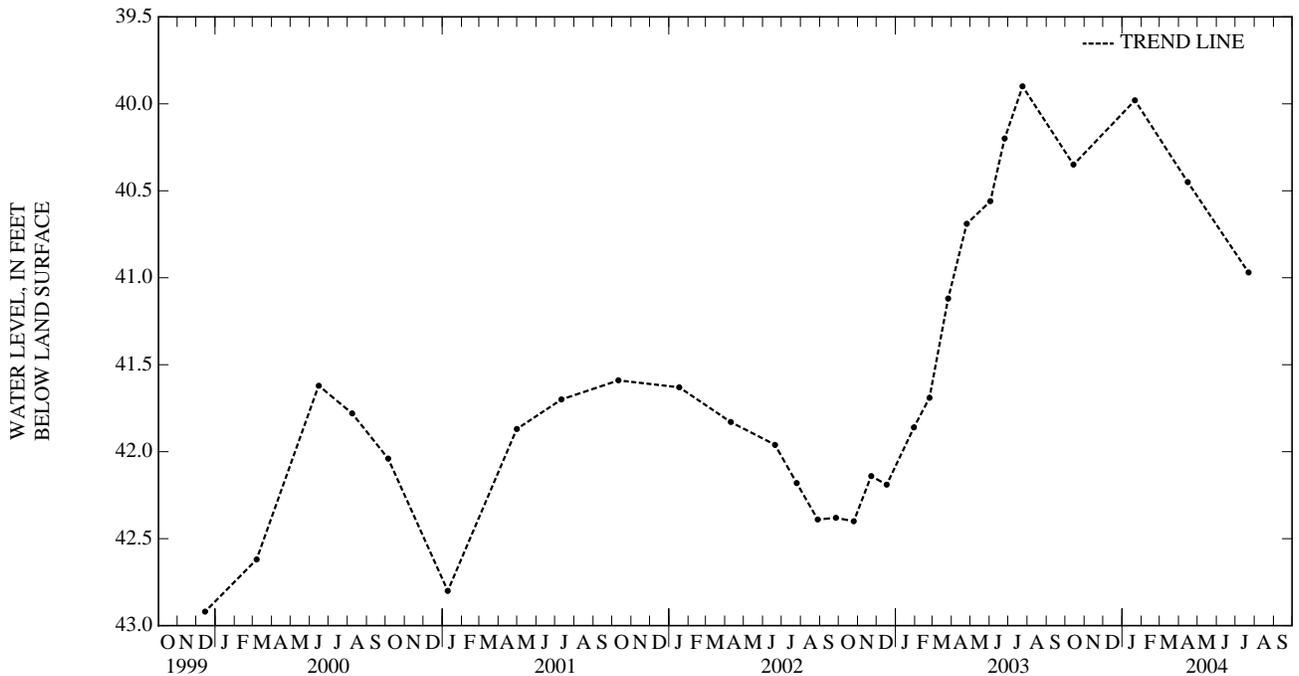
DATUM.--Elevation of land-surface datum is 205 ft above NGVD of 1929, from topographic map. Measuring point: Top of brick and stone casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.90 ft below land-surface datum, July 24, 2003; lowest measured, 45.28 ft below land-surface datum, Nov. 28, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	40.35	JAN 21	39.98	APR 15	40.45	JUL 22	40.97
WATER YEAR 2004 HIGHEST 39.98 JAN 21, 2004		LOWEST 40.97 JUL 22, 2004					



GROUND-WATER LEVELS

AUGUSTA COUNTY

382523078535501. Local number, 38P 1 SOW 070.

LOCATION.--Lat 38°07'49", long 79°04'06", NAD83, Hydrologic Unit 02070005, 100 ft east of State Highway 613, 0.5 mi south of intersection of State Highway 613 and U.S. Highway 11, and 0.9 mi south of Dogwood Hill. Owner: Augusta County Water Authority.

AQUIFER.--Beekmantown Group of Early Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in. to 30 ft, diameter 6 in. from 30 to 97 ft, depth 250 ft, open hole from 97 to 250 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Jan. 10, 1974, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 1,490 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction.

PERIOD OF RECORD.--December 1973 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

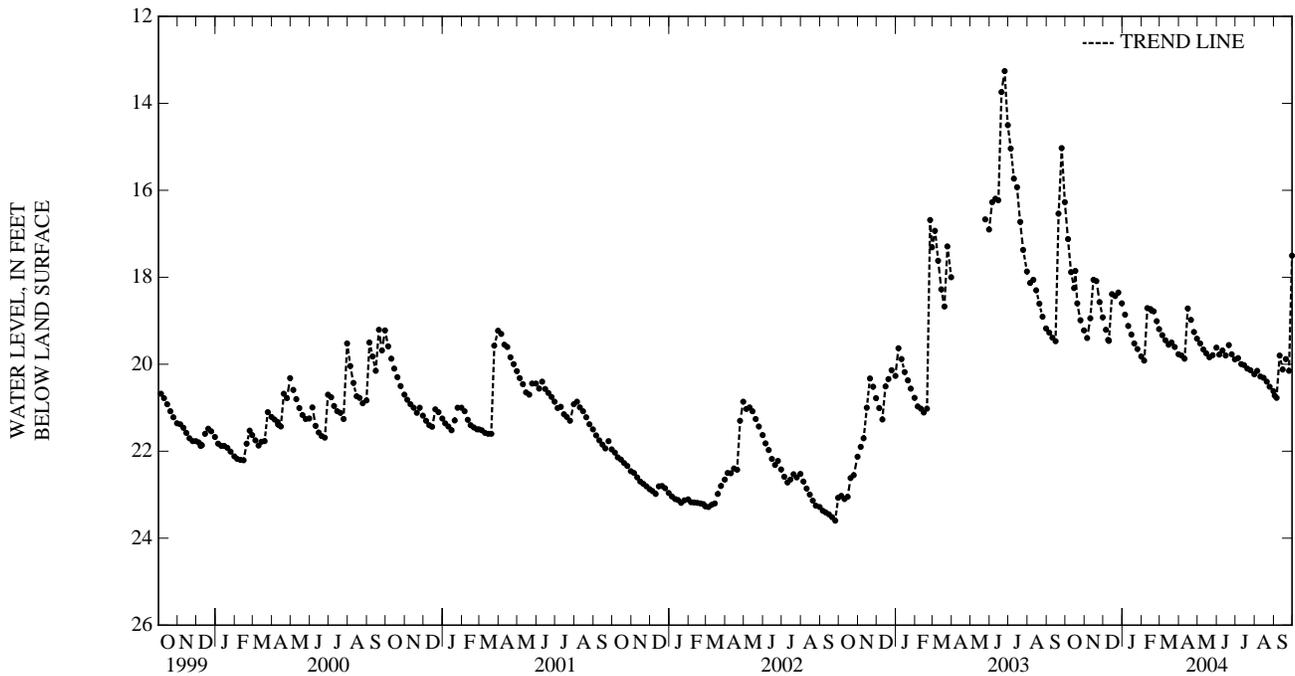
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.02 ft below land-surface datum, Feb. 20, 1998; lowest recorded, 27.02 ft below land-surface datum, Oct. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 16.26 ft below land-surface datum, Oct. 1; lowest instantaneous water level, 20.77 ft below land-surface datum, Sept. 5-7.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.12	19.40	19.21	18.86	19.92	19.33	19.80	19.52	19.78	19.86	20.15	20.77
10	17.88	18.94	19.46	19.12	18.71	19.45	19.87	19.66	19.68	20.00	20.28	19.80
15	18.25	18.06	18.39	19.32	18.73	19.55	18.72	19.75	19.80	20.02	20.31	20.12
20	18.60	18.09	18.43	19.52	18.78	19.50	18.98	19.84	19.56	20.10	20.40	19.88
25	18.99	18.57	18.35	19.65	19.01	19.60	19.26	19.79	19.77	20.14	20.52	20.15
EOM	19.22	18.92	18.60	19.82	19.19	19.77	19.41	19.62	19.89	20.23	20.62	17.50

WATER YEAR 2004 HIGHEST 17.12 OCT 05, 2003 LOWEST 20.77 SEP 05, 2004



BUCKINGHAM COUNTY

372608078404601. Local number, 41H 3.

LOCATION.--Lat 37°26'09", long 78°40'45", NAD83, Hydrologic Unit 02080207, 0.85 mi west of Ranger Headquarters on south side of dirt road off State Highway 636, 1.5 mi south of Sliders. Owner: U.S. Geological Survey.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Augered observation water well, diameter 3 in. to 49 ft, diameter 1.25 in. from 49 to 54 ft, depth 54 ft, screened 49 to 54 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. October 1974 to June 12, 1998, occasional measurement with chalked tape by USGS personnel. August 1970 to October 1974, digital recorder 60-minute punch. Prior to August 1970, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 683.8 ft above NGVD of 1929. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Prior to Oct. 1, 1981, well was reported as being located in Appomattox County.

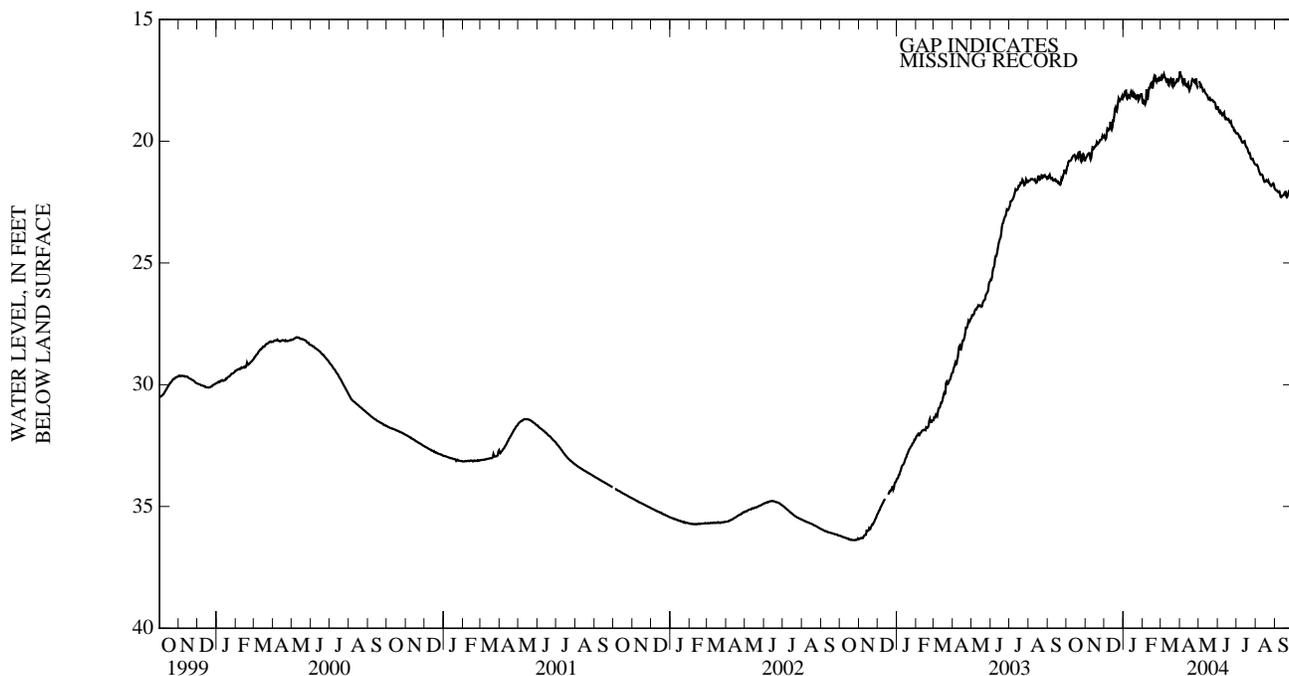
PERIOD OF RECORD.--March 1970 to current year. Unpublished records available prior to October 1977 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.31 ft below land-surface datum, Apr. 12, 1973; lowest recorded, 36.38 ft below land-surface datum, Oct. 21-25, 27, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 17.04 ft below land-surface datum, Apr. 1; lowest instantaneous water level, 22.30 ft below land-surface datum, Sept. 11, 20.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.81	20.52	19.62	17.92	18.47	17.32	17.56	17.71	18.77	19.79	21.10	22.07
10	20.68	20.67	19.45	18.18	18.01	17.56	17.71	17.90	18.84	20.05	21.36	22.29
15	20.62	20.26	19.15	18.00	17.60	17.53	17.83	18.12	19.06	20.12	21.67	22.21
20	20.66	20.07	18.75	18.24	17.29	17.75	17.51	18.32	19.23	20.44	21.65	22.30
25	20.84	19.94	18.28	18.32	17.44	17.61	17.60	18.38	19.42	20.74	21.83	21.99
EOM	20.79	19.84	18.23	18.27	17.49	17.34	17.72	18.60	19.67	20.95	21.91	21.97



GROUND-WATER LEVELS

CAROLINE COUNTY

380624077172801. Local number, 52N 5.

LOCATION.--Lat 38°06'24", long 77°17'27", NAD83, Hydrologic Unit 02080104, in block pumphouse under water tank at Camp Wilcox at Fort A. P. Hill, 1.1 mi north of U.S. Highway 301, and near Bowling Green. Owner: U.S. Department of the Army.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to unknown depth, diameter 4 in. from unknown depth to 524 ft, depth 524 ft, screened 468 to 501 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 210 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

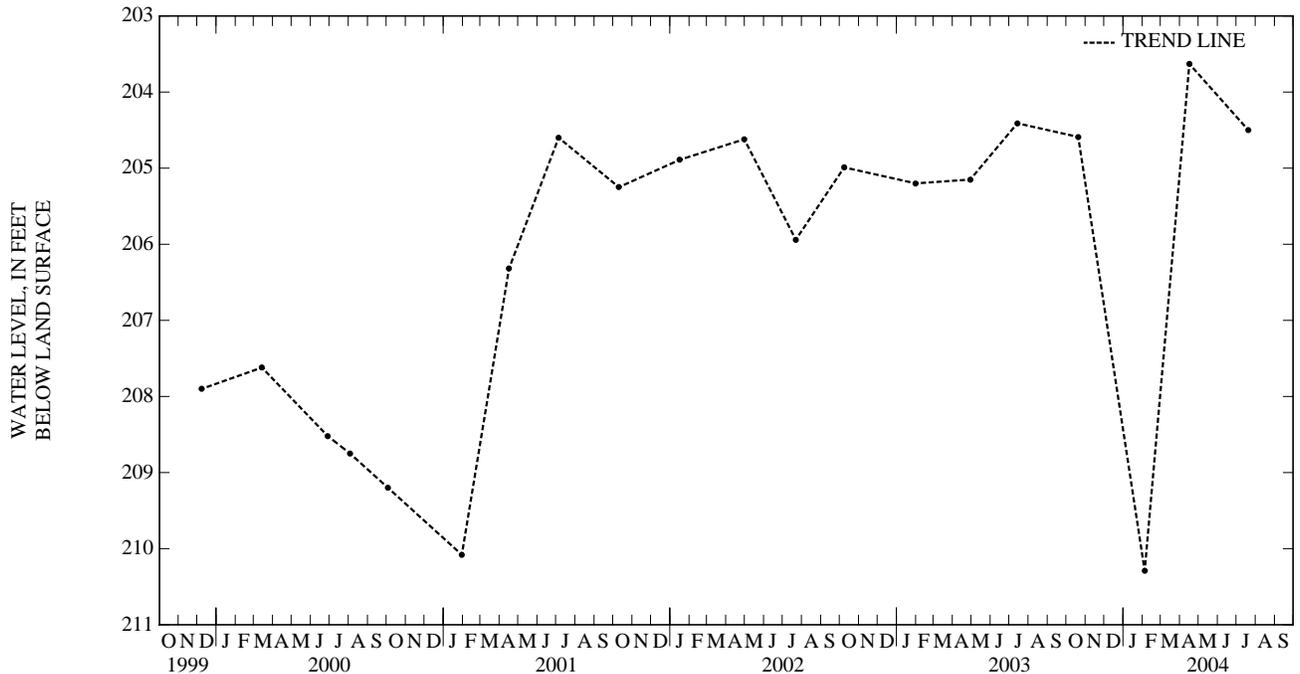
REMARKS.--Water level affected by regional drawdown. Water level of Feb. 4, 2004 may have been affected by pumpage.

PERIOD OF RECORD.--December 1971 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 172.20 ft below land-surface datum, Dec. 16, 1971; lowest measured, 210.29 ft below land-surface datum, Feb. 4, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	204.59	FEB 04	210.29	APR 16	203.63	JUL 20	204.50
WATER YEAR 2004 HIGHEST 203.63		APR 16, 2004		LOWEST 210.29		FEB 04, 2004	



CAROLINE COUNTY—Continued

380415077194101. Local number, 52N 6.

LOCATION.--Lat 38°04'15", long 77°19'40", NAD83, Hydrologic Unit 02080105, on the southwest corner of the intersection of Burke Street and Second Street in the headquarters area of Fort A. P. Hill near Bowling Green. Owner: U.S. Department of the Army.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 480 ft, diameter 3 in. from 446 to 500 ft, depth 500 ft, screened 488 to 498 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 214 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

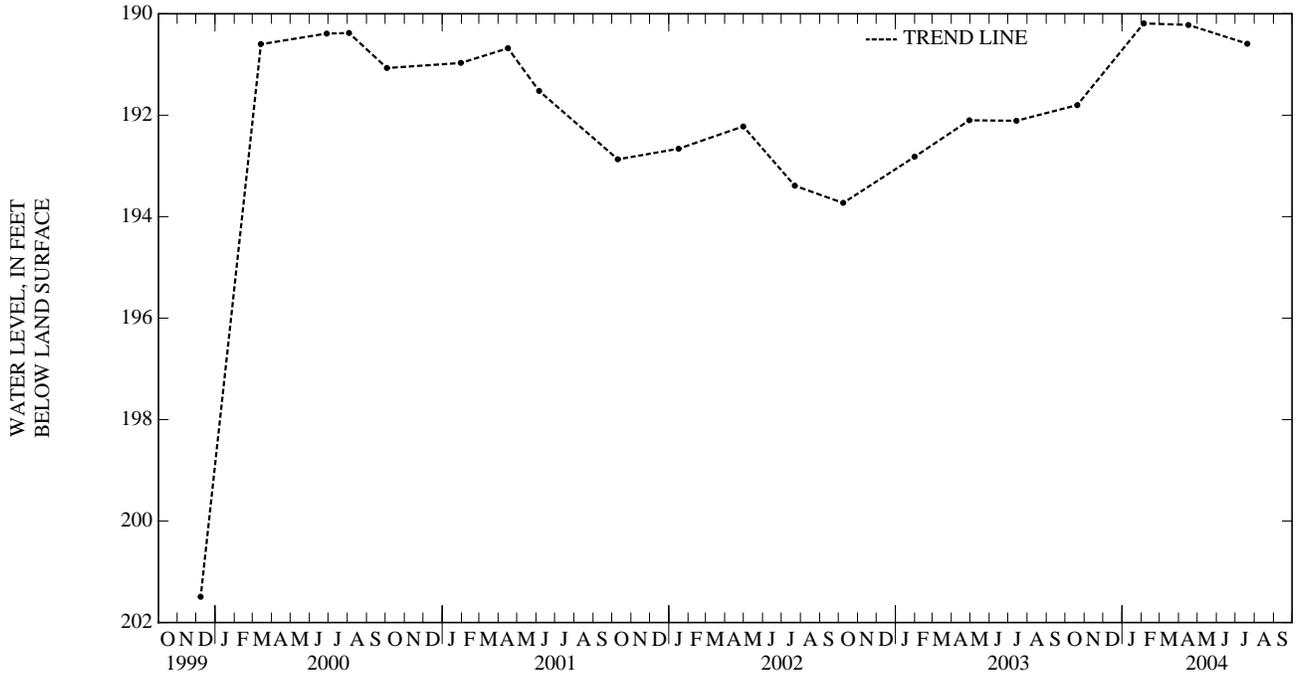
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1971 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 158.65 ft below land-surface datum, Feb. 10, 1982; lowest measured, 207.74 ft below land-surface datum, Mar. 19, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	191.80	FEB 04	190.19	APR 16	190.22	JUL 20	190.59
WATER YEAR 2004 HIGHEST 190.19 FEB 04, 2004		LOWEST 191.80		OCT 20, 2003			



GROUND-WATER LEVELS

CAROLINE COUNTY—Continued

375922077142901. Local number, 53M 1.

LOCATION.--Lat 37°59'22", long 77°14'28", NAD83, Hydrologic Unit 02080105, at Sparta Volunteer Fire Co., 200 ft south of State Highway 721 and 50 ft west of Maracossic Creek. Owner: U.S. Geological Survey.

AQUIFER.--Aquia aquifer of Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 110.75 ft, screened 100.75 ft to 110.75 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1998, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 89 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.75 ft above land-surface datum prior to Dec. 28, 1998; 1.44 ft thereafter.

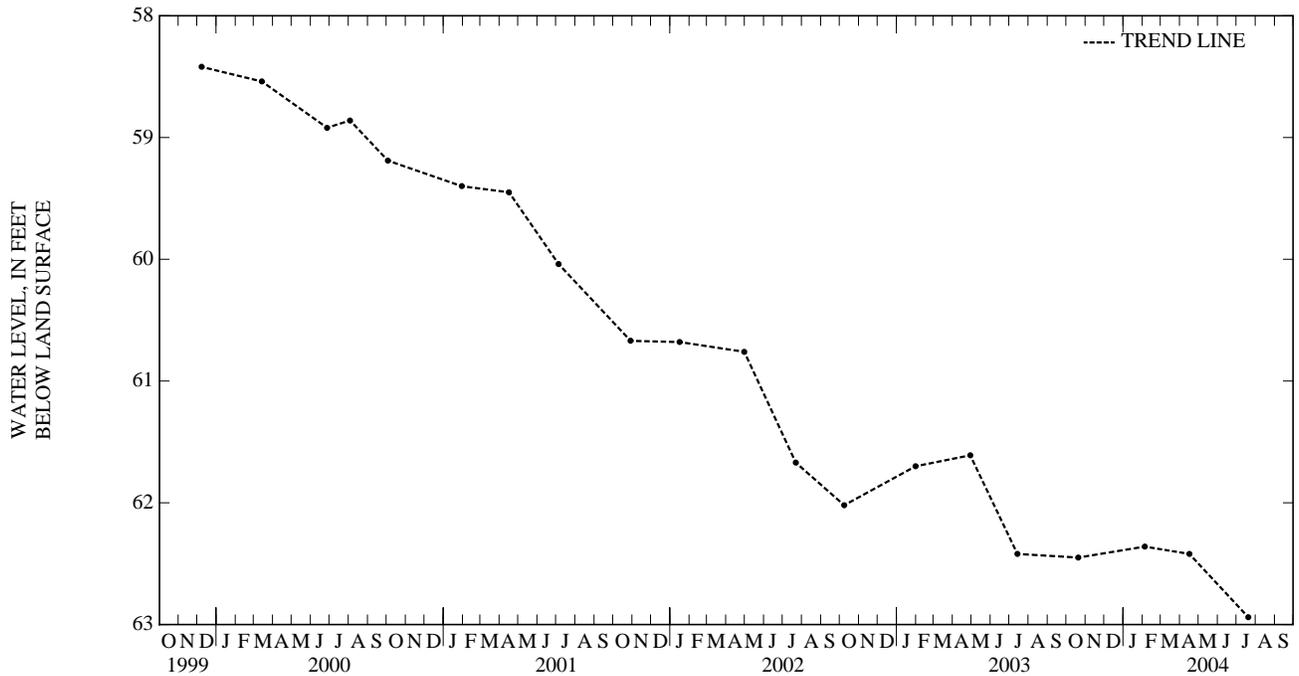
REMARKS.--Well drilled as part of Fall Zone ground-water study. Water level affected by regional drawdown.

PERIOD OF RECORD.--May 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.64 ft below land-surface datum, June 11, 1997; lowest measured, 62.94 ft below land-surface datum, July 20, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	62.45	FEB 04	62.36	APR 16	62.42	JUL 20	62.94
WATER YEAR 2004 HIGHEST		62.36	FEB 04, 2004 LOWEST		62.94	JUL 20, 2004	



CHARLES CITY COUNTY

371956076055101. Local number, 54G 13 SOW 067.

LOCATION.--Lat 37°19'57", long 77°05'50", NAD83, Hydrologic Unit 02080206, 0.6 mi east of Bowens Store on State Highway 5, 1.6 mi southwest of Charles City. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 227 ft, screened 222 to 227 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.4 ft above land-surface datum.

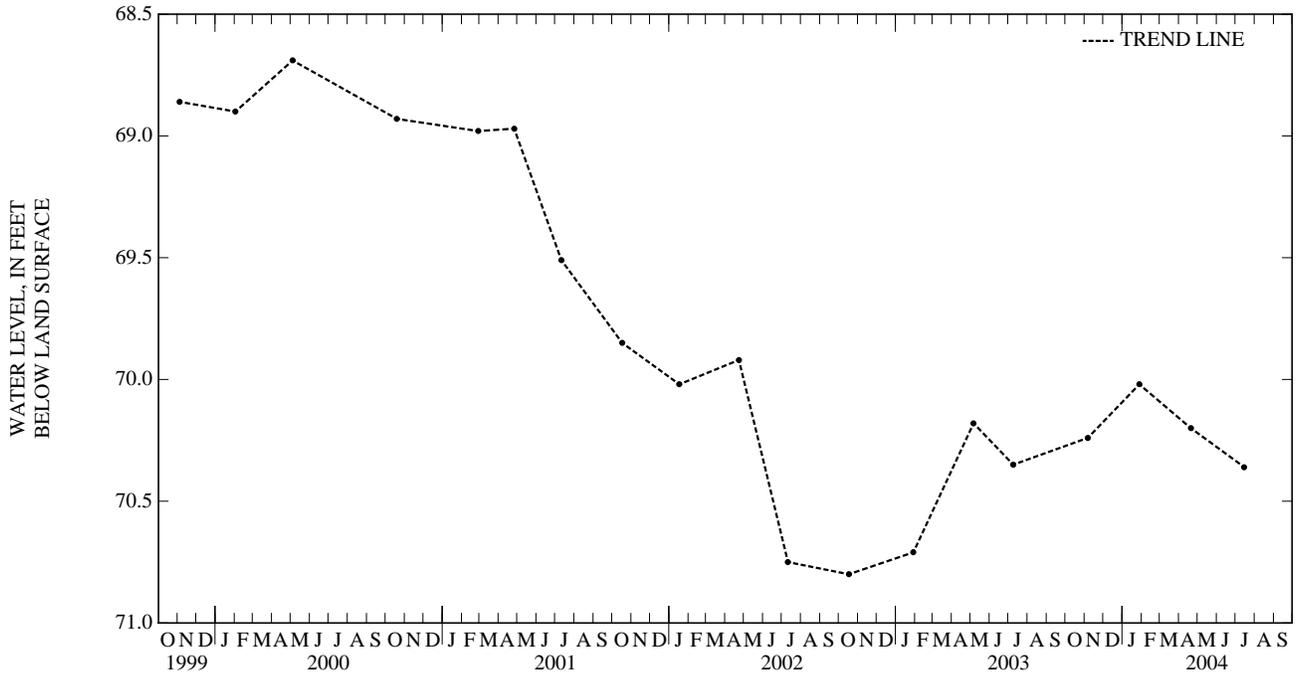
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1973 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.63 ft below land-surface datum, June 7, 1973; lowest measured, 70.80 ft below land-surface datum, Oct. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	70.24	JAN 28	70.02	APR 20	70.20	JUL 15	70.36
WATER YEAR 2004 HIGHEST		70.02	JAN 28, 2004 LOWEST		70.36	JUL 15, 2004	



GROUND-WATER LEVELS

CITY OF CHESAPEAKE

364852076252201. Local number, 59C 29 SOW 163A.

LOCATION.--Lat 36°48'53", long 76°25'21", NAD83, Hydrologic Unit 02080208, 0.7 mi southeast of intersection of State Highways 191 and 337 in Chesapeake. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 35 ft, screened 25 to 35 ft.

INSTRUMENTATION.--Biweekly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 21, 1985 to Oct. 9, 1996, bimonthly measurement with chalked tape. Prior to Aug. 21, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum, prior to Mar. 11, 1996; 2.45 ft Mar. 12, 1996 to May 28, 1998; 3.74 ft thereafter.

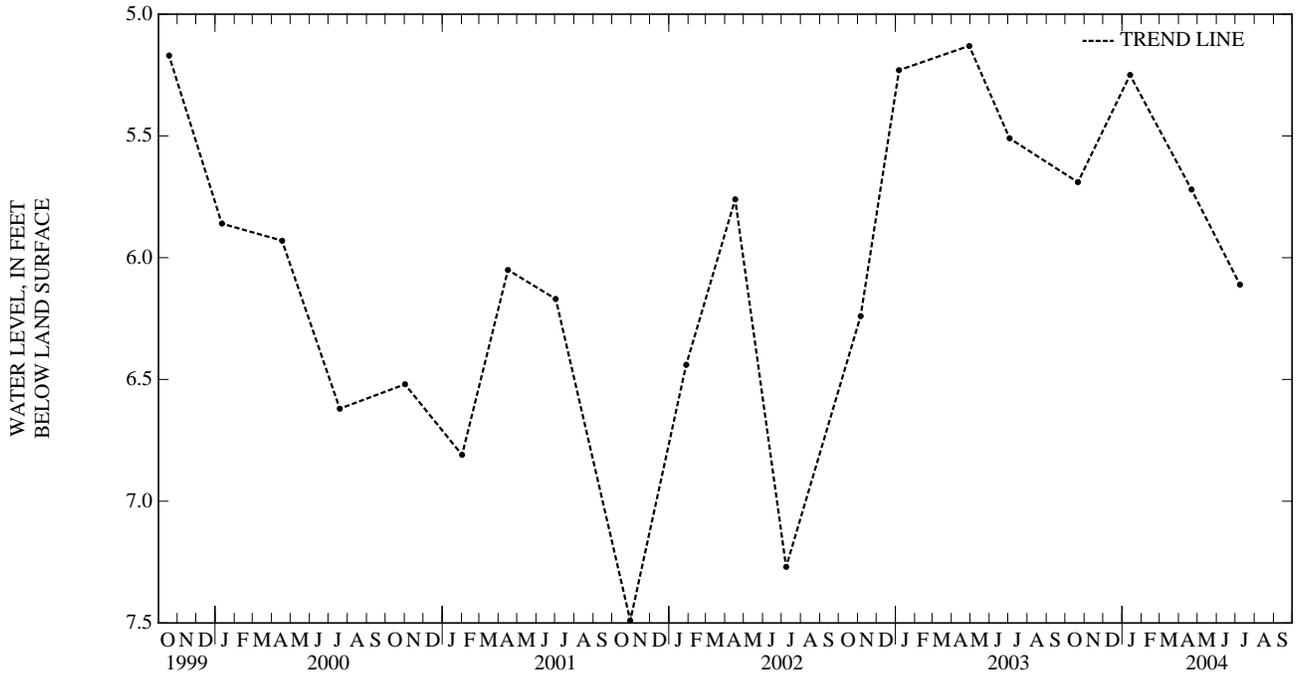
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--November 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.70 ft below land-surface datum, Mar. 14, 1989; lowest measured, 18.39 ft below land-surface datum, Nov. 5, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	5.69	JAN 13	5.25	APR 21	5.72	JUL 08	6.11
WATER YEAR 2004 HIGHEST		5.25	JAN 13, 2004 LOWEST		6.11	JUL 08, 2004	



CITY OF CHESAPEAKE—Continued

364852076252202. Local number, 59C 30 SOW 163B.

LOCATION.--Lat 36°48'53", long 76°25'21", NAD83, Hydrologic Unit 02080208, 0.7 mi southeast of intersection of State Highways 191 and 337 in Chesapeake. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 948 ft, screened 938 to 948 ft.

INSTRUMENTATION.--Biweekly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 21, 1985 to Oct. 9, 1996, bimonthly measurement with chalked tape. Prior to Aug. 21, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum, prior to Mar. 11, 1996; 2.47 ft thereafter.

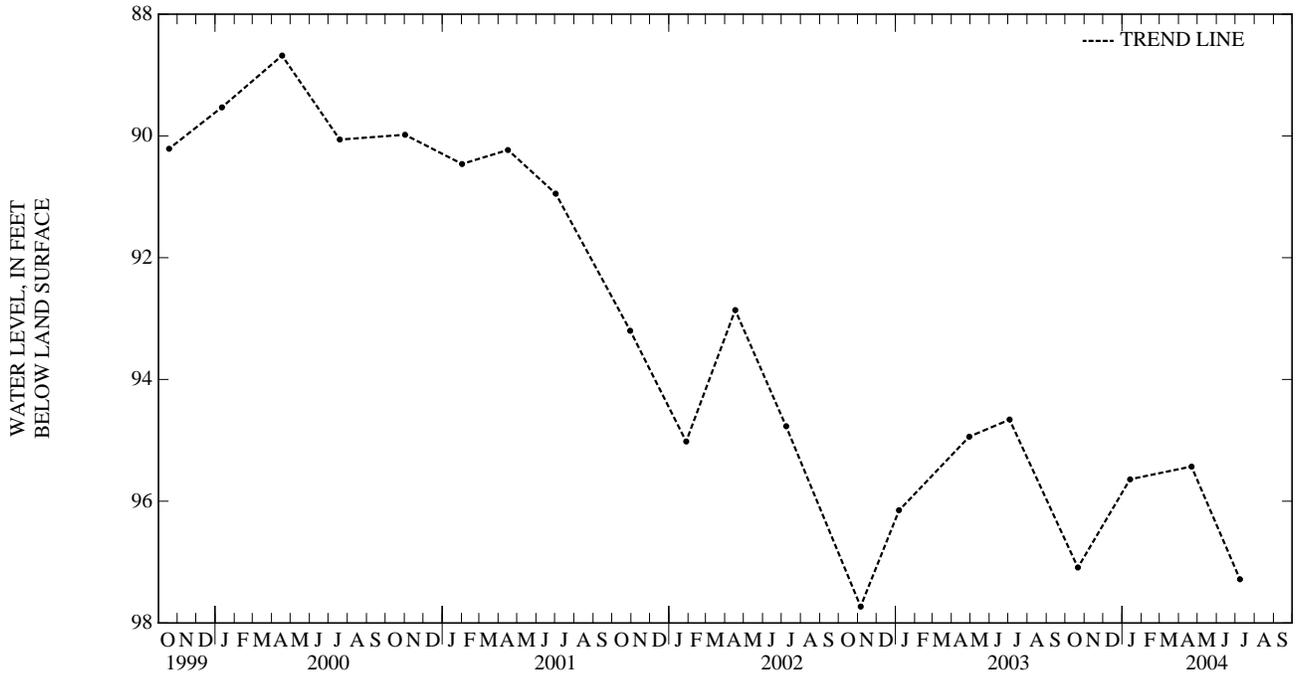
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--November 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.06 ft below land-surface datum, May 25, 1983; lowest measured, 97.73 ft below land-surface datum, Nov. 5, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	97.09	JAN 13	95.64	APR 21	95.43	JUL 08	97.28
WATER YEAR 2004 HIGHEST		95.43	APR 21, 2004 LOWEST		97.28	JUL 08, 2004	



GROUND-WATER LEVELS
CITY OF CHESAPEAKE—Continued

364852076252203. Local number, 59C 31 SOW 163C.

LOCATION.--Lat 36°48'53", long 76°25'21", NAD83, Hydrologic Unit 02080208, 0.7 mi southeast of intersection of State Highways 191 and 337 in Chesapeake. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 631 ft, screened 621 to 631 ft.

INSTRUMENTATION.--Biweekly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 21, 1985 to Oct. 9, 1996, bimonthly measurement with chalked tape. Prior to Aug. 21, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum, prior to Mar. 11, 1996; 2.88 ft thereafter.

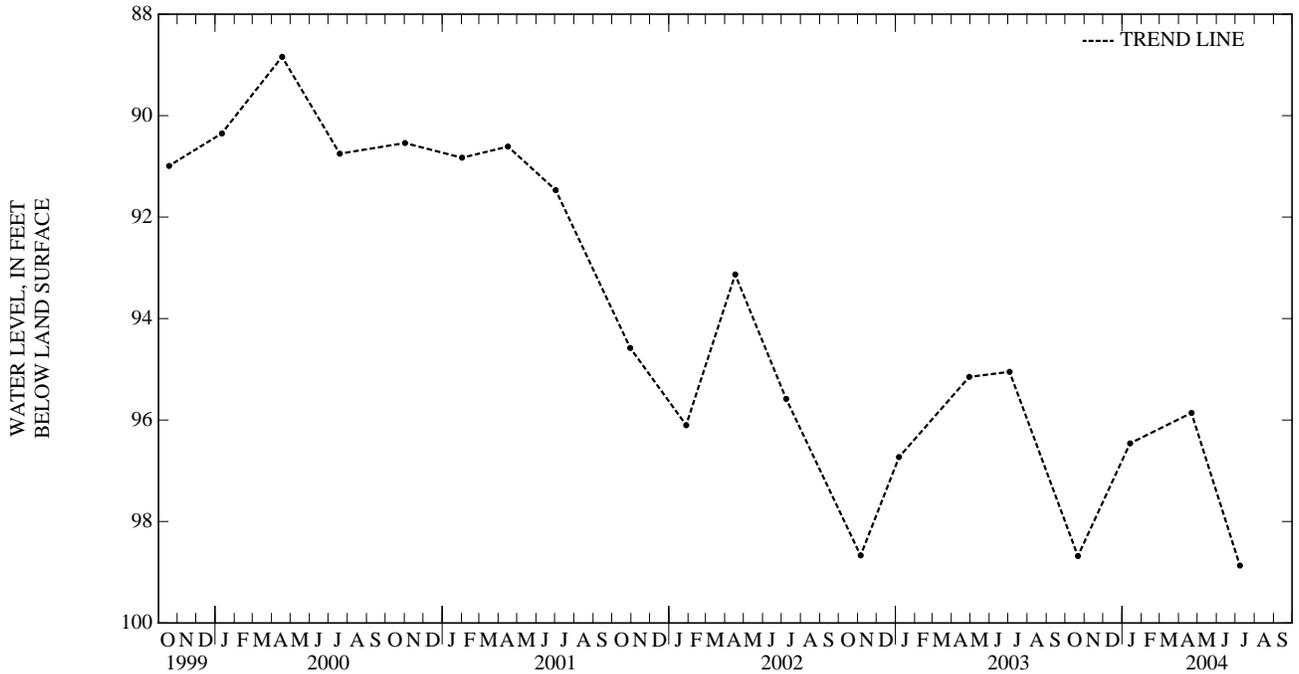
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--November 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.13 ft below land-surface datum, Feb. 23, 1983; lowest measured, 98.87 ft below land-surface datum, July 8, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	98.68	JAN 13	96.46	APR 21	95.86	JUL 08	98.87
WATER YEAR 2004 HIGHEST		95.86	APR 21, 2004 LOWEST		98.87	JUL 08, 2004	



CITY OF CHESAPEAKE—Continued

363836076201701. Local number, 60B 3 SOW 090A.

LOCATION.--Lat 36°38'37", long 76°20'16", NAD83, Hydrologic Unit 03010205, 0.15 mi north of intersection of Benefit and West Roads, 1.5 mi north of Cornland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 855 ft, screened 824 to 834 ft.

INSTRUMENTATION.-- Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 25, 1985 to Oct. 12, 1995, continuous strip-chart recorder. Prior to Aug. 25, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 16 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

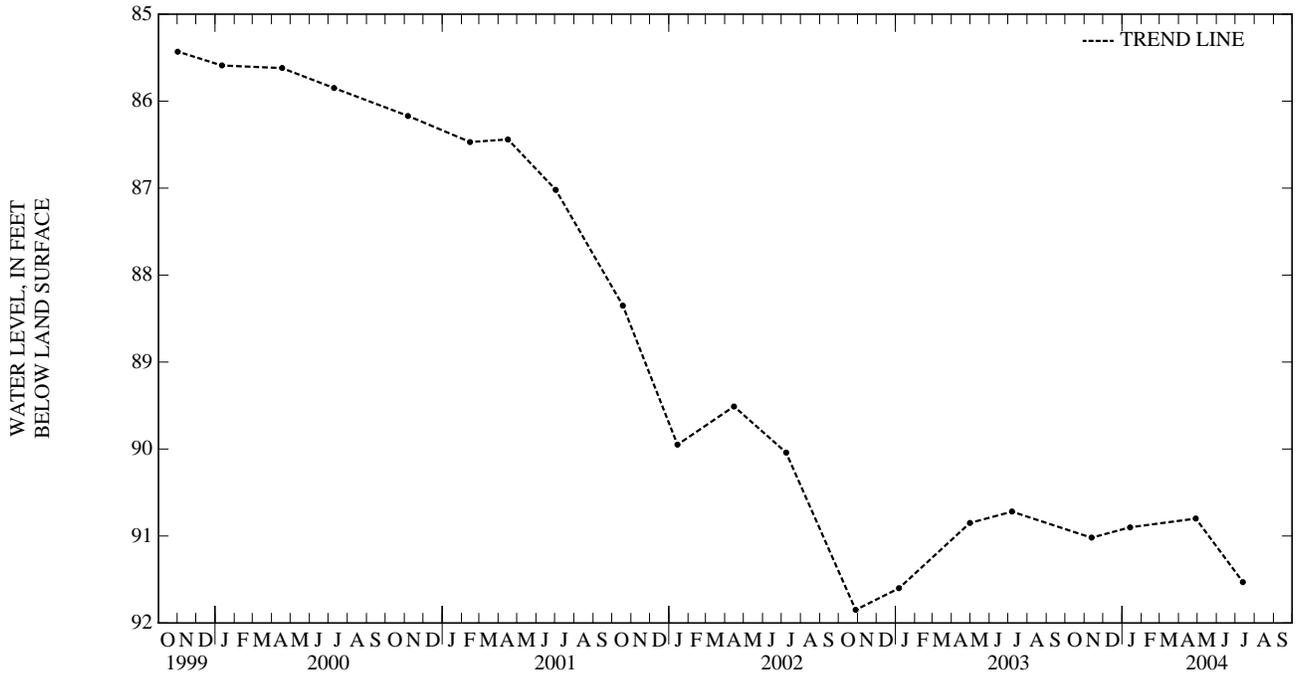
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.80 ft below land-surface datum, July 11, 1978; lowest recorded, 91.85 ft below land-surface datum, Oct. 28, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	91.02	JAN 13	90.90	APR 28	90.80	JUL 13	91.53
WATER YEAR 2004 HIGHEST		90.80	APR 28, 2004 LOWEST		91.53	JUL 13, 2004	



GROUND-WATER LEVELS
CITY OF CHESAPEAKE—Continued

363836076201702. Local number, 60B 4 SOW 090B.

LOCATION.--Lat 36°38'37", long 76°20'16", NAD83, Hydrologic Unit 03010205, 0.15 mi north of intersection of Benefit and West Roads, 1.5 mi north of Cornland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 556 ft, screened 525 to 535 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 6, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 16 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.05 ft above land-surface datum prior to Mar. 2, 1988; 1.2 ft thereafter.

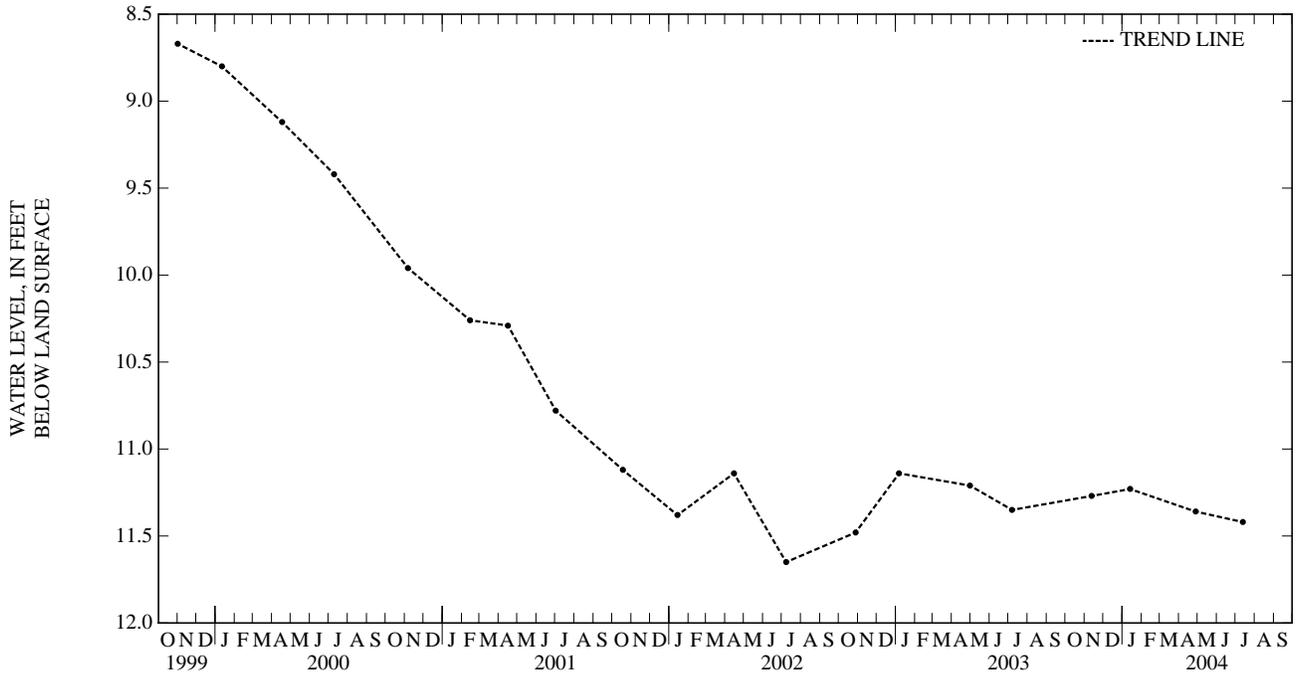
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--February 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.20 ft above land-surface datum, Feb. 1, 1978; lowest measured, 11.65 ft below land-surface datum, July 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	11.27	JAN 13	11.23	APR 28	11.36	JUL 13	11.42
WATER YEAR 2004 HIGHEST		11.23 JAN 13, 2004	LOWEST		11.42 JUL 13, 2004		



CITY OF CHESAPEAKE—Continued

364615076182101. Local number, 60C 41 SOW 164.

LOCATION.--Lat 36°46'16", long 76°18'20", NAD83, Hydrologic Unit 02080208, 50 ft north of entrance road to Virginia Power powerplant, 500 ft south of Military Highway in Chesapeake. Owner: Virginia Power.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 400 ft, diameter 4 in. from 400 to 928 ft, depth 928 ft, screened 770 to 780 ft, 875 to 885 ft, 918 to 928 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 25, 1982 to Oct. 12, 1995, continuous strip-chart recorder. Prior to Nov. 25, 1982, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum prior to July 15, 1987; 1.5 ft thereafter.

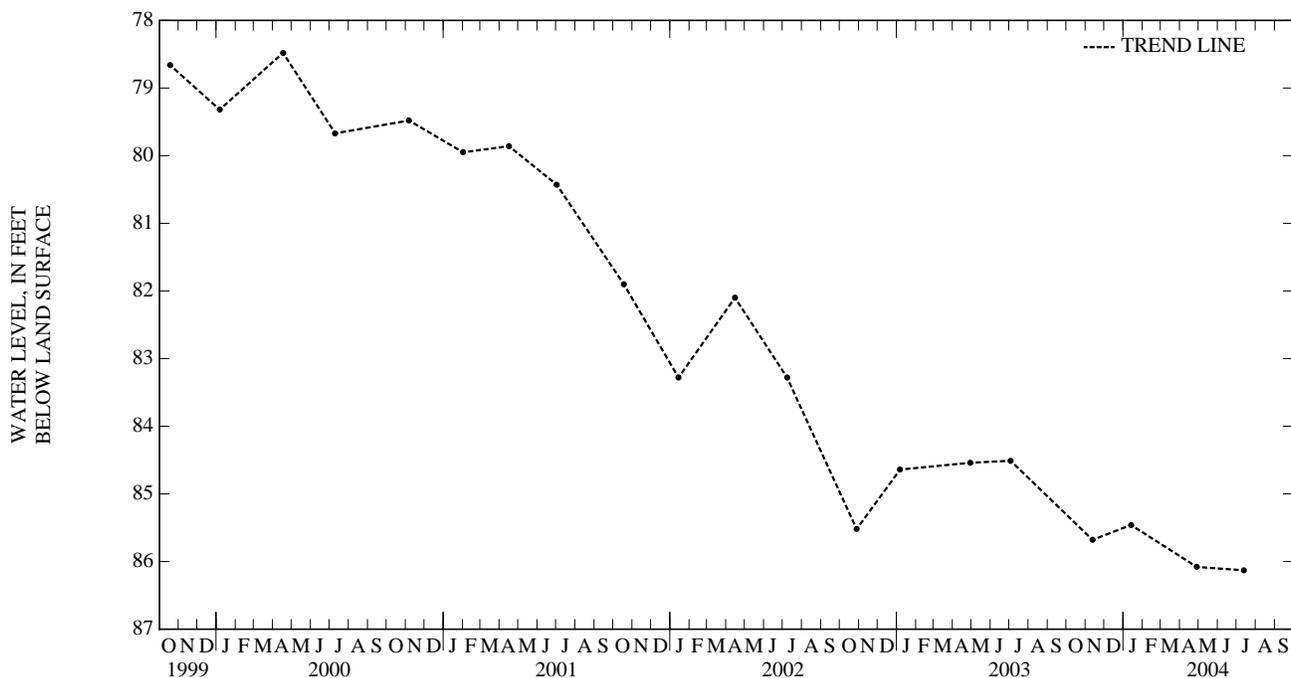
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--February 1982 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 55.22 ft below land-surface datum, Mar. 15, 1983; lowest recorded, 86.13 ft below land-surface datum, July 13, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	85.68	JAN 13	85.46	APR 28	86.08	JUL 13	86.13
WATER YEAR 2004 HIGHEST		85.46	JAN 13, 2004		LOWEST		86.13
						JUL 13, 2004	



GROUND-WATER LEVELS
CITY OF CHESAPEAKE—Continued

364227076074702. Local number, 61B 5 SOW 091B.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,060 ft, screened 1,040 to 1,060 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 6, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

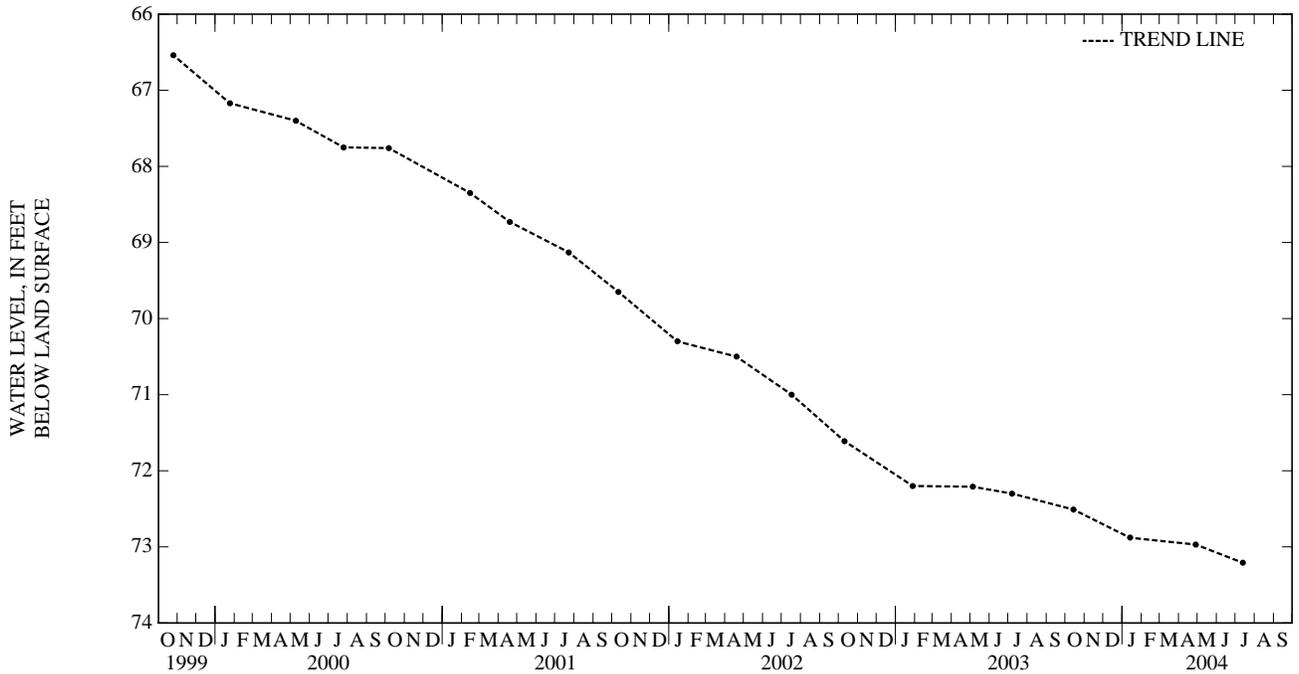
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.83 ft below land-surface datum, Aug. 28, 1980; lowest measured, 73.21 ft below land-surface datum, July 13, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	72.51	JAN 13	72.88	APR 28	72.97	JUL 13	73.21
WATER YEAR 2004 HIGHEST 72.51		OCT 14, 2003		LOWEST 73.21		JUL 13, 2004	



CITY OF CHESAPEAKE—Continued

364227076074703. Local number, 61B 6 SOW 091C.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 780 ft, screened 760 to 780 ft.

INSTRUMENTATION.--Occasional measurement with manometer or chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 6, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with manometer.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 7.0 ft above land-surface datum prior to Jan. 11, 1989; 1.2 ft thereafter.

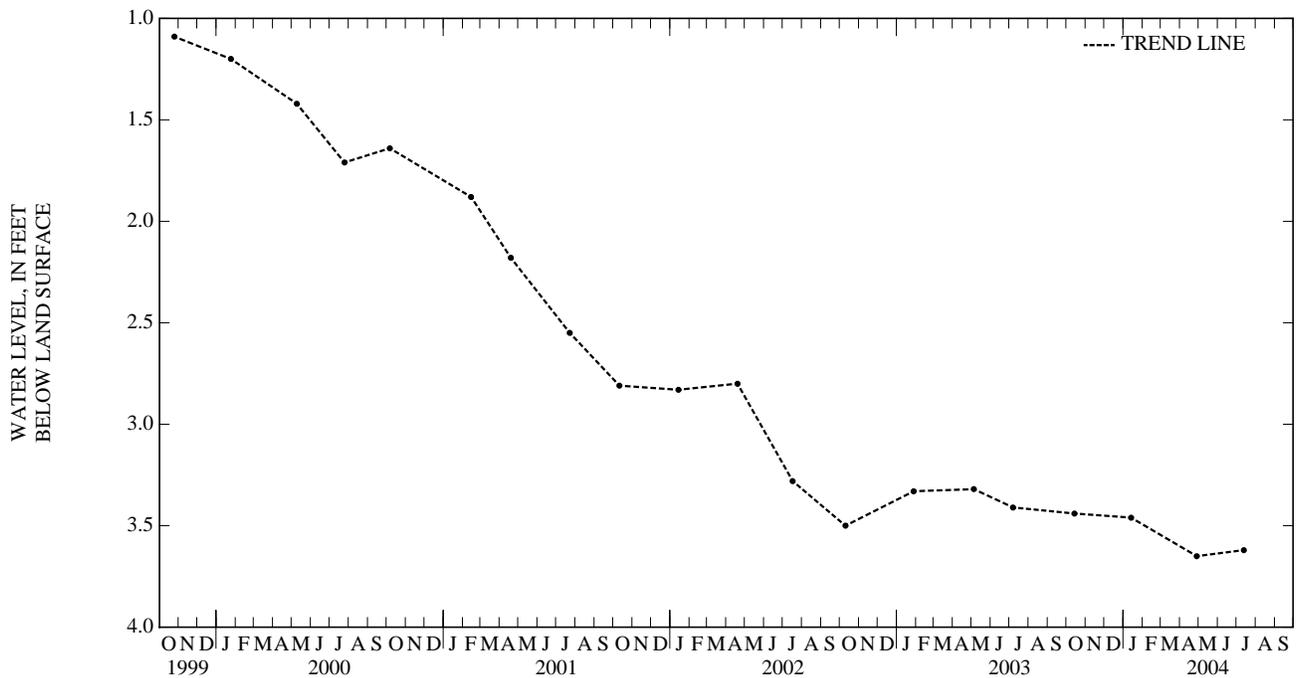
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.37 ft above land-surface datum, July 26, 1979; lowest measured, 3.65 ft below land-surface datum, Apr. 28, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	3.44	JAN 13	3.46	APR 28	3.65	JUL 13	3.62
WATER YEAR 2004 HIGHEST 3.44		OCT 14, 2003 LOWEST 3.65		APR 28, 2004			



GROUND-WATER LEVELS
CITY OF CHESAPEAKE—Continued

364227076074706. Local number, 61B 12 SOW 091E.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,630 ft, diameter 2 in. from 1,630 to 1,830 ft, depth 1,830 ft, screened 1,820 to 1,830 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

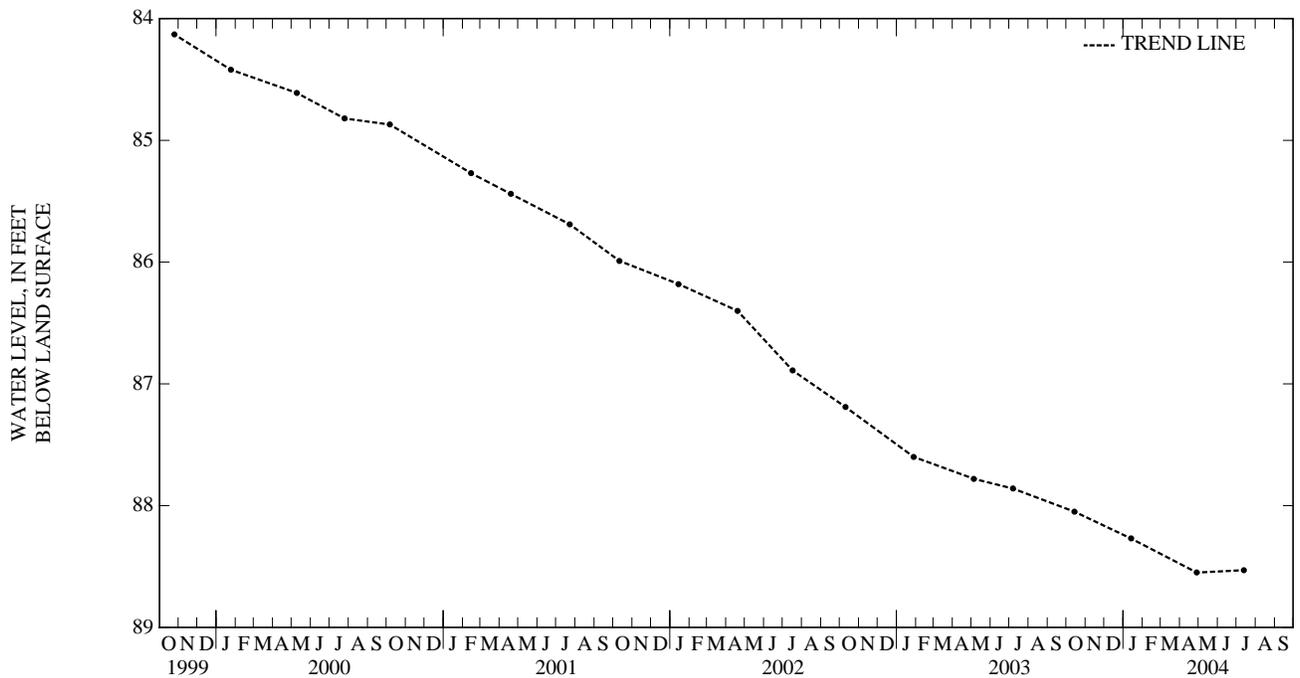
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Low water-level drawdown after April 1998 is the result of pumping of the well. Cause of nonrecovery to pre-pumpage level is unknown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.50 ft below land-surface datum, June 21, 1989; lowest measured, 88.55 ft below land-surface datum, Apr. 28, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	88.05	JAN 13	88.27	APR 28	88.55	JUL 13	88.53
WATER YEAR 2004 HIGHEST 88.05		OCT 14, 2003		LOWEST 88.55		APR 28, 2004	



CITY OF CHESAPEAKE—Continued

364227076074707. Local number, 61B 13 SOW 091F.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,270 ft, diameter 2 in. from 1,270 to 1,390 ft, depth 1,390 ft, screened 1,370 to 1,380 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. July 6, 1995 to Feb. 13, 1997, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L. Missing record due to recorder malfunction.

PERIOD OF RECORD.--March 1989 to current year.

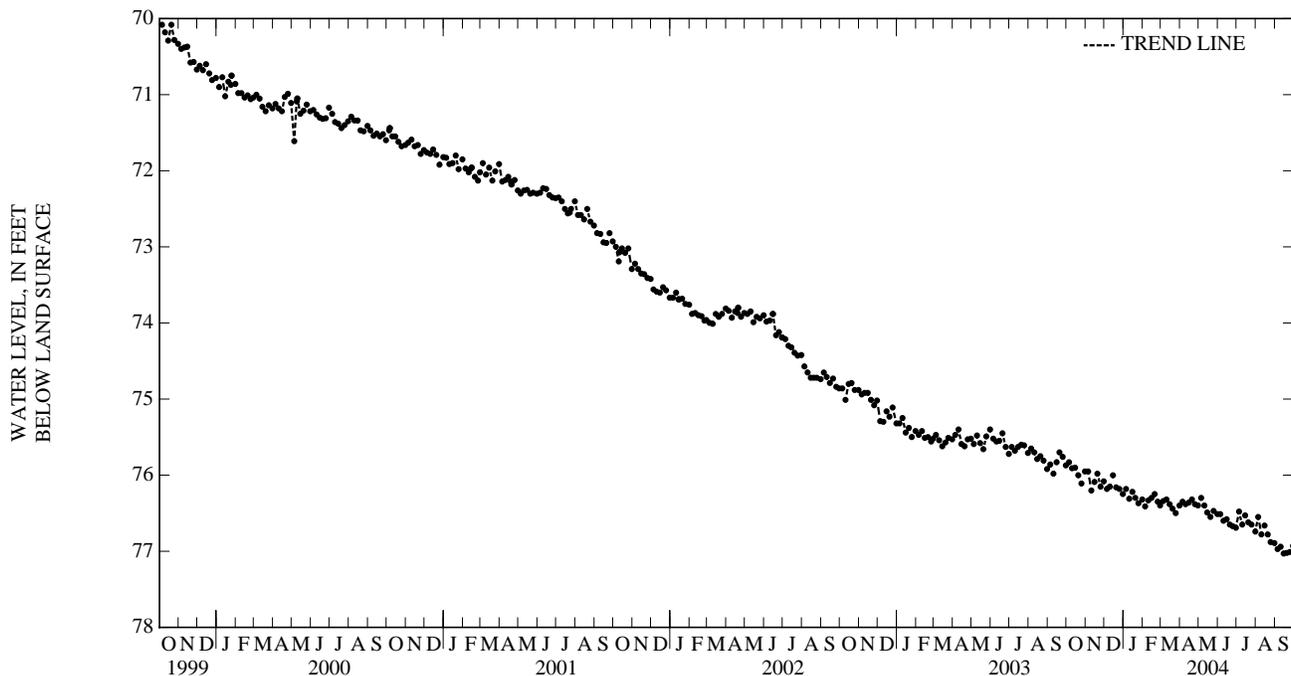
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.00 ft below land-surface datum, Aug. 10, 1989; lowest measured, 77.05 ft below land-surface datum, Sept. 14, 2004.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 75.72 ft below land-surface datum, Oct. 15; lowest instantaneous water level, 77.05 ft below land-surface datum, Sept. 14.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.83	75.95	76.18	76.18	76.41	76.34	76.35	76.30	76.51	76.48	76.55	76.97
10	75.91	76.20	76.15	76.31	76.33	76.32	76.38	76.40	76.60	76.65	76.78	76.94
15	75.90	76.09	76.00	76.22	76.30	76.38	76.36	76.49	76.58	76.53	76.66	77.03
20	76.00	75.98	76.16	76.30	76.25	76.44	76.32	76.55	76.65	76.62	76.78	77.02
25	76.11	76.15	76.18	76.37	76.35	76.50	76.38	76.47	76.67	76.65	76.88	77.01
EOM	75.95	76.08	76.25	76.32	76.40	76.40	76.40	76.51	76.69	76.74	76.89	76.93

WATER YEAR 2004 HIGHEST 75.83 OCT 05, 2003 LOWEST 77.03 SEP 15, 2004



GROUND-WATER LEVELS

CITY OF CHESAPEAKE—Continued

364227076074708. Local number, 61B 14 SOW 091G.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 987 ft, diameter 2 in. from 987 to 1,110 ft, depth 1,110 ft, screened 1,090 to 1,100 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. July 6, 1995 to Feb. 13, 1997, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--March 1989 to current year.

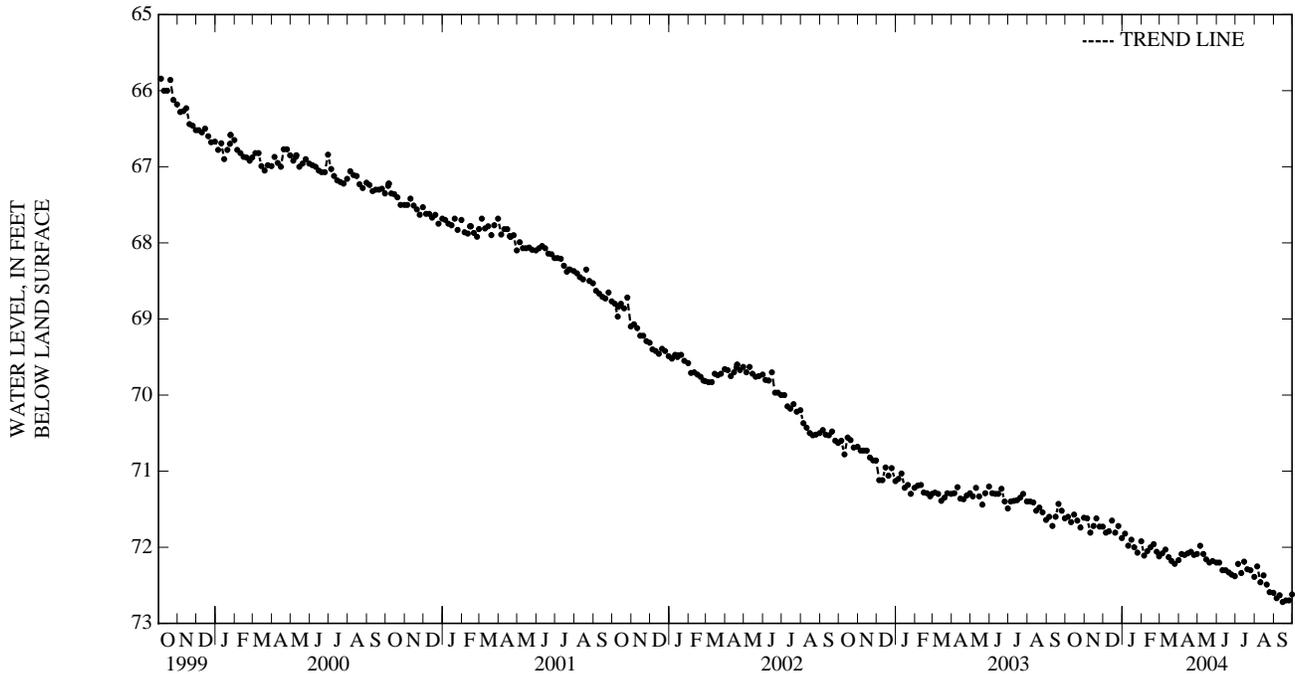
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.30 ft below land-surface datum, Mar. 22, 1989; lowest measured, 72.72 ft below land-surface datum, Sept. 13-15, 2004.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 71.57 ft below land-surface datum, Oct. 15; lowest instantaneous water level, 72.72 ft below land-surface datum, Sept. 13-15.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.60	71.62	71.81	71.82	72.11	72.08	72.09	71.98	72.20	72.22	72.25	72.67
10	71.67	71.81	71.79	71.98	72.05	72.03	72.10	72.09	72.30	72.34	72.46	72.63
15	71.57	71.72	71.65	71.90	72.00	72.13	72.08	72.16	72.30	72.19	72.37	72.72
20	71.65	71.62	71.81	72.00	71.96	72.18	72.06	72.20	72.33	72.29	72.49	72.70
25	71.74	71.73	71.72	72.07	72.06	72.22	72.10	72.18	72.36	72.30	72.59	72.70
EOM	71.61	71.73	71.88	71.92	72.12	72.17	72.09	72.20	72.38	72.39	72.60	72.62

WATER YEAR 2004 HIGHEST 71.57 OCT 15, 2003 LOWEST 72.72 SEP 15, 2004



CITY OF CHESAPEAKE—Continued

364227076074709. Local number, 61B 15 SOW 091H.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 700 ft, diameter 2 in. from 674 to 790 ft, depth 790 ft, screened 759 to 769 ft.

INSTRUMENTATION.--Occasional measurement with manometer or chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with manometer.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

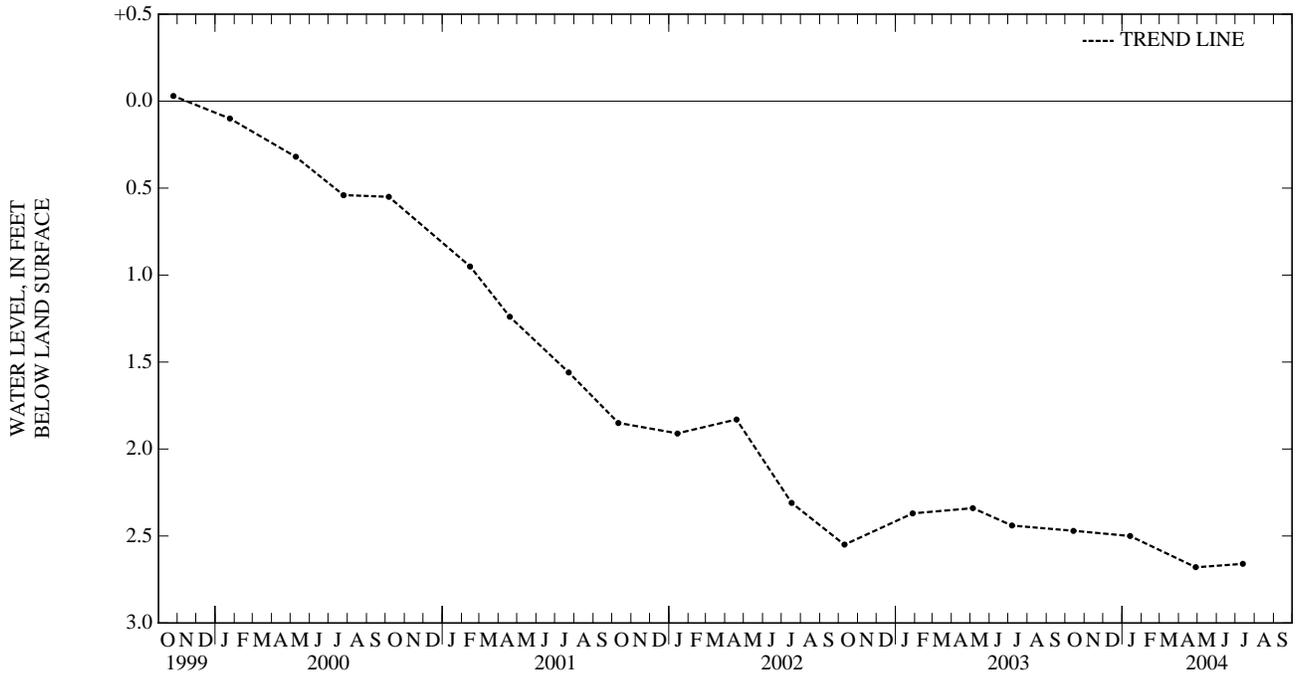
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Flowing well.

PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.75 ft above land-surface datum, Apr. 20, 1989; lowest measured, 2.68 ft below land-surface datum, Apr. 28, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	2.47	JAN 13	2.50	APR 28	2.68	JUL 13	2.66
WATER YEAR 2004 HIGHEST 2.47		OCT 14, 2003 LOWEST 2.68					



GROUND-WATER LEVELS
CITY OF CHESAPEAKE—Continued

364227076074710. Local number, 61B 16 SOW 091J.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 602 ft, diameter 2 in. from 586 to 690 ft, depth 690 ft, screened 670 to 680 ft.

INSTRUMENTATION.--Occasional measurement with manometer or chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with manometer.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

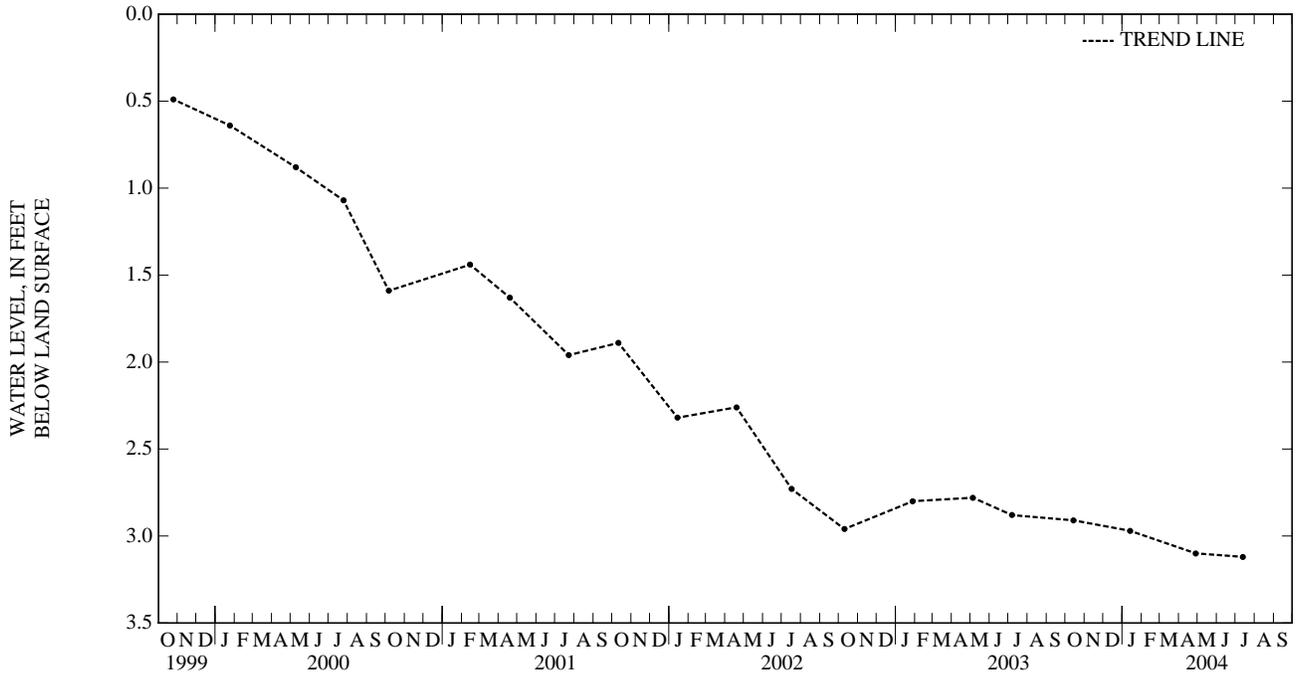
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.31 ft above land-surface datum, Mar. 13, 1989; lowest measured, 3.12 ft below land-surface datum, July 13, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	2.91	JAN 13	2.97	APR 28	3.10	JUL 13	3.12
WATER YEAR 2004 HIGHEST 2.91		OCT 14, 2003 LOWEST 3.12		JUL 13, 2004			



CITY OF CHESAPEAKE—Continued

364227076074711. Local number, 61B 17 SOW 091K.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 78 ft, diameter 2 in. from 78 to 108 ft, depth 108 ft, screened 88 to 98 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

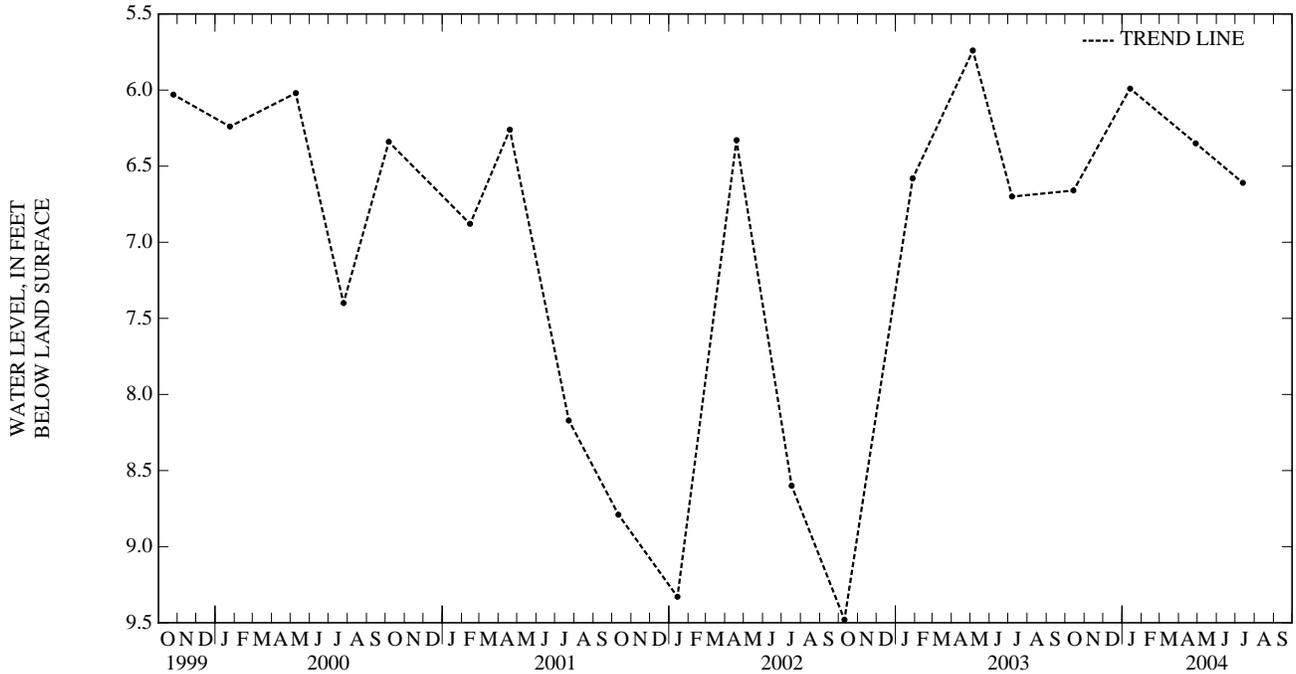
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.00 ft below land-surface datum, Jan. 30, 1991; lowest measured, 9.48 ft below land-surface datum, Oct. 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	6.66	JAN 13	5.99	APR 28	6.35	JUL 13	6.61
WATER YEAR 2004 HIGHEST		5.99	JAN 13, 2004 LOWEST		6.66	OCT 14, 2003	



GROUND-WATER LEVELS
CITY OF CHESAPEAKE—Continued

364227076074713. Local number, 61B 19 SOW 091M.

LOCATION.--Lat 36°42'28", long 76°07'46", NAD83, Hydrologic Unit 03010205, 300 ft south of Lockheed Avenue, 0.7 mi east of intersection of State Highway 165 and Lockheed Avenue, and 3.8 mi east of Fentress. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 6, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

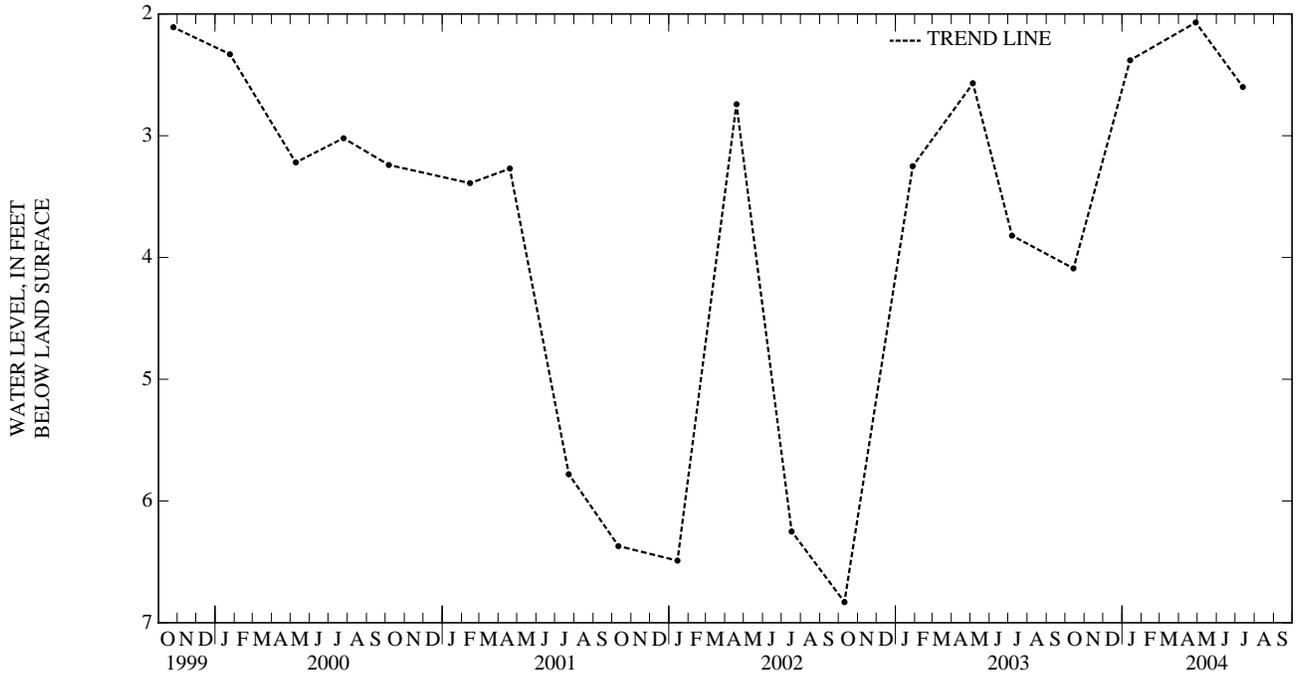
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--March 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.09 ft below land-surface datum, Feb. 26, 1992; lowest measured, 6.83 ft below land-surface datum, Oct. 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	4.09	JAN 13	2.38	APR 28	2.07	JUL 13	2.60
WATER YEAR 2004 HIGHEST		2.07	APR 28, 2004 LOWEST		4.09	OCT 14, 2003	



CHESTERFIELD COUNTY

372519077264701. Local number, 51H 92.

LOCATION.--Lat 37°25'20", long 77°26'46", NAD83, Hydrologic Unit 02080206, 500 ft north of Alcott Road at Bensley, 0.3 mi southwest of the intersection of U.S. Highways 1 and 301 (Jefferson Davis Highway) and Alcott Road. Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 53 ft, screened 51 to 53 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Oct. 1, 1985, to Jan. 23, 1991, digital recorder, 60-minute punch. Prior to Oct. 1, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 103.00 ft above NGVD of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum prior to June 12, 2001; top of casing, 0.17 ft below land-surface datum thereafter.

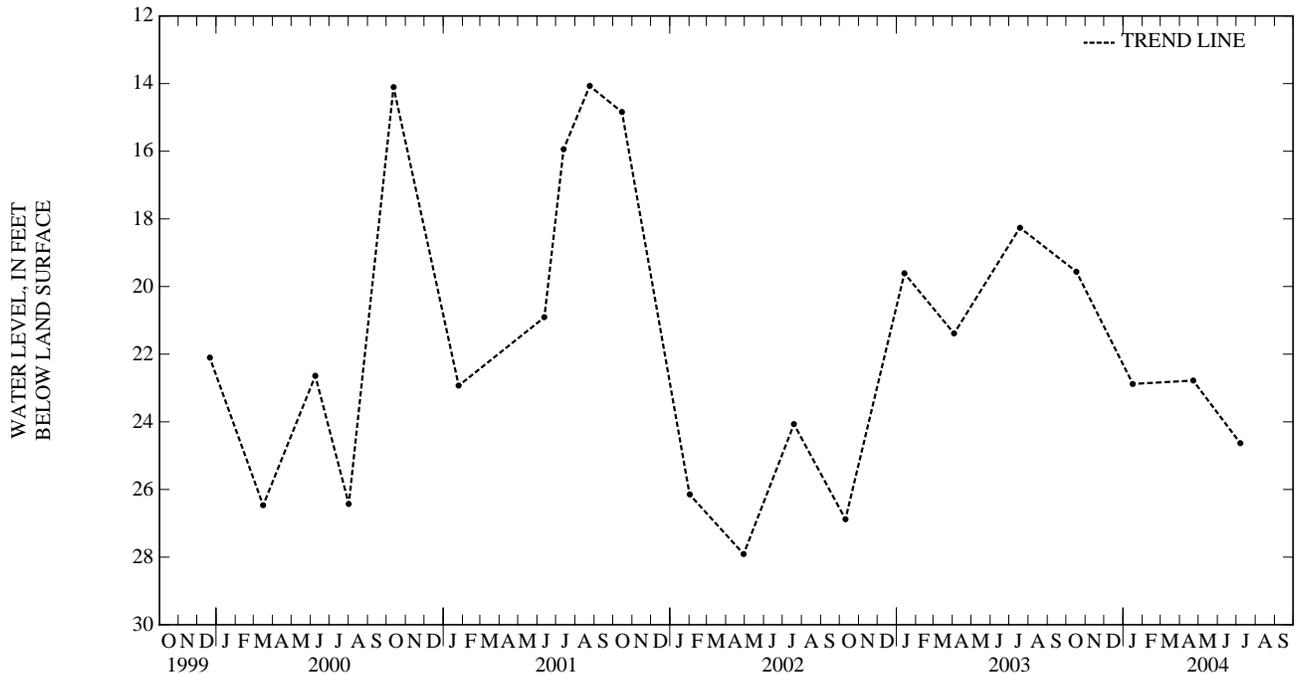
REMARKS.--Water level after Sept. 20, 1996 affected by local pumpage.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.95 ft below land-surface datum, June 14, 1989; lowest measured, 27.91 ft below land-surface datum, Apr. 29, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	19.56	JAN 16	22.88	APR 22	22.78	JUL 07	24.63
WATER YEAR 2004 HIGHEST 19.56		OCT 17, 2003		LOWEST 24.63		JUL 07, 2004	



GROUND-WATER LEVELS
CHESTERFIELD COUNTY—Continued

372519077264704. Local number, 51H 95.

LOCATION.--Lat 37°25'20", long 77°26'46", NAD83, Hydrologic Unit 02080206, 500 ft north of Alcott Road at Bensley and 0.3 mi southwest of the intersection of U.S. Highways 1 and 301 (Jefferson Davis Highway) and Alcott Road. Owner: U.S. Geological Survey.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 4.7 ft, screened 2.7 to 4.7 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Jan. 23, 1991, digital recorder, 60-minute punch and monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 102.88 ft above NGVD of 1929. Measuring point: Top of casing, 1.9 ft above land-surface datum prior to June 12, 2001; top of casing, 0.14 ft below land-surface datum thereafter.

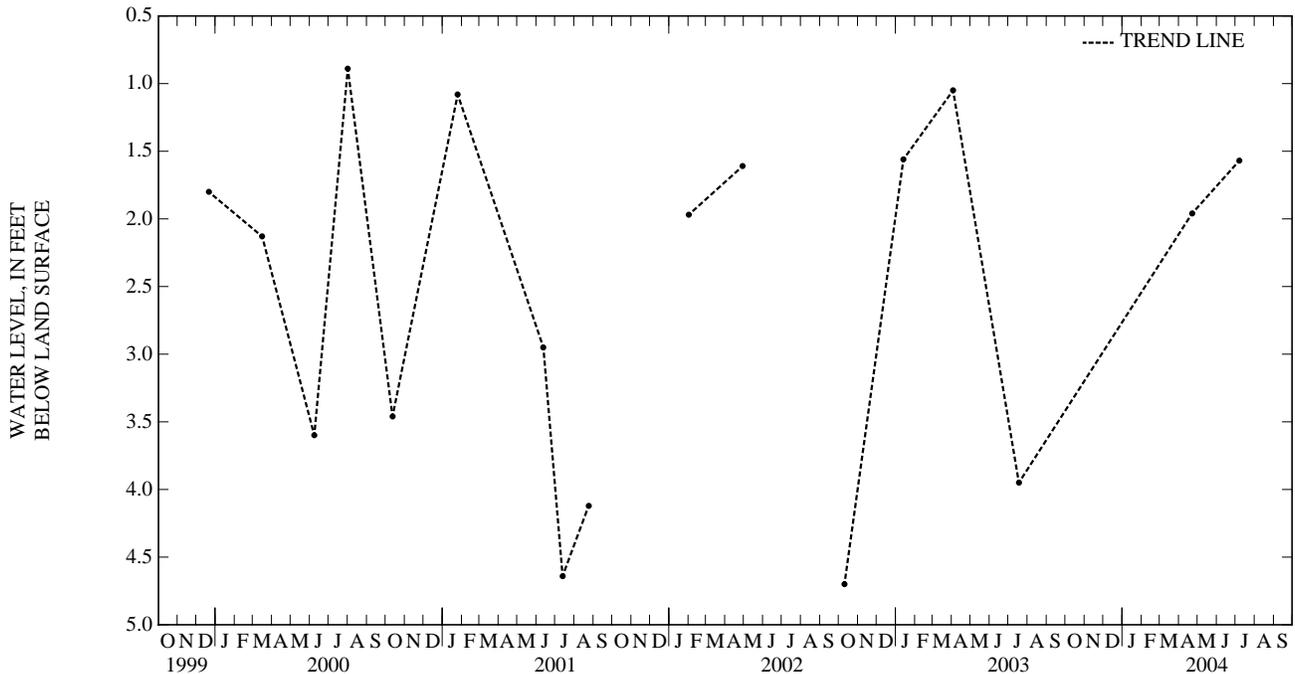
REMARKS.--Upper limit of recorded water-level data is limited by well construction. Water level affected by pumping and sampling at different times during the year.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.02 ft below land-surface datum, Jan. 11, 12, 1990; well was observed to be dry on Oct. 15, 2001 and July 19, 2002; lowest water level measured, 4.70 ft below land-surface datum, Oct. 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 22	1.96	JUL 07	1.57
WATER YEAR 2004 HIGHEST 1.57 JUL 07, 2004 LOWEST 1.96 APR 22, 2004			



CHESTERFIELD COUNTY—Continued

372519077264605. Local number, 51H130.

LOCATION.--Lat 37°25'20", long 77°26'45", NAD83, Hydrologic Unit 02080206, 500 ft north of Alcott Road at Bensley and 0.3 mi southwest of the intersection of U.S. Highway 1 and 301 (Jefferson Davis Highway) and Alcott Road. Owner: U.S. Geological Survey.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 96 ft, cased to 71 ft, open hole 71 to 96 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1995, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 102.70 ft above NGVD of 1929. Measuring point: Top of casing, 1.64 ft above land-surface datum prior to June 12, 2001; top of casing, 0.34 ft below land-surface datum thereafter.

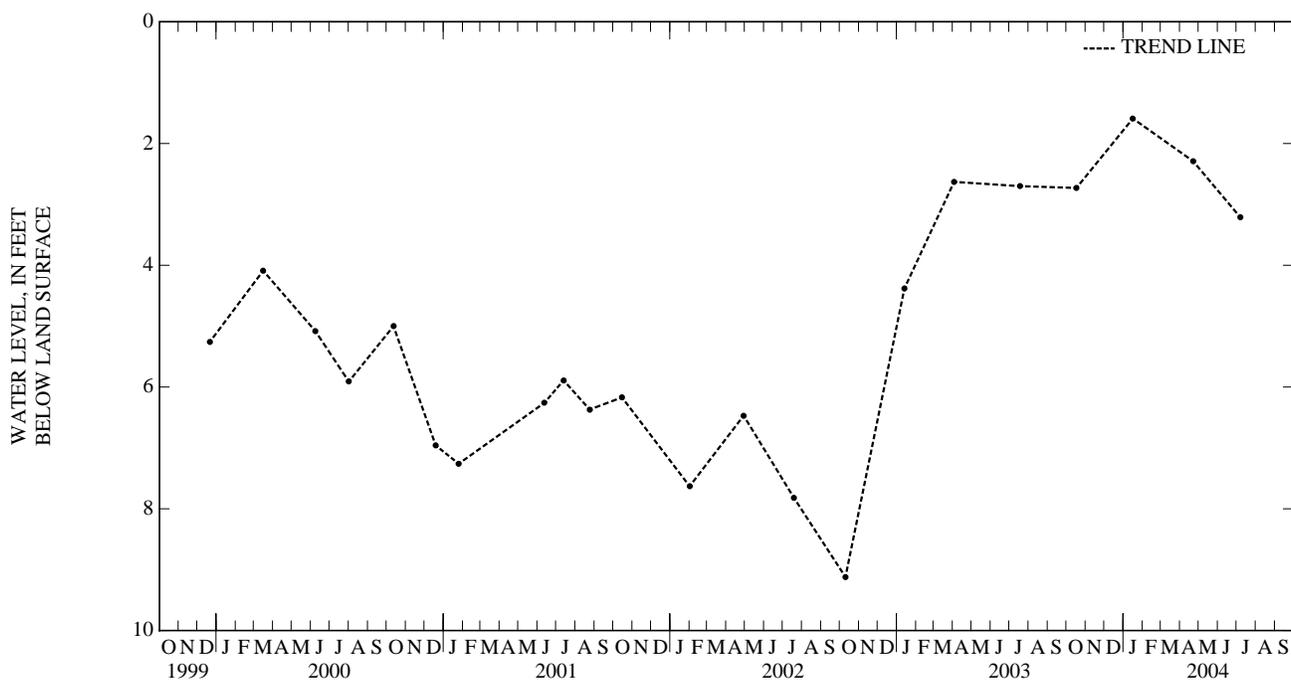
REMARKS.--Water level affected by pumping and sampling at different times during the year.

PERIOD OF RECORD.--May 1985 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.64 ft above land-surface datum, June 1, 1989; lowest measured, 9.12 ft below land-surface datum, Oct. 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	2.73	JAN 16	1.59	APR 22	2.29	JUL 07	3.21
WATER YEAR 2004 HIGHEST		1.59 JAN 16, 2004		LOWEST		3.21 JUL 07, 2004	



GROUND-WATER LEVELS
CHESTERFIELD COUNTY—Continued

372031077200001. Local number, 52G 22.

LOCATION.--Lat 37°20'32", long 77°19'59", NAD83, Hydrologic Unit 02080206, at Virginia Department of Transportation salt storage facility, 200 ft east of intersection of State Highway 10 and Interstate 295. Owner: U.S. Geological Survey.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 16.77 ft, screened 11.77 ft to 16.77 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Unpublished digital recorder data Nov. 13, 1995, to Apr. 2, 1996.

DATUM.--Elevation of land-surface datum is 70 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.59 ft above land-surface datum.

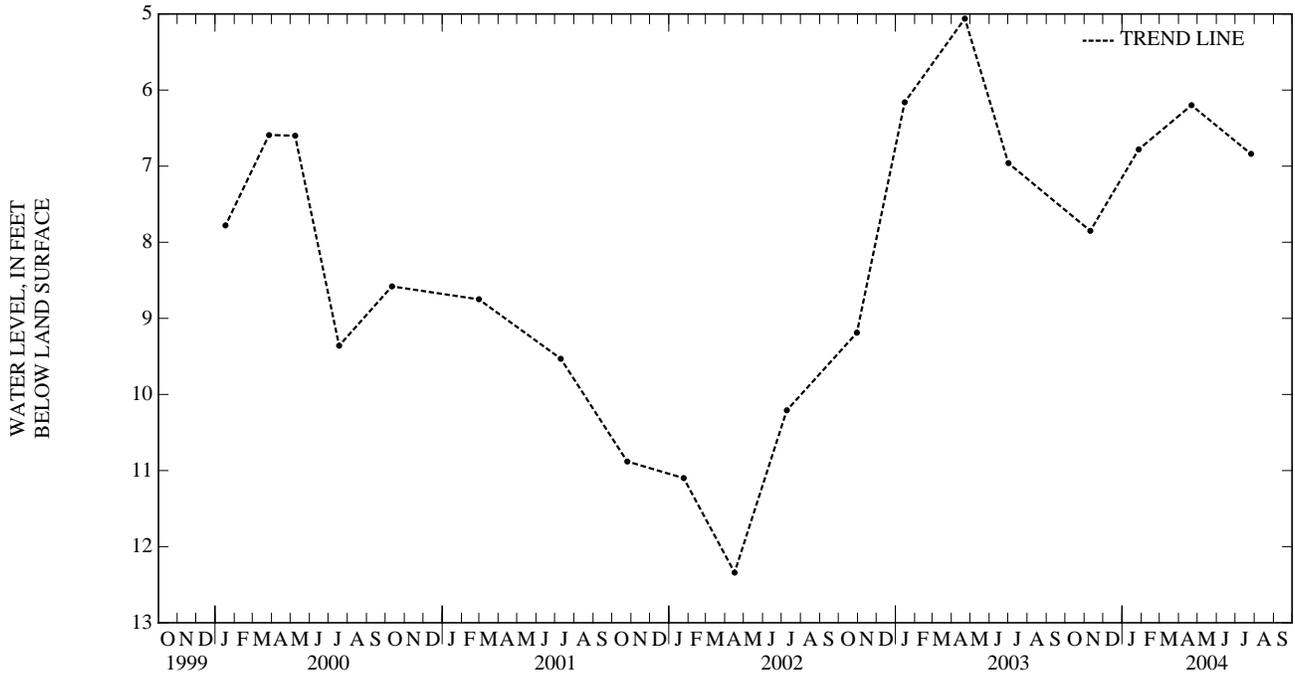
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Well drilled as part of Fall Zone ground-water study.

PERIOD OF RECORD.--August 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.06 ft below land-surface datum, Apr. 22, 2003; lowest measured, 13.39 ft below land-surface datum, Oct. 21, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	7.85	JAN 27	6.78	APR 21	6.20	JUL 26	6.84
WATER YEAR 2004 HIGHEST		6.20	APR 21, 2004 LOWEST		7.85	NOV 10, 2003	



CHESTERFIELD COUNTY—Continued

372031077200003. Local number, 52G 24.

LOCATION.--Lat 37°20'32", long 77°19'59", NAD83, Hydrologic Unit 02080206, at Virginia Department of Transportation salt storage facility, 200 ft east of intersection of State Highway 10 and Interstate 295. Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 64.79 ft, screened 59.79 ft to 64.79 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Unpublished digital recorder data Mar. 5, 1996, to Apr. 2, 1996.

DATUM.--Elevation of land-surface datum is 70 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.35 ft above land-surface datum.

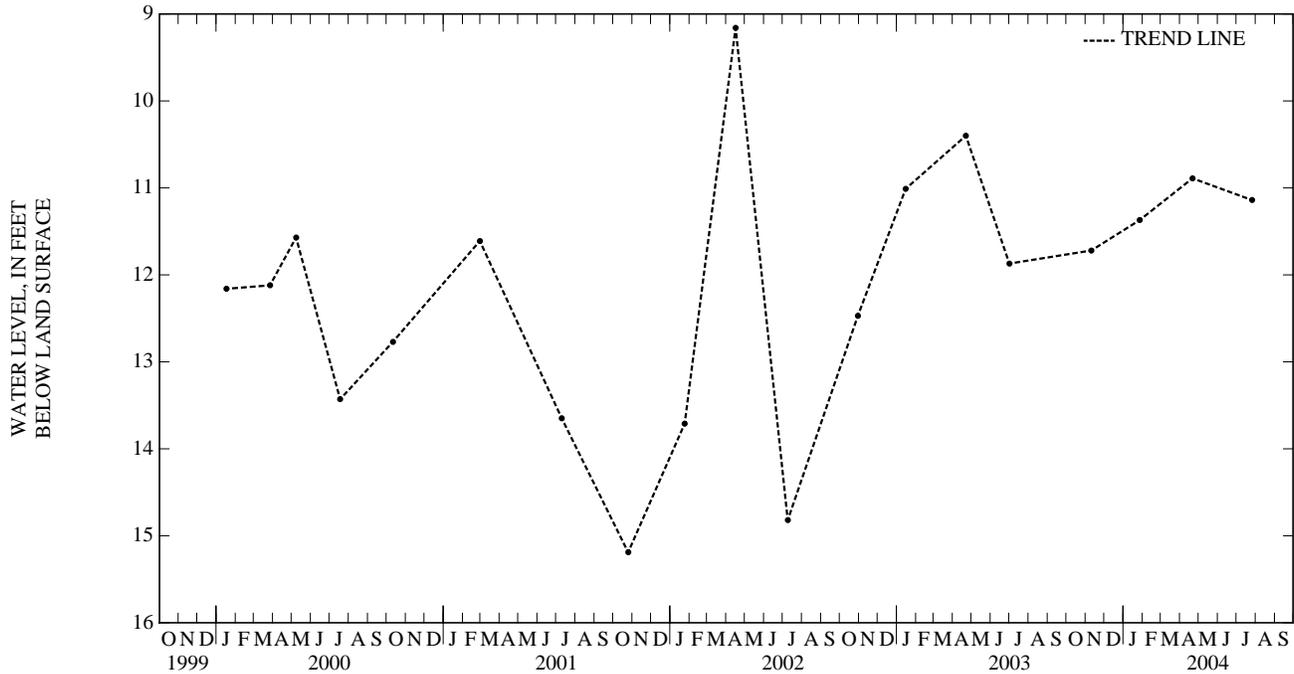
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Well drilled as part of Fall Zone ground-water study.

PERIOD OF RECORD.--August 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.16 ft below land-surface datum, Apr. 16, 2002; lowest measured, 17.67 ft below land-surface datum, Oct. 15, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	11.72	JAN 27	11.37	APR 21	10.89	JUL 26	11.14
WATER YEAR 2004 HIGHEST		10.89	APR 21, 2004		LOWEST		11.72
							NOV 10, 2003



GROUND-WATER LEVELS

CLARKE COUNTY

390348078035501. Local number, 46W175.

LOCATION.--Lat 39°03'48", long 78°03'54", NAD83, Hydrologic Unit 02070007, 1.5 mi east of the intersection of U.S. Highways 17/50 and 340 at Blandy Experimental Farm. Owner: University of Virginia.

AQUIFER.--Conococheague Limestone of Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 80.4 ft, cased to 24 ft, open hole 24 to 80.4 ft.

INSTRUMENTATION.--Electronic data logger, 60-minute record interval. Prior to February 28, 2000, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 600 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 3.7 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

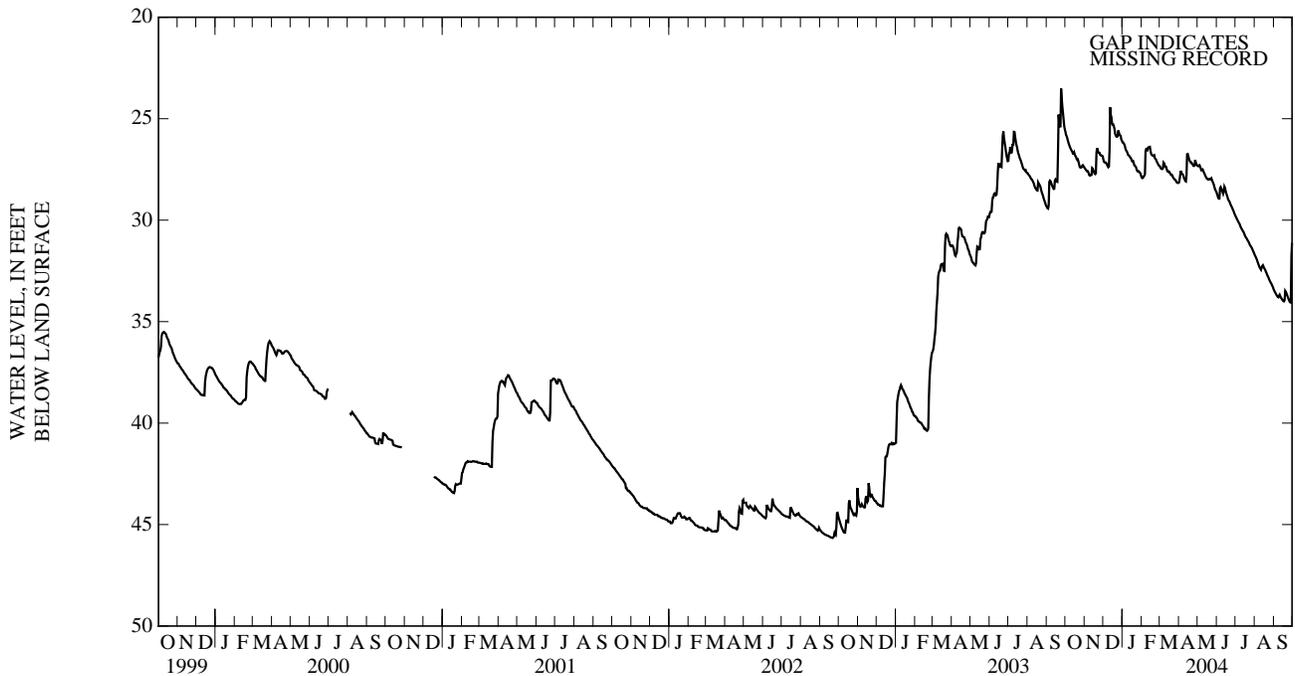
PERIOD OF RECORD.--July 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 22.87 ft below land-surface datum, Sept. 23, 2003; lowest recorded, 45.66 ft below land-surface datum, Sept. 21, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 23.93 ft below land-surface datum, Dec. 11; lowest instantaneous water level, 34.06 ft below land-surface datum, Sept. 28.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.09	27.60	27.16	26.39	27.81	27.48	27.68	27.37	28.94	30.05	32.01	33.69
10	26.52	27.80	27.36	26.79	26.55	27.37	27.98	27.57	28.61	30.38	32.39	33.67
15	26.66	27.55	25.22	26.99	26.58	27.62	26.74	27.91	28.55	30.67	32.29	33.95
20	27.03	26.66	25.75	27.30	26.82	27.77	27.17	27.98	29.03	30.97	32.62	33.54
25	27.41	26.69	25.58	27.59	27.11	28.00	27.33	28.10	29.35	31.27	32.98	33.93
EOM	27.38	26.85	26.08	27.83	27.32	28.16	27.29	28.60	29.73	31.64	33.38	31.12



GROUND-WATER LEVELS
CITY OF COLONIAL HEIGHTS

371644077244601. Local number, 51G 1.

LOCATION.--Lat 37°16'45", long 77°24'45", NAD83, Hydrologic Unit 02080207, 200 ft west of U.S. Highways 1 and 301, 0.5 mi south of the intersection of State Highway 144 (Ashby Avenue) and U.S. Highways 1 and 301 (Boulevard) in Colonial Heights. Owner: Dean Whittington.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 100 ft, cased to 50 ft, open hole 50 to 100 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

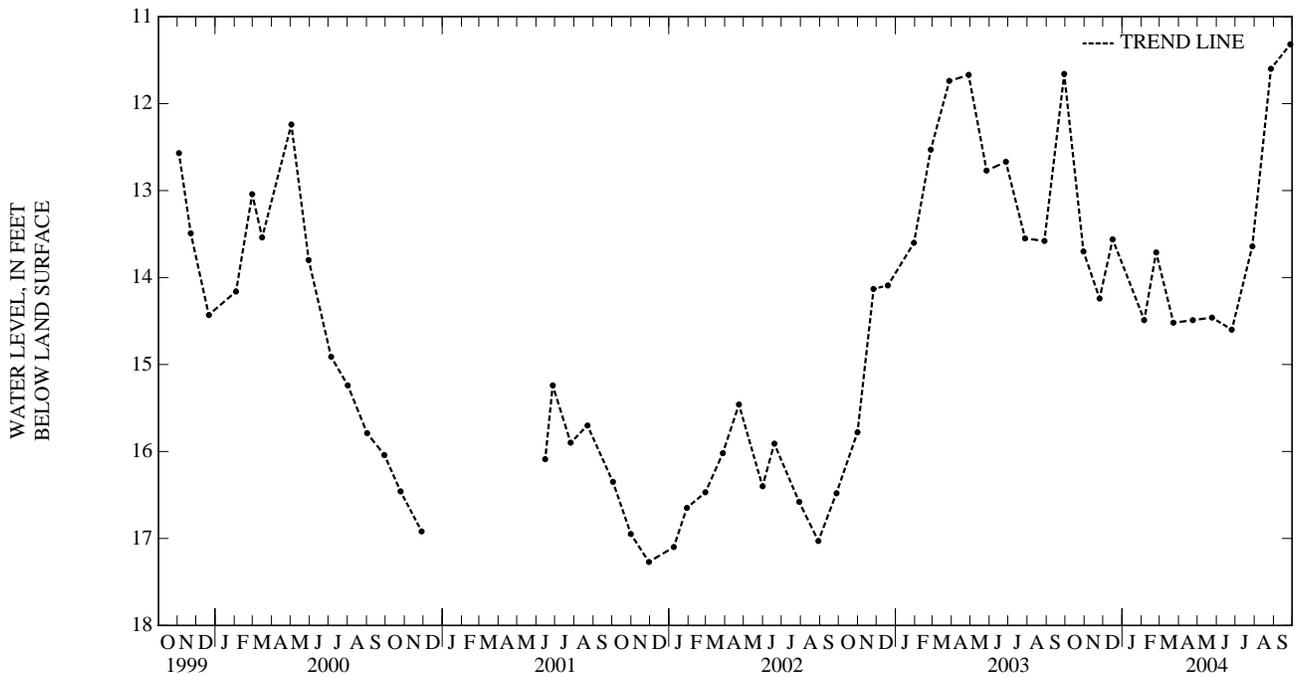
DATUM.--Elevation of land-surface datum is 57.30 ft above NGVD of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1939 to November 2000, June 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.73 ft below land-surface datum, Jan. 26, 1978, Mar. 31, 1998; lowest measured, 19.26 ft below land-surface datum, Dec. 3, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	13.70	DEC 16	13.56	FEB 24	13.71	APR 23	14.49	JUN 25	14.60	AUG 27	11.60
NOV 25	14.24	FEB 05	14.49	MAR 23	14.52	MAY 24	14.46	JUL 28	13.64	SEP 27	11.32
WATER YEAR 2004 HIGHEST 11.32 SEP 27, 2004 LOWEST 14.60 JUN 25, 2004											



GROUND-WATER LEVELS

ESSEX COUNTY

380024076585801. Local number, 55N 2.

LOCATION.--Lat 38°00'24", long 76°58'57", NAD83, Hydrologic unit 02080104, 250 feet north east of U.S. Highway 17, 1.6 mi north west of State Highway 624, 1.2 mi southeast of Champlain on the north bound side of U.S. Highway 17. Owner: Ray Ellis.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 516 ft, casing 0 to 494, screened 494 to 514 ft.

INSTRUMENTATION.--Occasional measurement with chalk tape by USGS personal.

DATUM.--Elevation of land surface datum is 141 ft above NGVD of 1929, from topographic map. Measuring point: Top of sanitary seal, 1.96 ft above land surface datum.

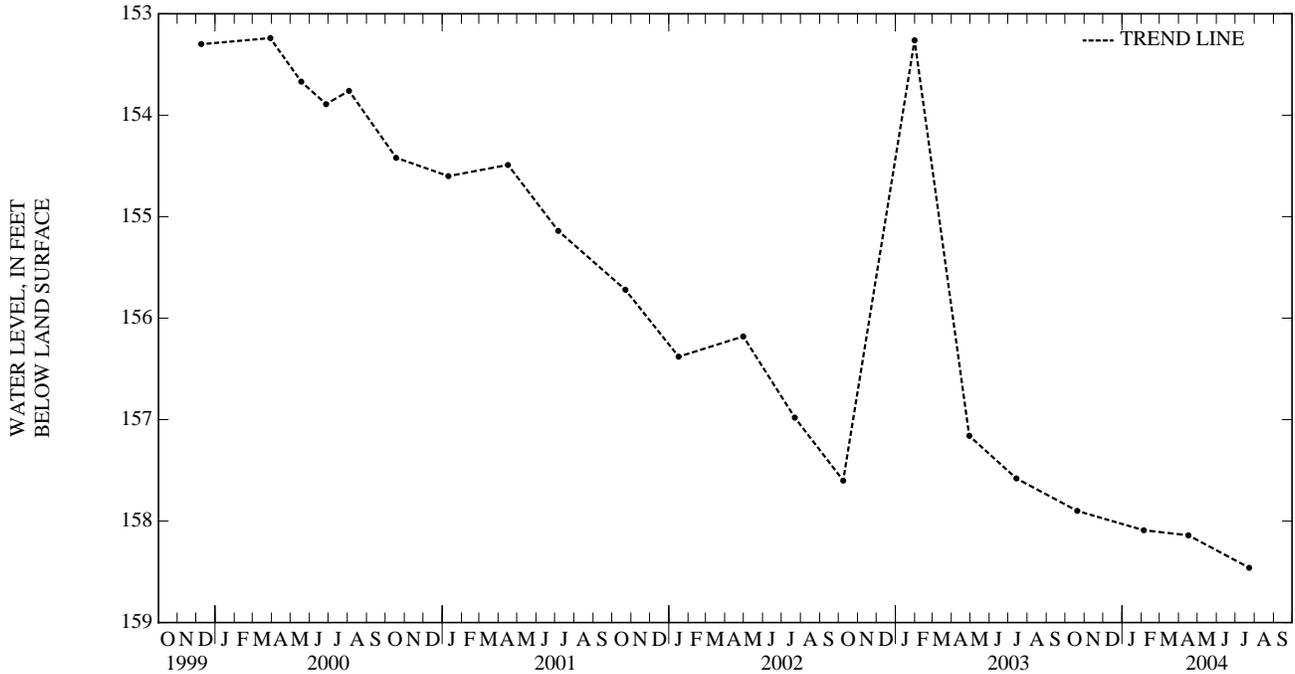
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--September 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 153.12 ft below land-surface datum, Sept. 9, 1999; lowest measured, 158.46 ft below land-surface datum July 23, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	157.90	FEB 04	158.09	APR 16	158.14	JUL 23	158.46
WATER YEAR 2004 HIGHEST 157.90 OCT 20, 2003		LOWEST 158.46 JUL 23, 2004					



FAIRFAX COUNTY

385638077220101. Local number, 52V 2.

LOCATION.--Lat 38°56'58", long 77°22'00", NAD83, Hydrologic Unit 02070008, at U.S. Geological Survey National Center in Reston. Owner: U.S. Geological Survey.

AQUIFER.--Manassas Sandstone of Triassic age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 8 in., depth 205 ft, cased to 35 ft, open hole 35 to 205 ft.

INSTRUMENTATION.--Electronic data logger, 15-minute record interval. Prior to Sept. 1, 1996, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 390 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

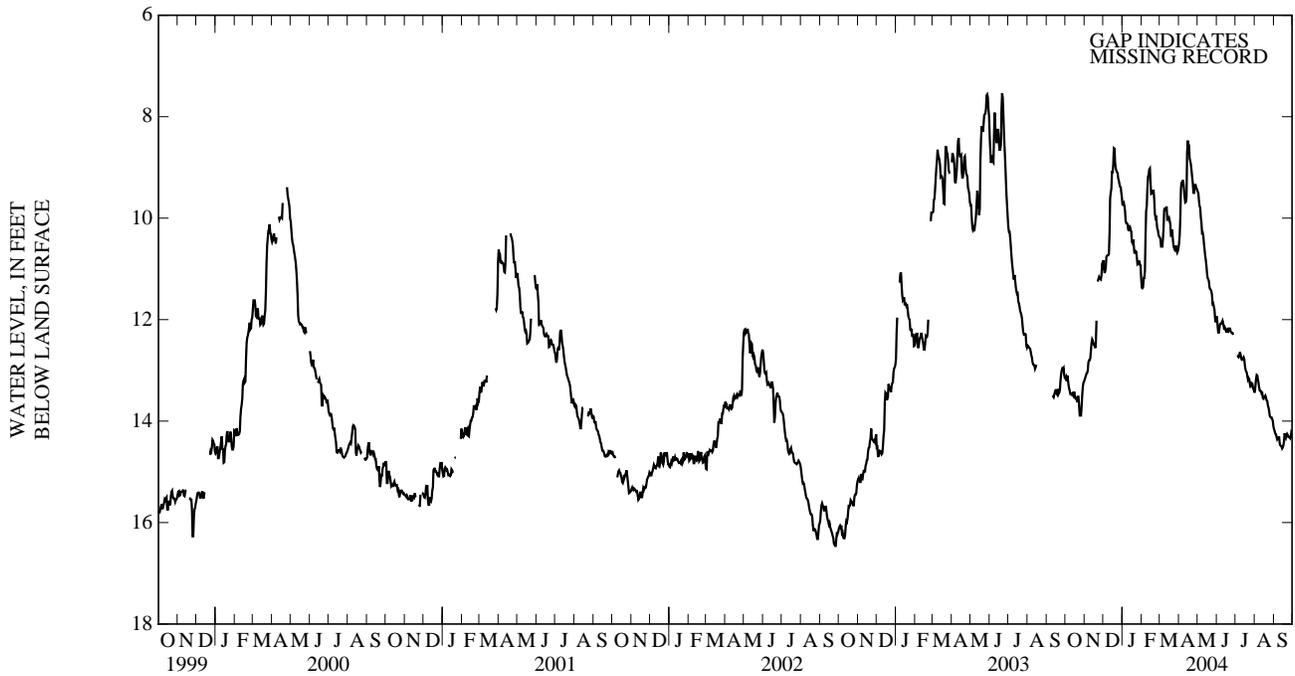
PERIOD OF RECORD.--October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.47 ft below land-surface datum, Mar. 30, 1984; lowest recorded, 24.92 ft below land-surface datum, Dec. 7-8, 1998.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 8.33 ft below land-surface datum, Apr. 15; lowest instantaneous water level, 14.54 ft below land-surface datum, Sept. 14.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.19	13.05	10.96	9.86	11.18	10.56	9.29	9.79	12.17	12.72	13.10	14.31
10	13.47	12.76	10.70	10.22	9.41	9.86	9.59	10.35	12.02	12.76	13.40	14.43
15	13.42	12.46	9.07	10.26	9.28	10.03	8.47	10.93	12.19	12.78	13.56	14.52
20	13.63	12.02	8.91	10.68	9.46	10.35	8.94	11.36	12.22	13.12	13.59	14.33
25	13.89	11.19	9.22	10.91	10.10	10.62	9.52	11.69	12.26	13.32	13.89	14.31
EOM	13.22	10.95	9.60	11.19	10.36	10.59	9.43	11.95	---	13.41	14.11	14.21



GROUND-WATER LEVELS

CITY OF FRANKLIN

364033076562604. Local number, 55B 67 SOW 145D.

LOCATION.--Lat 36°40'34", long 76°56'25", NAD83, Hydrologic Unit 03010202, at P. D. Camp Community College in Franklin. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 140 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 34 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.15 ft above land-surface datum.

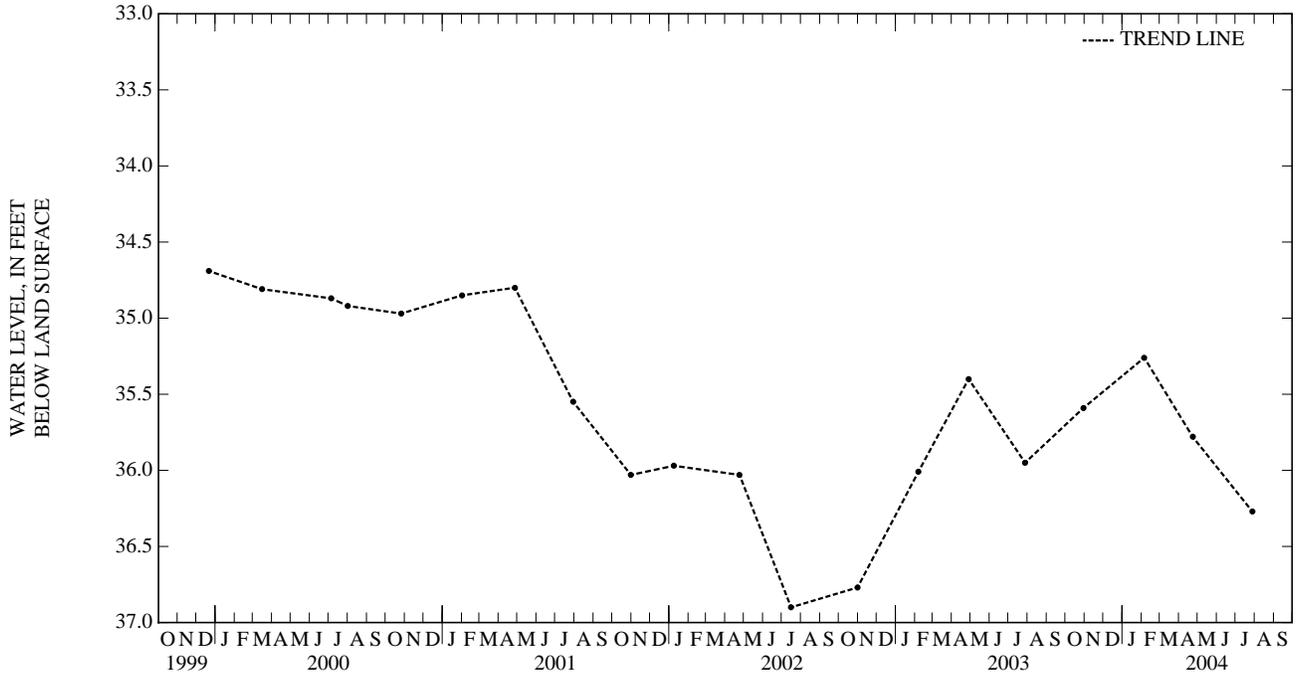
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--November 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.51 ft below land-surface datum, Mar. 19, 1985; lowest measured, 36.90 ft below land-surface datum, July 16, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	35.59	FEB 05	35.26	APR 23	35.78	JUL 28	36.27
WATER YEAR 2004 HIGHEST		35.26	FEB 05, 2004 LOWEST		36.27	JUL 28, 2004	



FREDERICK COUNTY

390546078191701. Local number, 44W 2.

LOCATION.--Lat 39°05'45.72", long 78°19'17.45", NAD83, Hydrologic Unit 02070006, 180 ft northeast of the intersection of Fromans Road and Cedar Creek Grade and 65 ft southeast of Cedar Creek Grade. Owner: Jacques E. Billmyer.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 300 ft, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

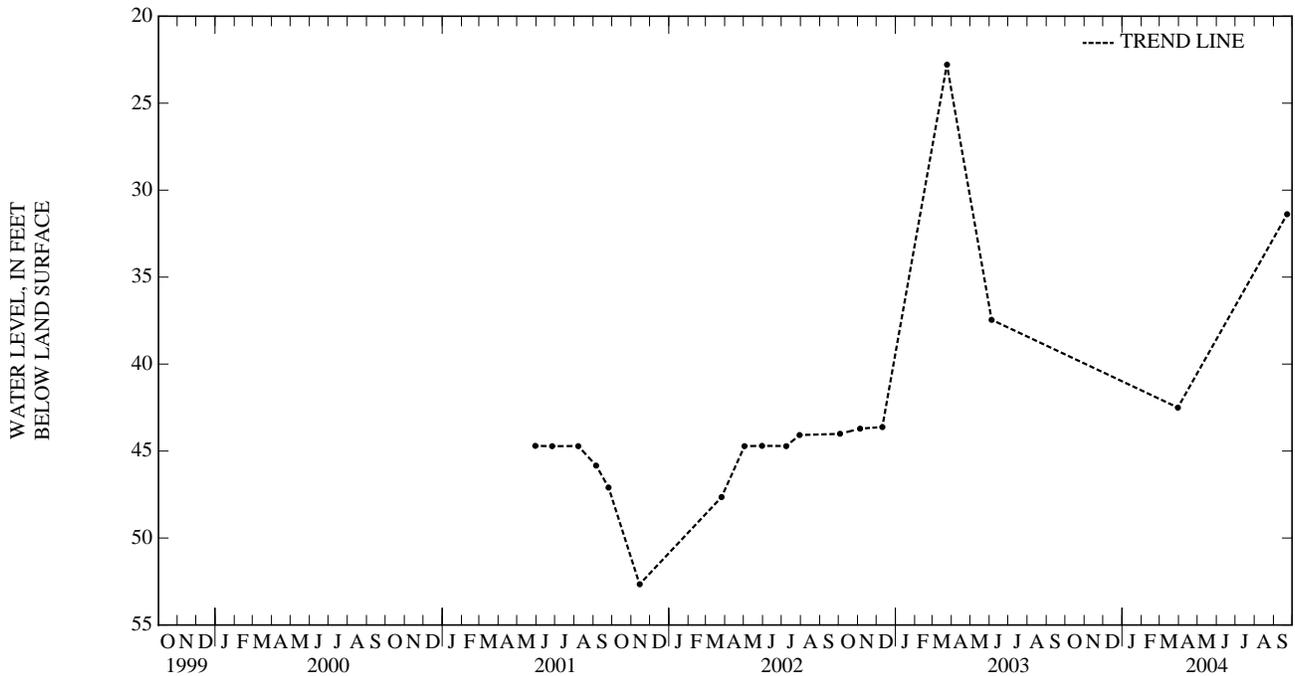
DATUM.--Elevation of land-surface datum is 827.78 ft above NGVD of 1929. Measuring point: Top of casing, 0.9 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.78 ft below land-surface datum, Mar. 24, 2003; lowest measured, 52.66 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	42.50	SEP 22	31.39
WATER YEAR 2004 HIGHEST 31.39 SEP 22, 2004 LOWEST 42.50 MAR 30, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390558078190001. Local number, 44W 4.

LOCATION.--Lat 39°05'58.44", long 78°18'59.87", NAD83, Hydrologic Unit 02070006, 0.39 mi. northeast of the intersection of Fromans Road and Cedar Creek Grade and 385 ft southeast of Cedar Creek Grade. Owner: Dwight Rinard.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 300 ft, cased to 60 ft, open hole 60 to 300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

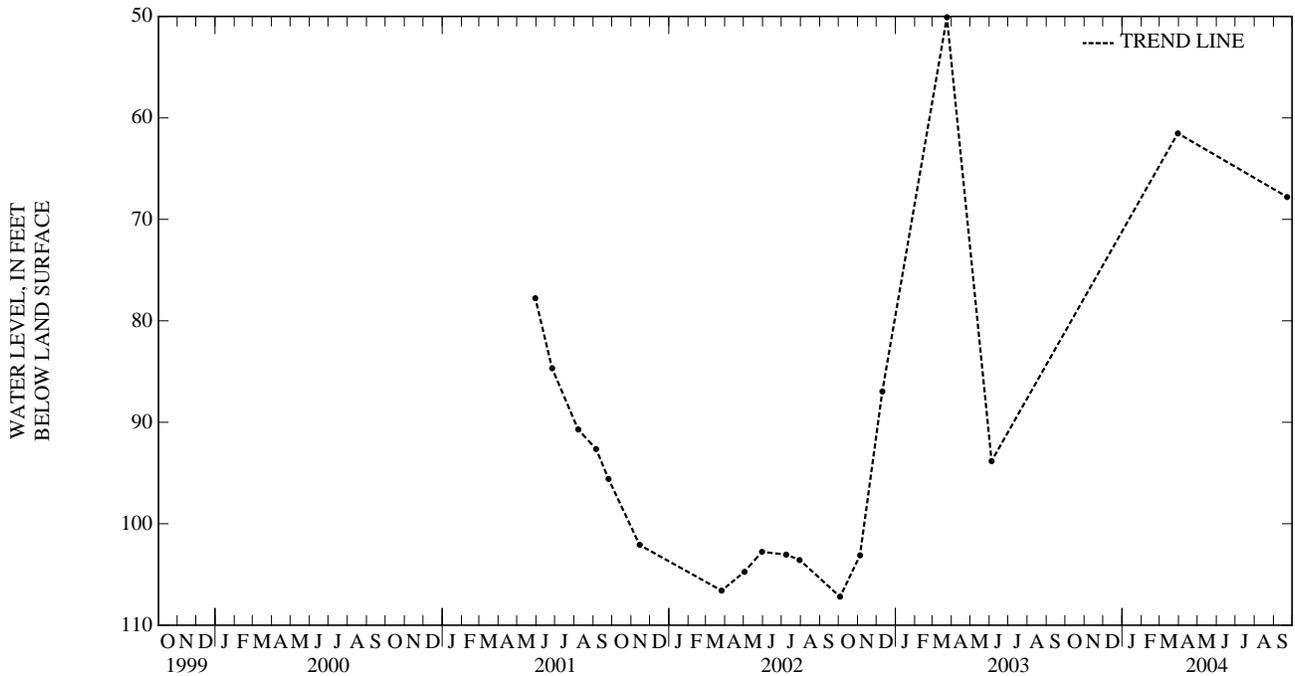
DATUM.--Elevation of land-surface datum is 845 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.07 ft below land-surface datum, Mar. 24, 2003; lowest measured, 107.20 ft below land-surface datum, Oct. 3, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	61.52	SEP 22	67.79
WATER YEAR 2004 HIGHEST 61.52 MAR 30, 2004 LOWEST 67.79 SEP 22, 2004			



FREDERICK COUNTY—Continued

390514078191901. Local number, 44W 5.

LOCATION.--Lat 39°05'14.27", long 78°19'18.84", NAD83, Hydrologic Unit 02070006, 0.38 mi. north of the intersection of Middle Road and Cedar Creek Grade and 100 ft west of Cedar Creek Grade. Owner: Cedar Creek Primitive Baptist Church.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 98 ft, cased to 24 ft, open hole 24 to 98 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

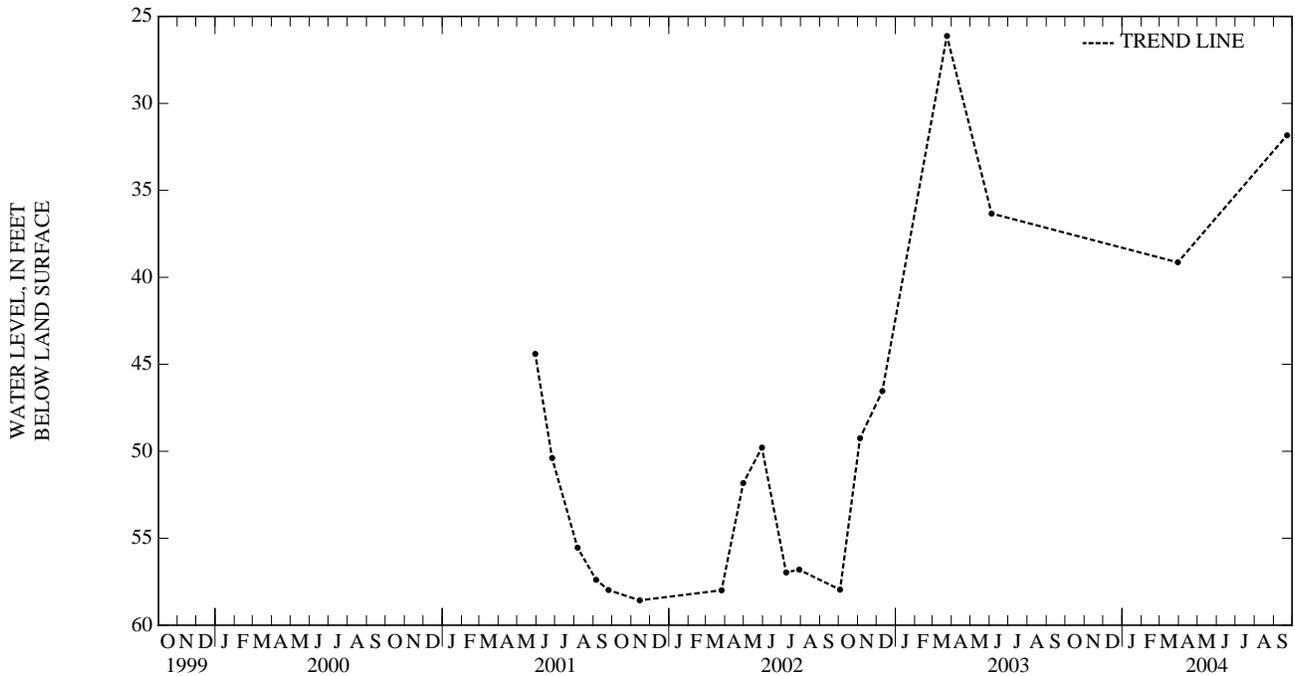
DATUM.--Elevation of land-surface datum is 730 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.25 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.12 ft below land-surface datum, Mar. 24, 2003; lowest measured, 58.57 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	39.14	SEP 22	31.83
WATER YEAR 2004 HIGHEST 31.83 SEP 22, 2004 LOWEST 39.14 MAR 30, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390456078191501. Local number, 44W 6.

LOCATION.--Lat 39°04'55.92", long 78°19'14.61", NAD83, Hydrologic Unit 02070006, 400 ft northeast of the intersection of Middle Road and Cedar Creek Grade and 45 ft west of Middle Road. Owner: Cedar Creek Presbyterian Church.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

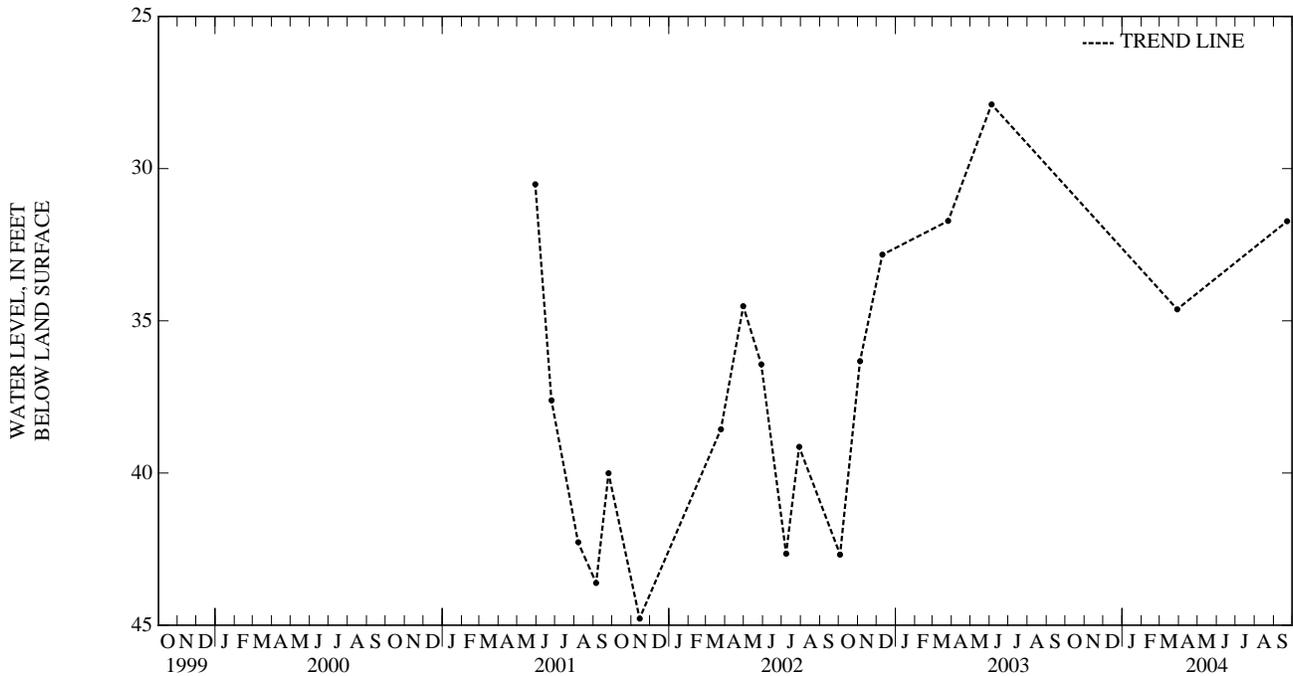
DATUM.--Elevation of land-surface datum is 725 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.25 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.89 ft below land-surface datum, June 4, 2003; lowest measured, 44.78 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	34.62	SEP 22	31.73
WATER YEAR 2004 HIGHEST 31.73 SEP 22, 2004 LOWEST 34.62 MAR 29, 2004			



FREDERICK COUNTY—Continued

390421078191701. Local number, 44W 7.

LOCATION.--Lat 39°04'20.97", long 78°19'16.68", NAD83, Hydrologic Unit 02070006, 0.13 mi. east of the intersection of Chapel Road and Mine Bank Road and 30 ft south of Chapel Road. Owner: Hites Chapel United Methodist Church.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

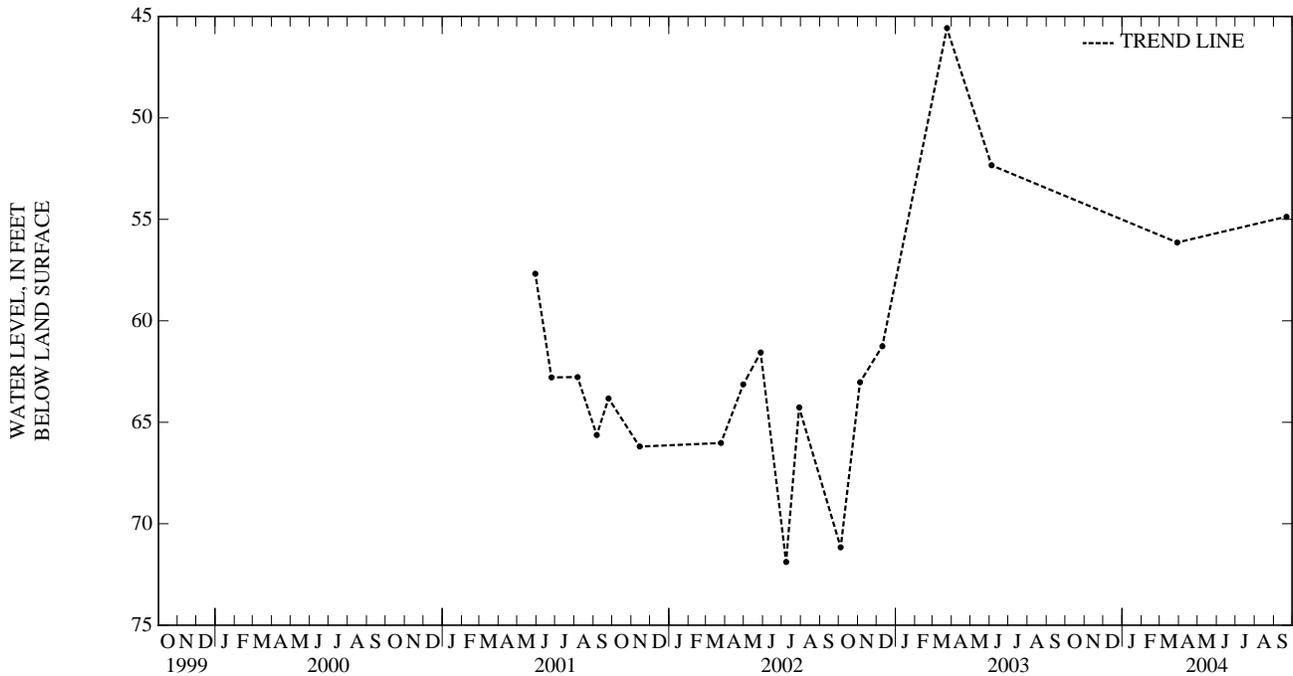
DATUM.--Elevation of land-surface datum is 765 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.58 ft below land-surface datum, Mar. 24, 2003; lowest measured, 71.89 ft below land-surface datum, July 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	56.14	SEP 21	54.87
WATER YEAR 2004 HIGHEST 54.87 SEP 21, 2004 LOWEST 56.14 MAR 29, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390226078170601. Local number, 44W 8.

LOCATION.--Lat 39°02'26.08", long 78°17'06.00", NAD83, Hydrologic Unit 02070006, 300 ft northwest of the intersection of Chapel Road and Veterans Road and 25 ft west of Chapel Road. Owner: Middletown Baptist Church.

AQUIFER.--Rockdale Run Formation of the Beekmantown Group of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 155 ft, cased to 81.5 ft, open hole 81.5 to 155 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval.

DATUM.--Elevation of land-surface datum is 735 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

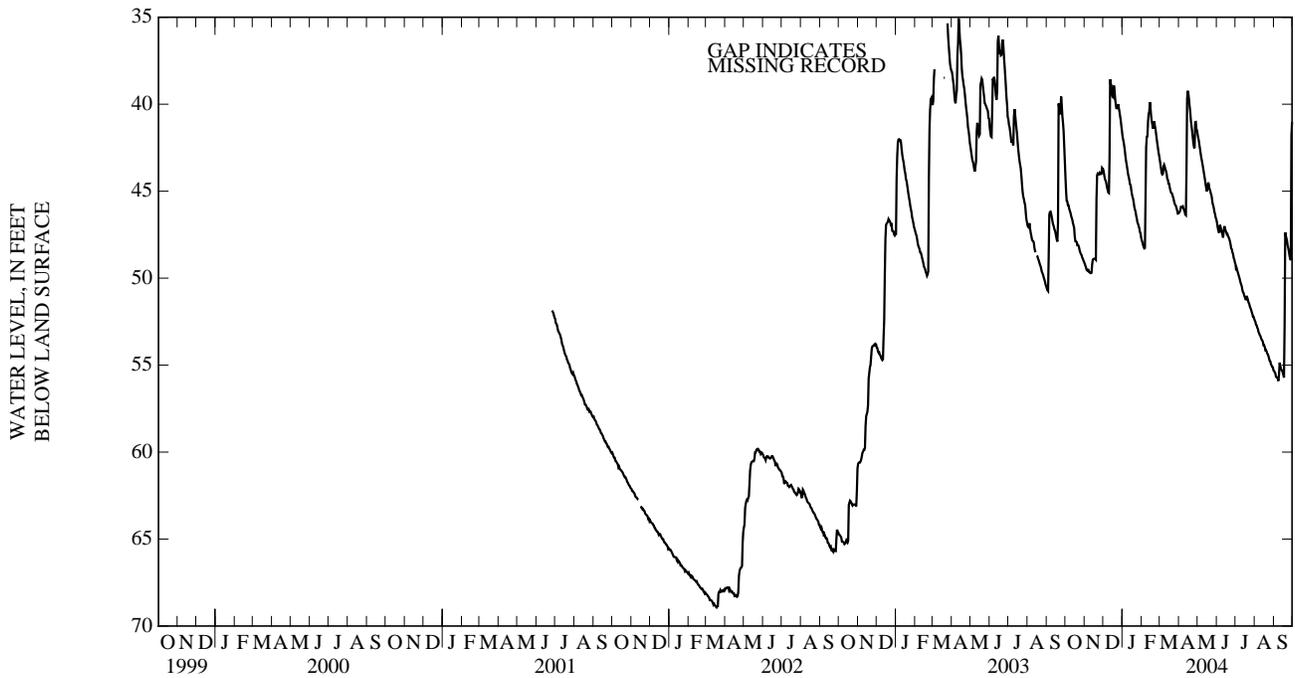
PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, not determined, greater than 34.46 ft below land-surface datum, occurred during period of missing record, March 5-24, 2003; lowest recorded, 68.93 ft below land-surface datum, Mar. 18, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 38.45 ft below land-surface datum, Dec. 12; lowest instantaneous water level, 55.91 ft below land-surface datum, Sept. 8.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.82	49.56	44.41	42.78	48.29	44.04	45.92	42.63	47.34	49.71	52.85	55.70
10	46.40	49.68	45.11	44.05	41.85	43.74	46.17	43.73	47.51	50.36	53.32	54.86
15	47.12	48.90	39.41	44.93	40.24	44.57	39.23	44.85	47.27	51.01	53.86	55.42
20	48.10	45.45	39.66	45.93	41.25	45.12	40.93	44.89	47.66	51.14	54.21	47.57
25	48.54	43.95	40.00	46.81	41.99	45.73	42.46	45.71	48.34	51.72	54.76	48.48
EOM	49.07	43.71	41.53	47.69	42.97	46.28	41.51	46.61	49.11	52.34	55.29	41.02



FREDERICK COUNTY—Continued

390228078170301. Local number, 44W 9.

LOCATION.--Lat 39°02'27.51", long 78°17'02.92", NAD83, Hydrologic Unit 02070006, 440 ft north of the intersection of Chapel Road and Veterans Road and 210 ft east of Chapel Road. Owner: Harold G. Nichols.

AQUIFER.--Rockdale Run Formation of the Beekmantown Group of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

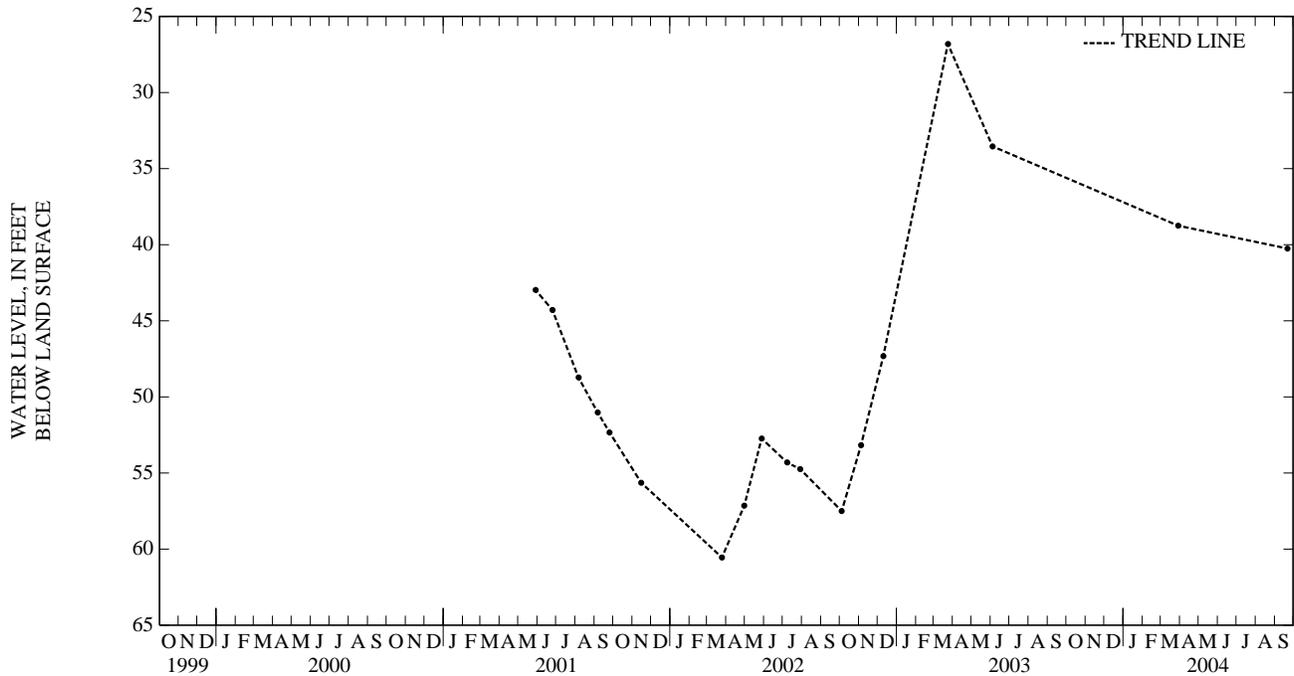
DATUM.--Elevation of land-surface datum is 730 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.35 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.81 ft below land-surface datum, Mar. 24, 2003; lowest measured, 60.55 ft below land-surface datum, Mar. 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	38.75	SEP 21	40.25
WATER YEAR 2004 HIGHEST 38.75 MAR 29, 2004 LOWEST 40.25 SEP 21, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390359078163201. Local number, 44W 10.

LOCATION.--Lat 39°03'59.35", long 78°16'32.17", NAD83, Hydrologic Unit 02070006, 250 ft south of the intersection of Hités Road and Clark Road and 10 ft west of Hités Road. Owner: Eugene Snow.

AQUIFER.--Rockdale Run Formation of the Beekmantown Group of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 136 ft, cased to 45 ft, open hole 45 to 136 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 835 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.

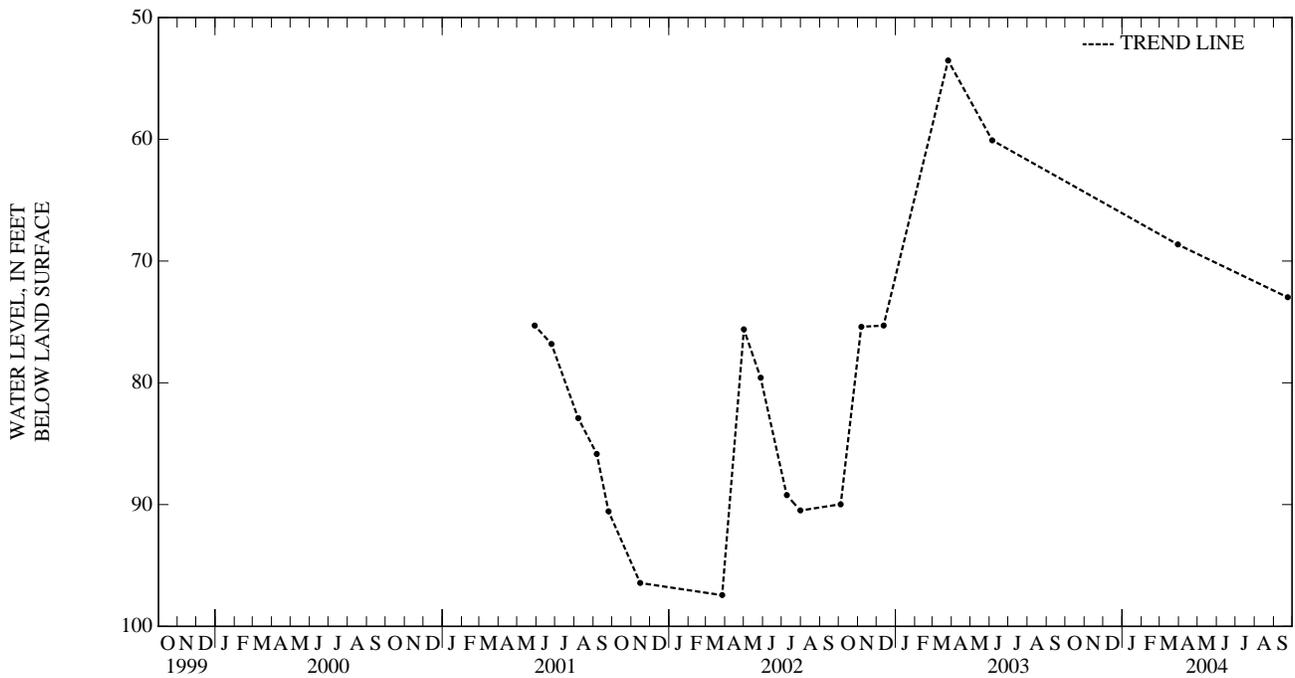
REMARKS.--Water level of Sept. 25, 2001 result of well having been recently pumped.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.53 ft below land-surface datum, Mar. 26, 2003; lowest measured, 97.44 ft below land-surface datum, Mar. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	68.64	SEP 23	72.98
WATER YEAR 2004 HIGHEST 68.64 MAR 30, 2004		LOWEST 72.98 SEP 23, 2004	



FREDERICK COUNTY—Continued

390444078154601. Local number, 44W 11.

LOCATION.--Lat 39°04'44.01", long 78°15'46.37", NAD83, Hydrologic Unit 02070006, 0.26 mi. east of the intersection of Hités Road and Carson Lane and 60 ft south of Carson Lane. Owner: Najeeb Anwar.

AQUIFER.--Rockdale Run Formation of the Beekmantown Group of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

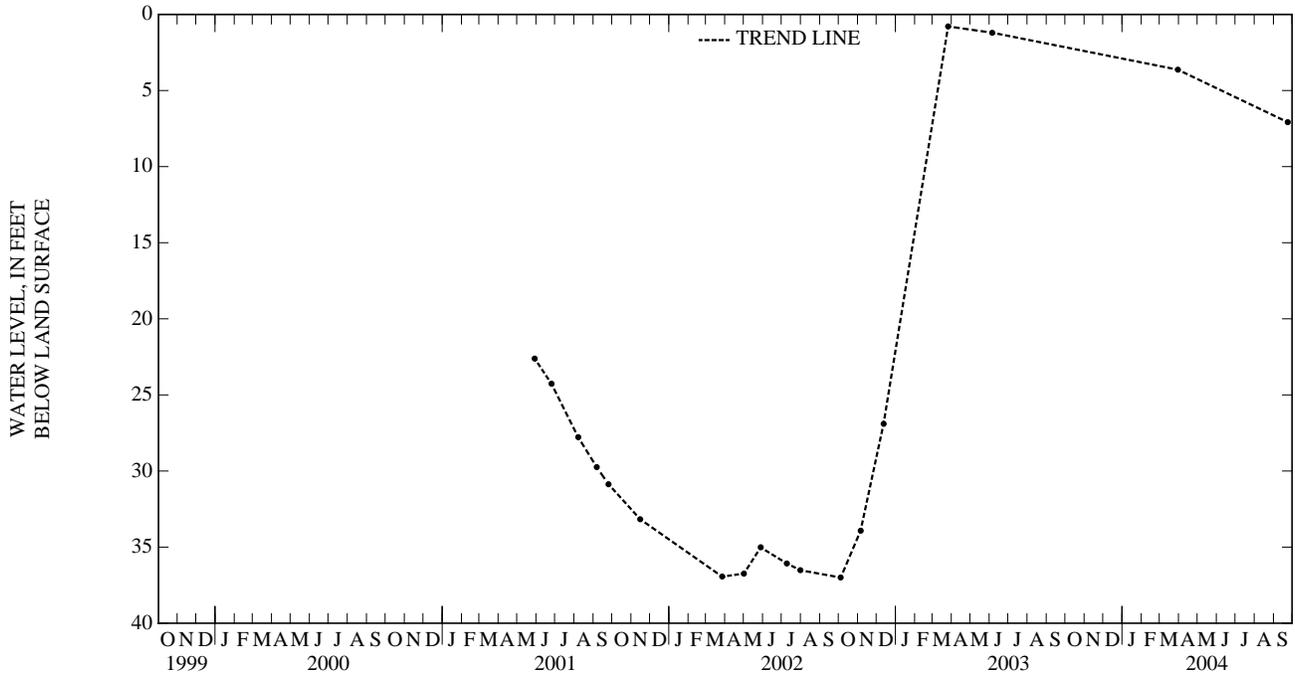
DATUM.--Elevation of land-surface datum is 780 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.79 ft below land-surface datum, Mar. 26, 2003; lowest measured, 39.49 ft below land-surface datum, Mar. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	3.63	SEP 23	7.08
WATER YEAR 2004 HIGHEST 3.63 MAR 30, 2004		LOWEST 7.08 SEP 23, 2004	



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390631078155301. Local number, 44W 12.

LOCATION.--Lat 39°06'30.90", long 78°15'52.87", NAD83, Hydrologic Unit 02070006, 280 ft southeast of the intersection of Middle Road and Carters Lane and 180 ft south of Carters Lane. Owner: Relief United Methodist Church.

AQUIFER.--Stonehenge Limestone of the Beekmantown Group of Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

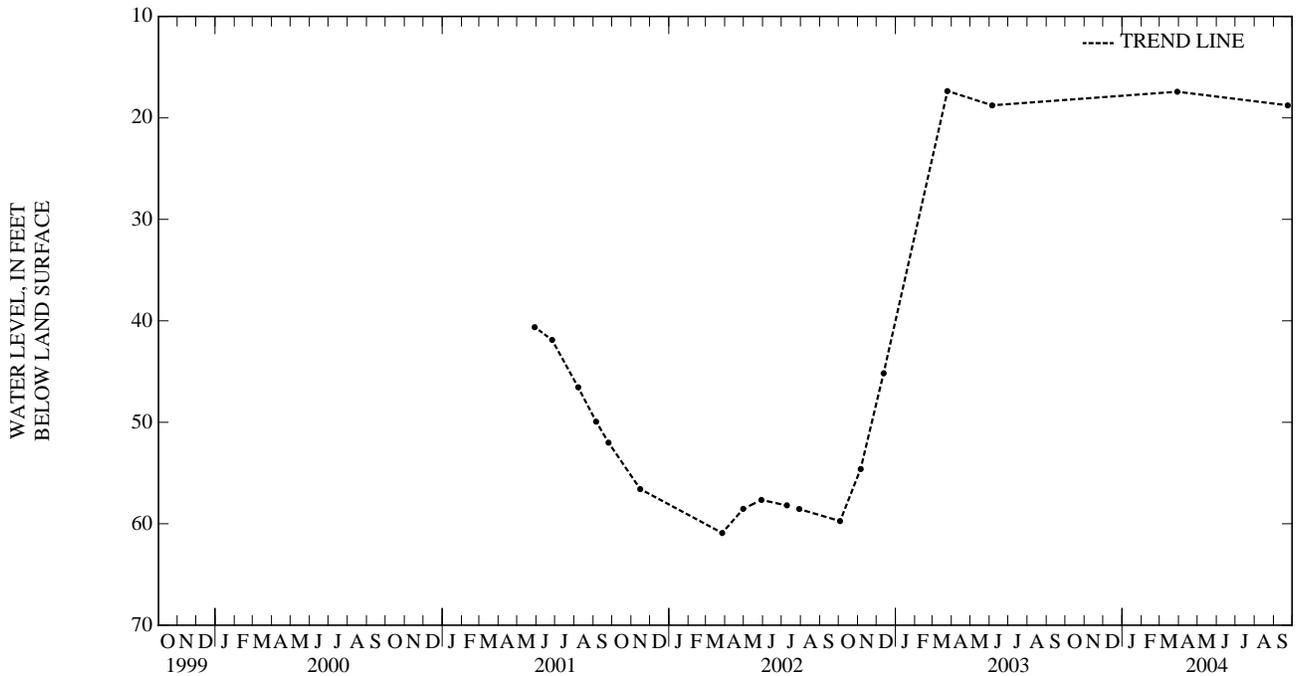
DATUM.--Elevation of land-surface datum is 835 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.35 ft below land-surface datum, Mar. 25, 2003; lowest measured, 60.91 ft below land-surface datum, Mar. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	17.42	SEP 23	18.76
WATER YEAR 2004 HIGHEST 17.42 MAR 29, 2004 LOWEST 18.76 SEP 23, 2004			



FREDERICK COUNTY—Continued

390647078170201. Local number, 44W 13.

LOCATION.--Lat 39°06'46.73", long 78°17'02.08", NAD83, Hydrologic Unit 02070006, 1.0 mi. west of the intersection of Middle Road and Laurel Grove Road and 750 ft south of Laurel Grove Road. Owner: Alson H. Smith, Jr. Agricultural Research and Extension Center.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 285 ft, cased to 135 ft, open hole 135 to 285 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

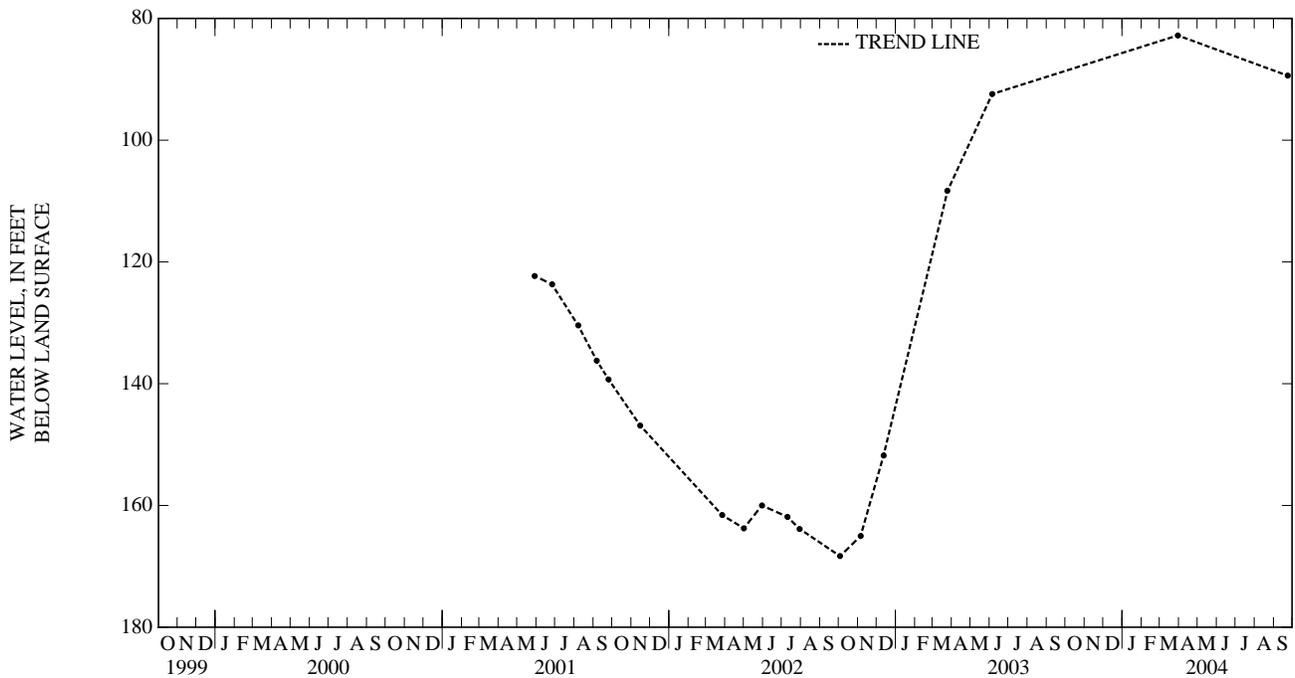
DATUM.--Elevation of land-surface datum is 930 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.79 ft below land-surface datum, Mar. 30, 2004; lowest measured, 168.33 ft below land-surface datum, Oct. 3, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	82.79	SEP 23	89.40
WATER YEAR 2004 HIGHEST 82.79 MAR 30, 2004 LOWEST 89.40 SEP 23, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390101078174801. Local number, 44W 14.

LOCATION.--Lat 39°01'01.20", long 78°17'48.31", NAD83, Hydrologic Unit 02070006, 0.28 mi. northeast of the intersection of Belle Grove Road and U.S. Highway 11 and 30 ft east of U.S. Highway 11. Owner: Joyce Brinklow.

AQUIFER.--Stickley Run Member of the Martinsburg Formation of Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 515 ft, cased to 55 ft, open hole 55 to 515 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

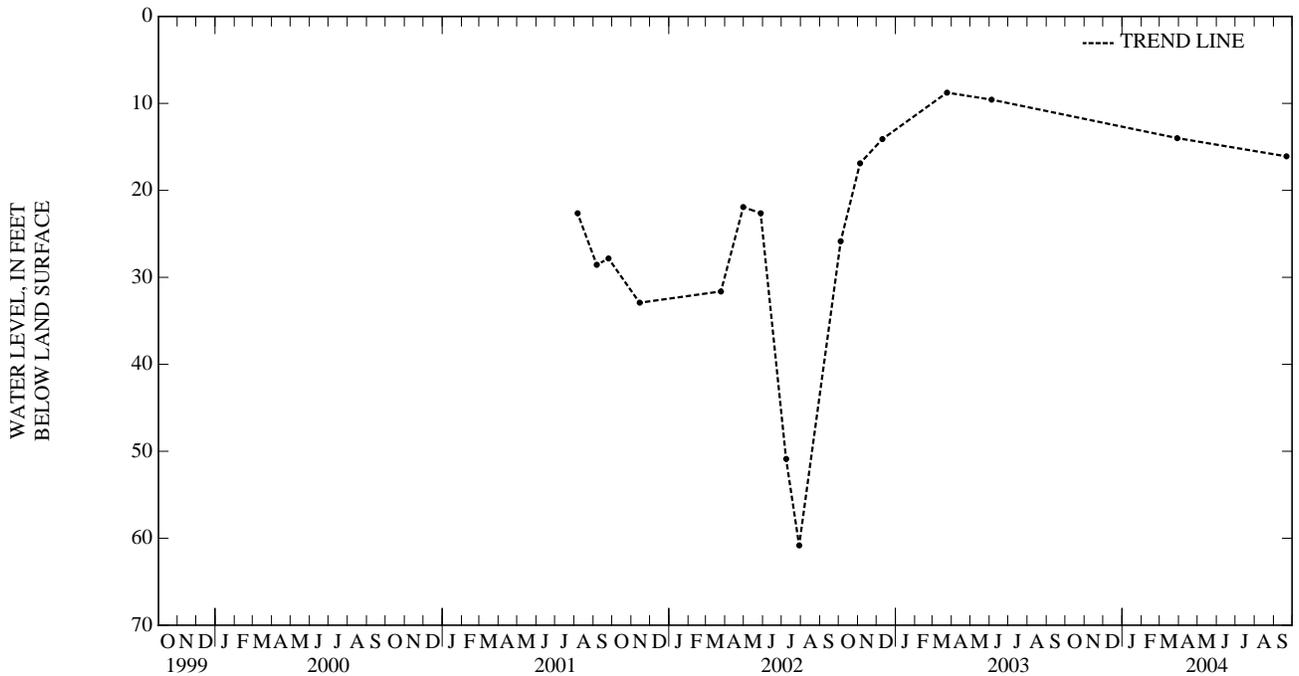
DATUM.--Elevation of land-surface datum is 730 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.76 ft below land-surface datum, Mar. 24, 2003; lowest measured, 60.82 ft below land-surface datum, July 29, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	13.99	SEP 21	16.09
WATER YEAR 2004 HIGHEST 13.99 MAR 29, 2004 LOWEST 16.09 SEP 21, 2004			



FREDERICK COUNTY—Continued

390405078151101. Local number, 44W 16.

LOCATION.--Lat 39°04'05.23", long 78°15'10.68", NAD83, Hydrologic Unit 02070007, 0.75 mi. northwest of the intersection of Vauluse Road and U.S. Highway 11 and 0.4 mi. north of Vauluse Road. Owner: Jason McDonald.

AQUIFER.--Stonehenge Limestone of the Beekmantown Group of Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 240 ft, cased to 72 ft, open hole 72 to 240 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

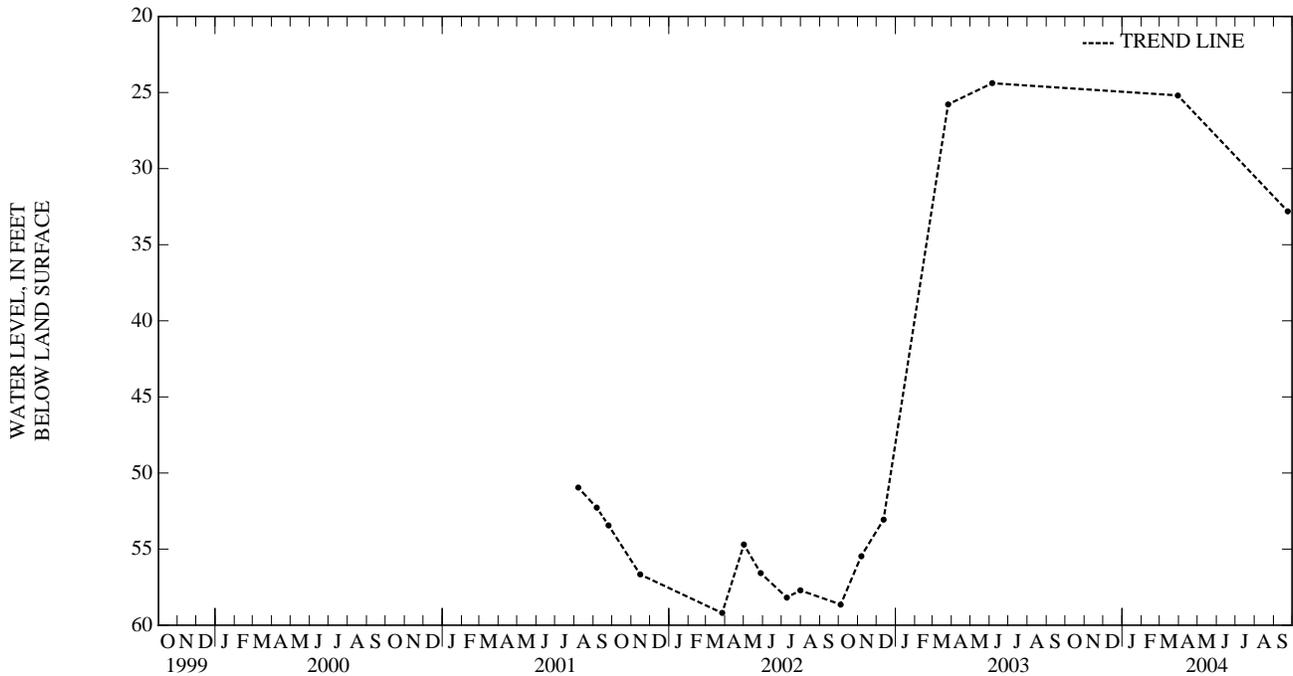
DATUM.--Elevation of land-surface datum is 765 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.39 ft below land-surface datum, June 5, 2003; lowest measured, 59.20 ft below land-surface datum, Mar. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	25.19	SEP 23	32.80
WATER YEAR 2004 HIGHEST 25.19 MAR 30, 2004 LOWEST 32.80 SEP 23, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390134078174701. Local number, 44W 17.

LOCATION.--Lat 39°01'33.95", long 78°17'47.13", NAD83, Hydrologic Unit 02070006, 600 ft southwest of the intersection of McCune Road and Meadow Mills Road and 200 ft southeast of Meadow Mills Road. Owner: George McFarland.

AQUIFER.--Pinesburg Station Dolomite of the Beekmantown Group of Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 145 ft, cased to 60 ft, open hole 60 to 145 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

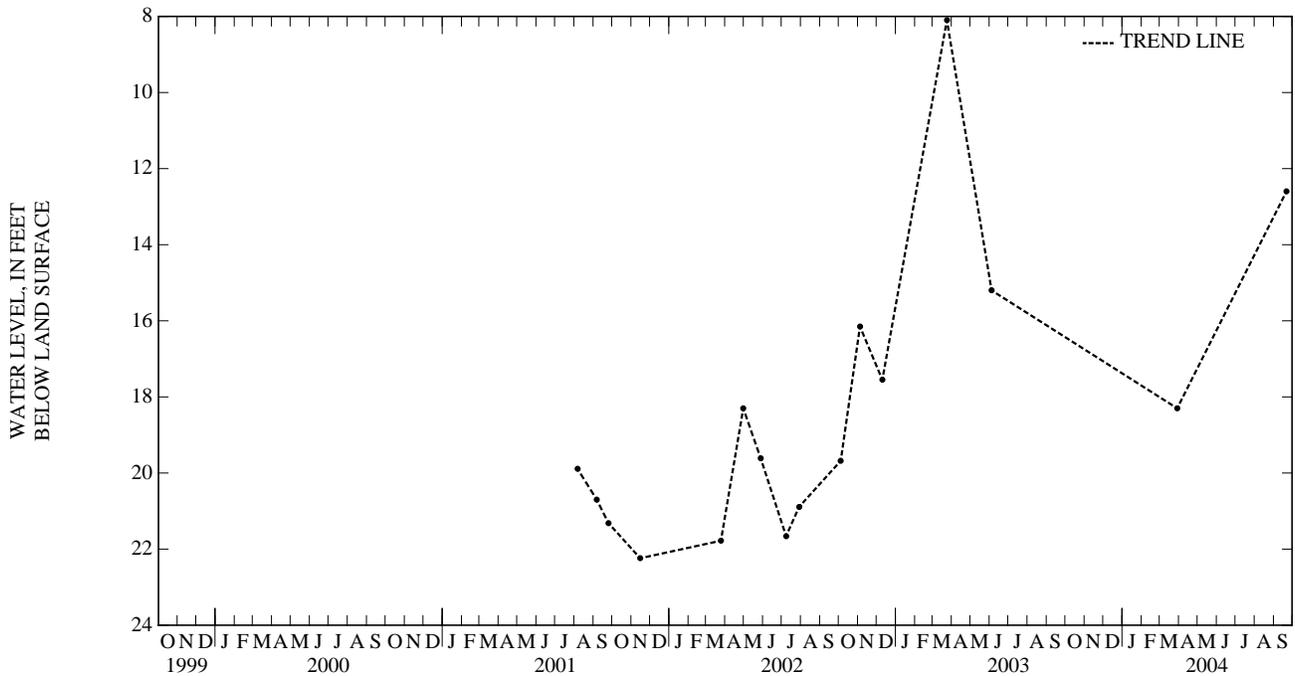
DATUM.--Elevation of land-surface datum is 645 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.10 ft below land-surface datum, Mar. 24, 2003; lowest measured, 22.24 ft below land-surface datum, Nov. 15, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	18.30	SEP 21	12.60
WATER YEAR 2004 HIGHEST 12.60 SEP 21, 2004 LOWEST 18.30 MAR 29, 2004			



FREDERICK COUNTY—Continued

390551078155801. Local number, 44W 18.

LOCATION.--Lat 39°05'50.88", long 78°15'57.64", NAD83, Hydrologic Unit 02070006, 0.47 mi. north of the intersection of Germany Road and Marlboro Road and 0.16 mi. west of Germany Road. Owner: Michael Anderson.

AQUIFER.--Conococheague Limestone of Upper Cambrian and Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 140 ft, cased to 79 ft, open hole 79 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 875 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.45 ft above land-surface datum.

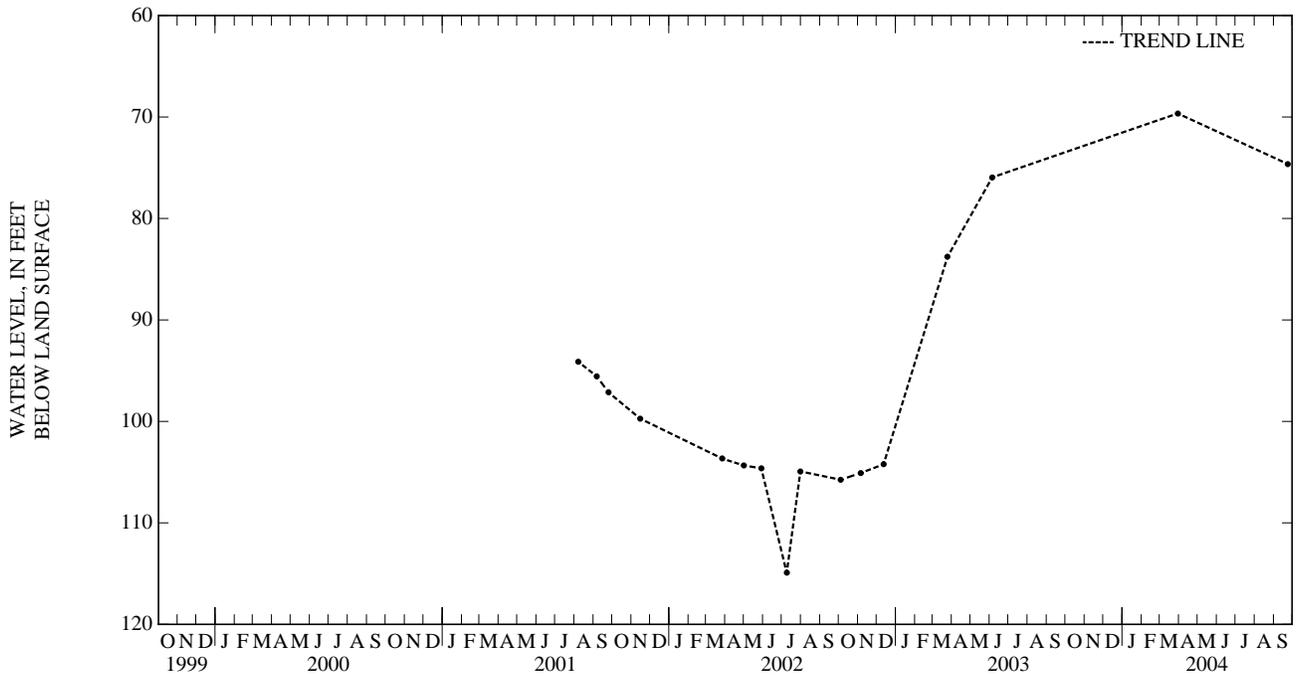
REMARKS.--Water level of July 9, 2002 result of well having been recently pumped.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.65 ft below land-surface datum, Mar. 30, 2004; lowest measured, 105.75 ft below land-surface datum, Oct. 4, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	69.65	SEP 23	74.63
WATER YEAR 2004 HIGHEST 69.65 MAR 30, 2004 LOWEST 74.63 SEP 23, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390422078191801. Local number, 44W 19.

LOCATION.--Lat 39°04'22.12", long 78°19'18.08", NAD83, Hydrologic Unit 02070006, 550 ft east of the intersection of Chapel Road and Minebank Road and 20 ft north of Chapel Road. Owner: Ray West.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 760 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

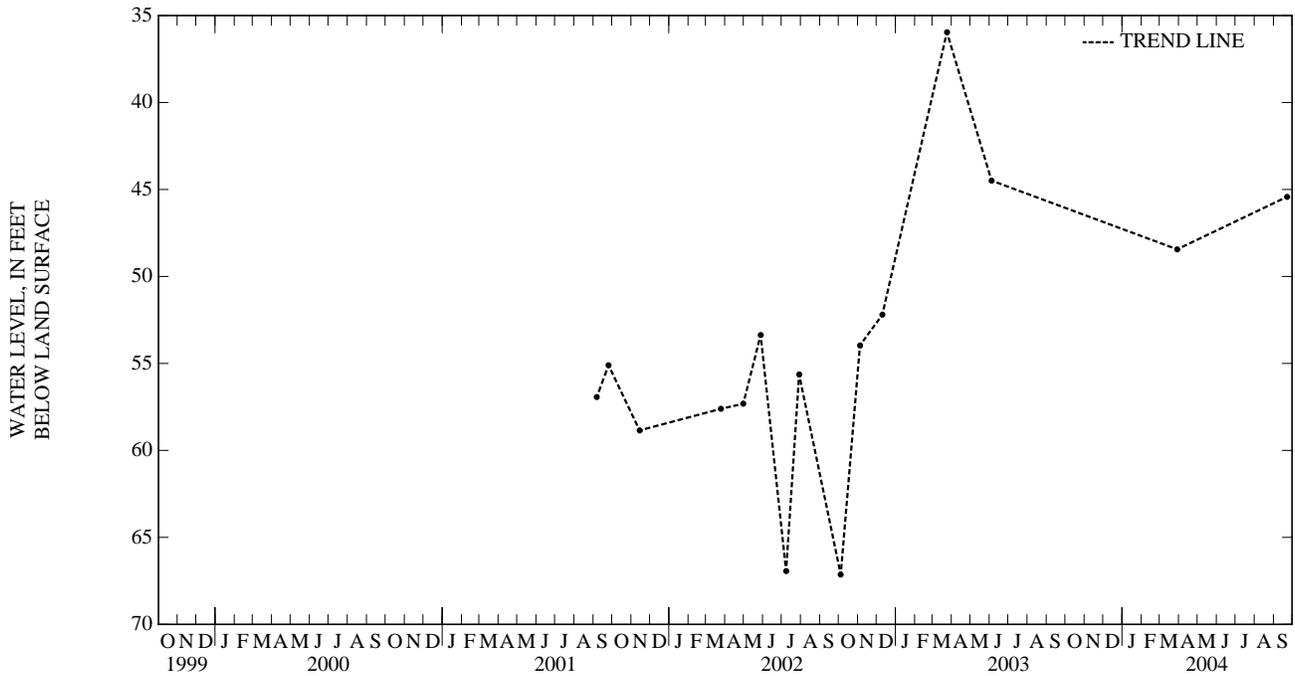
REMARKS.--Water levels of Nov. 14, 2001 and July 8, 2002 result of well having been recently pumped.

PERIOD OF RECORD.--September 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.96 ft below land-surface datum, Mar. 24, 2003; lowest measured, 57.61 ft below land-surface datum, Mar. 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29	48.44	SEP 22	45.42
WATER YEAR 2004 HIGHEST 45.42 SEP 22, 2004 LOWEST 48.44 MAR 29, 2004			



FREDERICK COUNTY—Continued

390730078160801. Local number, 44X 2.

LOCATION.--Lat 39°07'30.36", long 78°16'08.21", NAD83, Hydrologic Unit 02070006, 0.8 mi. northwest of the intersection of Barley Lane and Middle Road and 300 ft north of Barley Lane. Owner: Sam Dillender.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 360 ft, cased to 99 ft, open hole 99 to 360 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 950 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum.

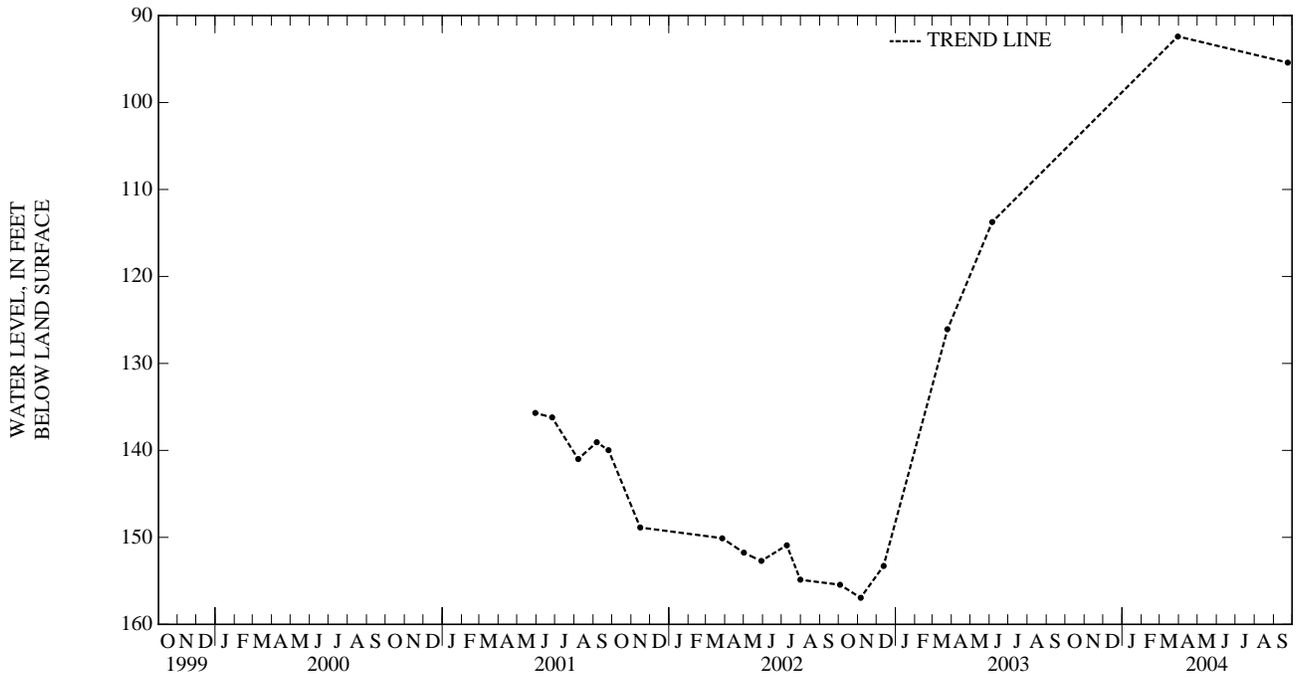
REMARKS.--Water levels of Aug. 7, 2001 and July 31, 2002 result of well having been recently pumped.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.40 ft below land-surface datum, Mar. 30, 2004; lowest measured, 155.45 ft below land-surface datum, Oct. 3, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	92.40	SEP 23	95.41
WATER YEAR 2004 HIGHEST 92.40 MAR 30, 2004 LOWEST 95.41 SEP 23, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390849078154201. Local number, 44X 5.

LOCATION.--Lat 39°08'49.11", long 78°15'42.36", NAD83, Hydrologic Unit 02070004, 850 ft southeast of the intersection of Cedar Creek Grade and Perry Road. Owner: Marker-Miller Orchards.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 1200 ft, cased to 40 ft, open hole 40 to 1200 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 920 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

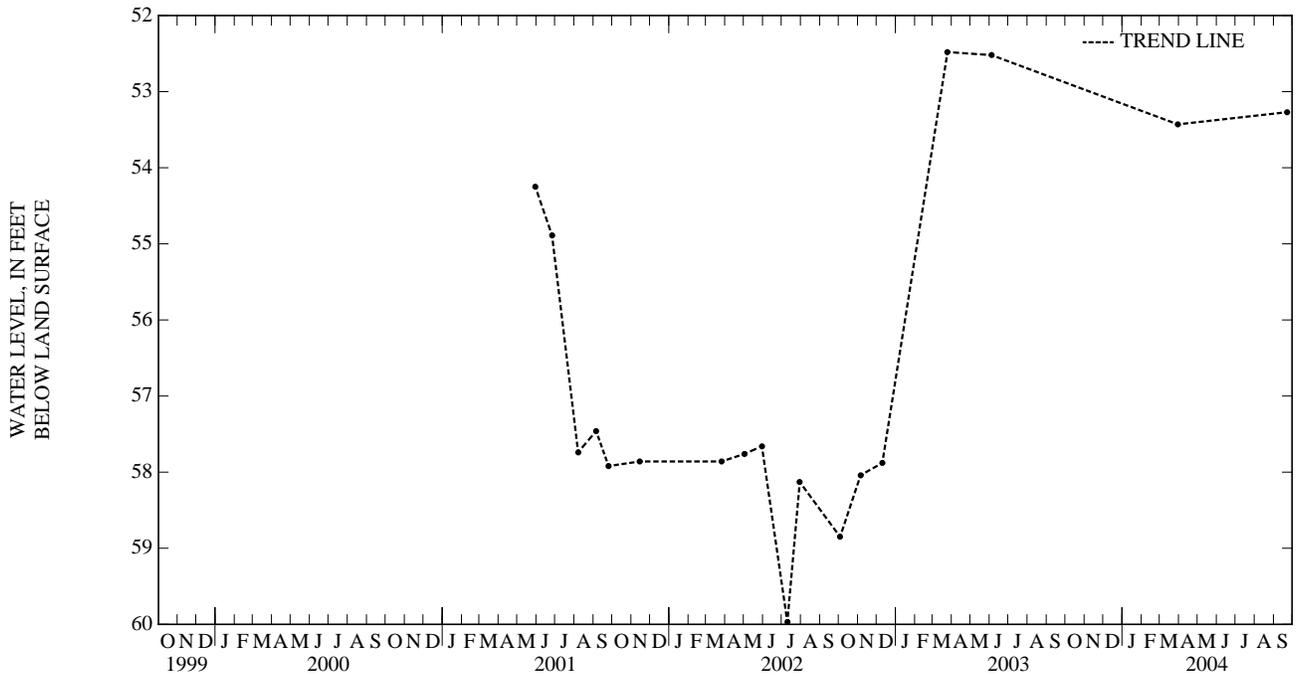
REMARKS.--Water level of Sept. 25, 2001 result of well having been recently pumped.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.48 ft below land-surface datum, Mar. 25, 2003; lowest measured, 59.97 ft below land-surface datum, July 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	53.43	SEP 22	53.27
WATER YEAR 2004 HIGHEST 53.27 SEP 22, 2004 LOWEST 53.43 MAR 30, 2004			



FREDERICK COUNTY—Continued

390846078164201. Local number, 44X 6.

LOCATION.--Lat 39°08'46.34", long 78°16'41.60", NAD83, Hydrologic Unit 02070006, 0.40 mi. northwest of the intersection of Cedar Creek Grade and West Oaks Lane and 0.18 mi. southwest of West Oaks Lane. Owner: Snapp Brothers Orchard.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 160 ft, cased to 99 ft, open hole 99 to 160 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

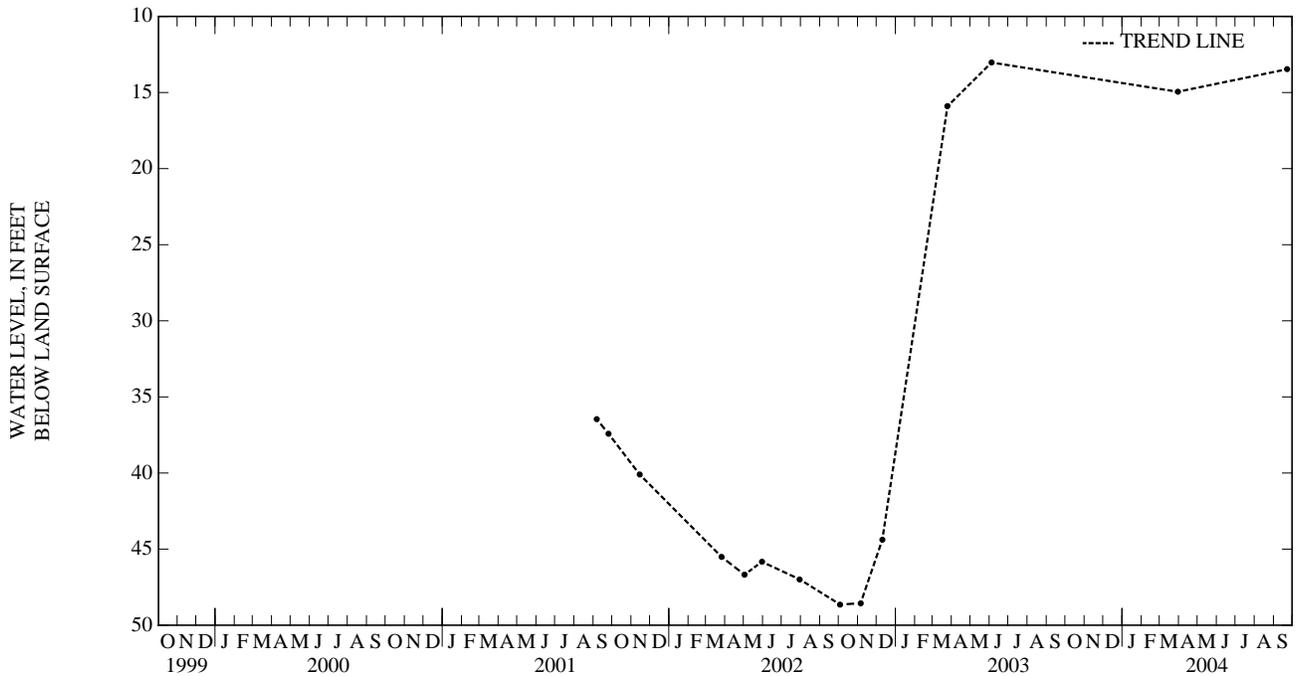
DATUM.--Elevation of land-surface datum is 920 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--September 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.03 ft below land-surface datum, June 4, 2003; lowest measured, 48.64 ft below land-surface datum, Oct. 3, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	14.95	SEP 22	13.47
WATER YEAR 2004 HIGHEST 13.47 SEP 22, 2004 LOWEST 14.95 MAR 30, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390542078145901. Local number, 45W 16.

LOCATION.--Lat 39°05'42.07", long 78°14'59.01", NAD83, Hydrologic Unit 02070007, 0.20 mi. northwest of the intersection of Marlboro Road and Carters Lane and 0.14 mi. north of Marlboro Road. Owner: Harold G. Nichols.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

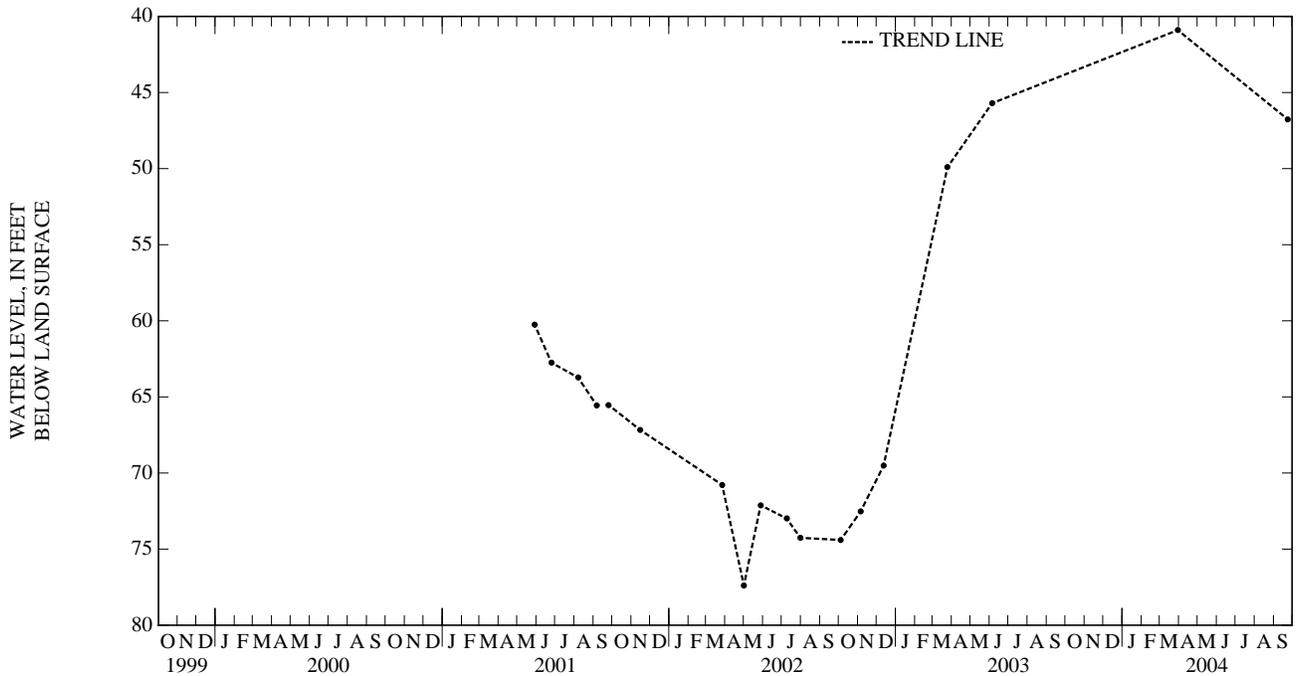
DATUM.--Elevation of land-surface datum is 835 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.90 ft below land-surface datum, Mar. 30, 2004; lowest measured, 77.39 ft below land-surface datum, May 1, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	40.90	SEP 23	46.76
WATER YEAR 2004 HIGHEST 40.90 MAR 30, 2004		LOWEST 46.76 SEP 23, 2004	



FREDERICK COUNTY—Continued

390605078134701. Local number, 45W 17.

LOCATION.--Lat 39°06'04.78", long 78°13'47.19", NAD83, Hydrologic Unit 02070007, 1.18 mi. southwest of the intersection of Springdale Road and Baltimore & Ohio Railroad and 0.28 mi. southeast of Springdale Road. Owner: Long Creek Farm.

AQUIFER.--Pinesburg Station Dolomite and Rockdale Run Formation of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 400 ft, cased to 60 ft, open hole 60 to 400 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 785 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

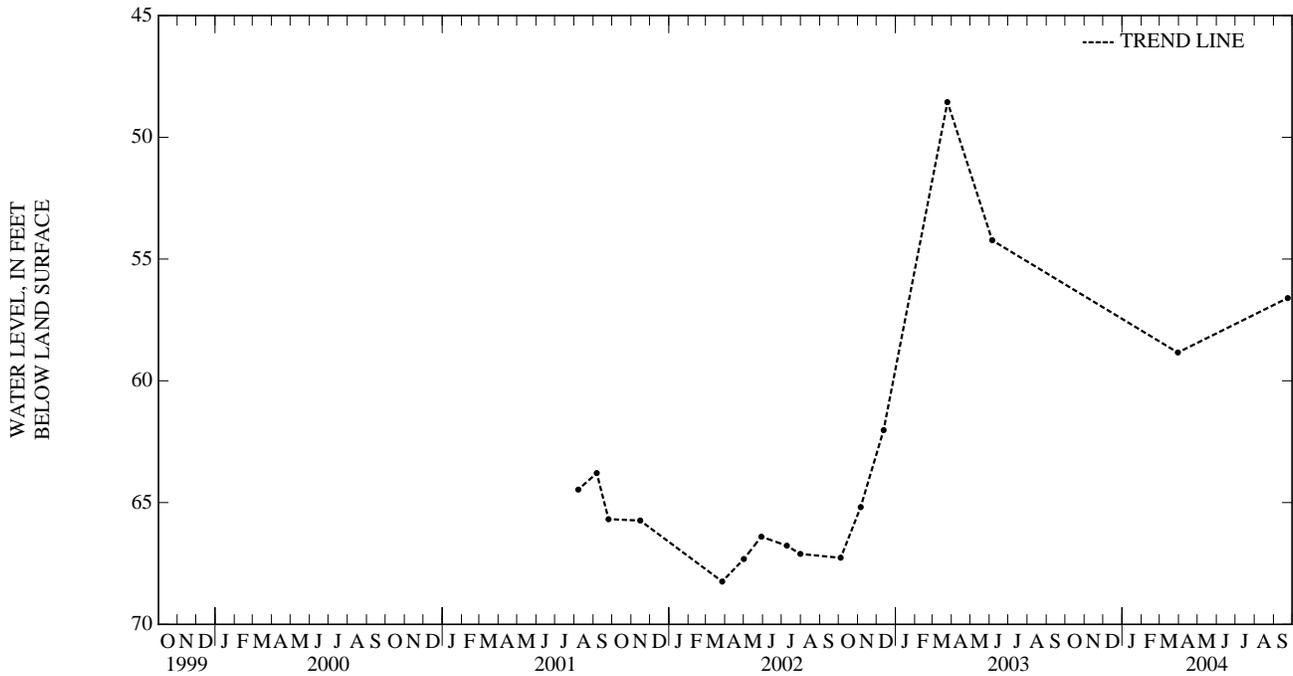
REMARKS.--Water levels of Sept. 25, 2001, Mar. 27 and May 1, 2002 are the result of well having been recently pumped.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.55 ft below land-surface datum, Mar. 25, 2003; lowest measured, 67.27 ft below land-surface datum, Oct. 4, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	58.84	SEP 23	56.60
WATER YEAR 2004 HIGHEST 56.60 SEP 23, 2004 LOWEST 58.84 MAR 30, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390927078144801. Local number, 45X 3.

LOCATION.--Lat 39°09'27.33", long 78°14'48.08", NAD83, Hydrologic Unit 02070004, 90 ft north of the intersection of Cedar Creek Grade and Miller Road and 20 ft west of Miller Road. Owner: Second Opequon Presbyterian Church.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

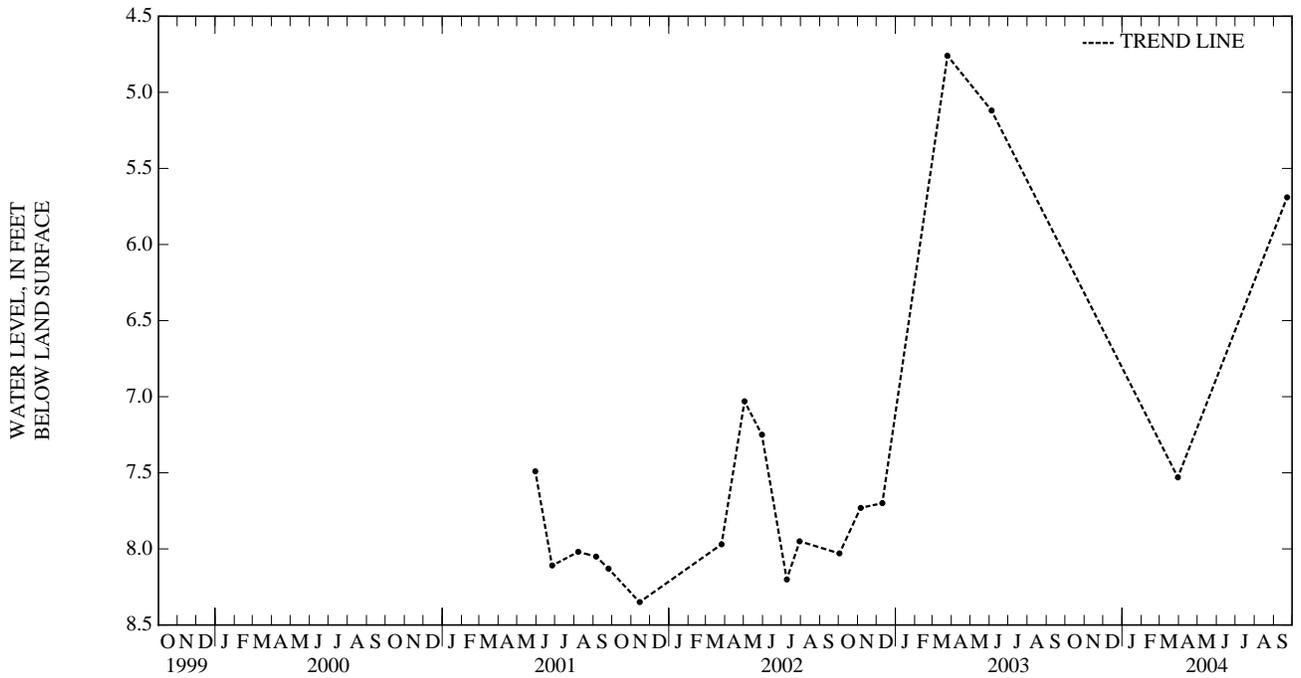
DATUM.--Elevation of land-surface datum is 834.48 ft above NGVD of 1929. Measuring point: Top of 6 in. protector casing, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.76 ft below land-surface datum, Mar. 25, 2003; lowest measured, 8.35 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	7.53	SEP 22	5.69
WATER YEAR 2004 HIGHEST 5.69 SEP 22, 2004 LOWEST 7.53 MAR 30, 2004			



FREDERICK COUNTY—Continued

391139078141501. Local number, 45X 4.

LOCATION.--Lat 39°11'38.62", long 78°14'14.74", NAD83, Hydrologic Unit 02070004, 0.33 mi. west of the intersection of U.S. Highway 50 and Poorhouse Road and 150 ft south of U.S. Highway 50. Owner: Round Hill United Methodist Church.

AQUIFER.--Martinsburg Formation of Middle to Upper Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 920 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

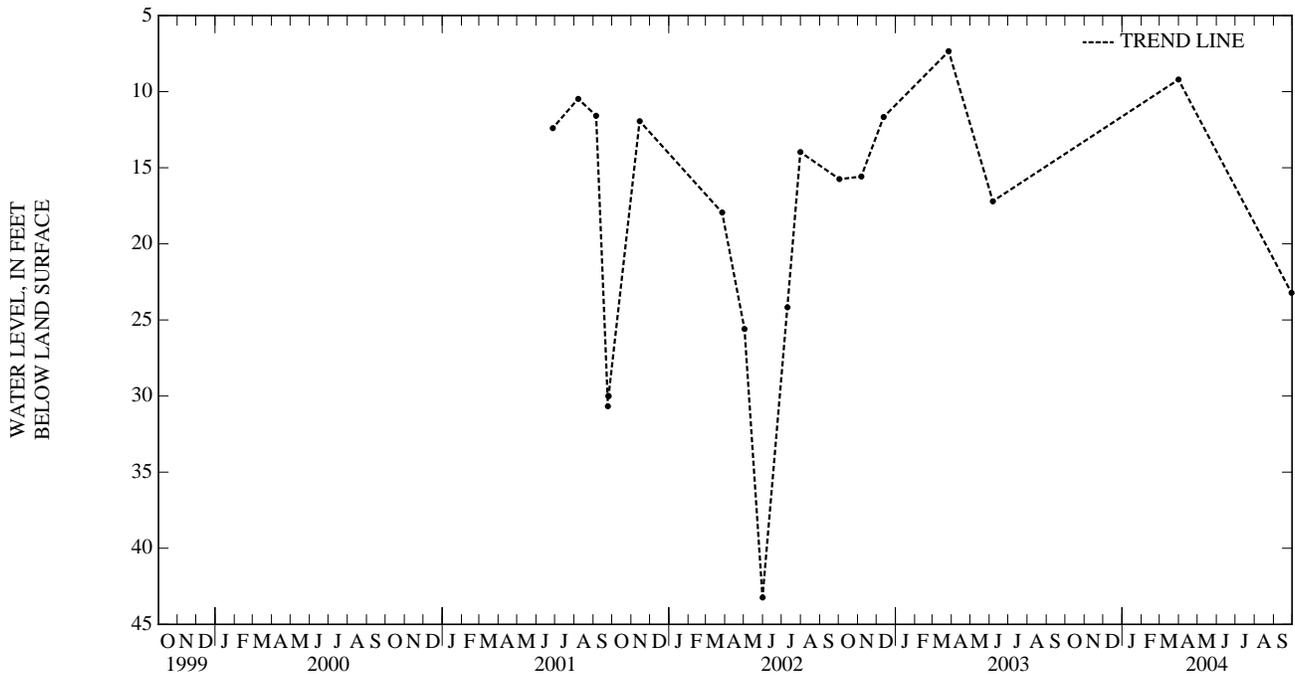
REMARKS.--Water levels of Sept. 24, 25, 2001 and May 2, 31, 2002 are the result of well having been recently pumped.

PERIOD OF RECORD.--June 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.35 ft below land-surface datum, Mar. 27, 2003; lowest measured, 24.17 ft below land-surface datum, July 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	9.21	SEP 29	23.22
WATER YEAR 2004 HIGHEST 9.21 MAR 31, 2004 LOWEST 23.22 SEP 29, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391339078120701. Local number, 45X 9.

LOCATION.--Lat 39°13'39.42", long 78°12'07.18", NAD83, Hydrologic Unit 02070004, 910 ft northwest of the intersection of Burnt Church Road and U.S. Highway 522 and 170 ft north of Burnt Church Road. Owner: Burnt Presbyterian Church.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

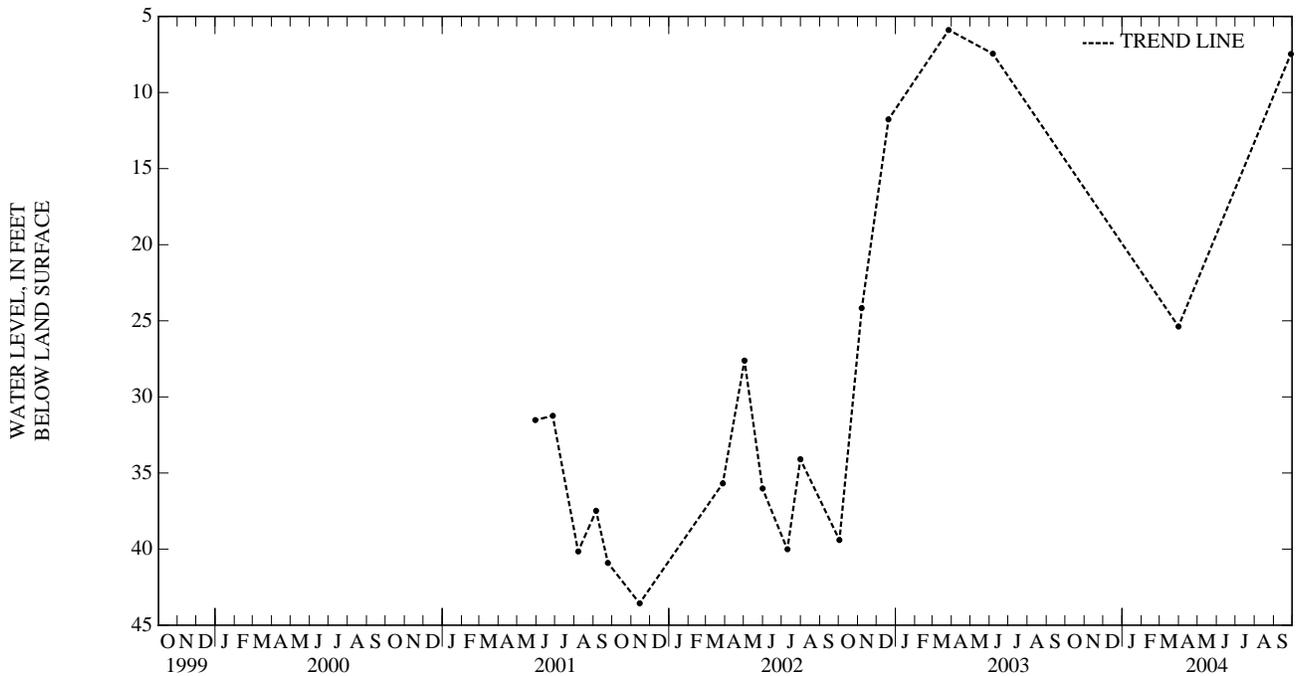
DATUM.--Elevation of land-surface datum is 925 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.28 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.89 ft below land-surface datum, Mar. 27, 2003; lowest measured, 43.56 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	25.37	SEP 28	7.47
WATER YEAR 2004 HIGHEST 7.47 SEP 28, 2004 LOWEST 25.37 MAR 31, 2004			



FREDERICK COUNTY—Continued

391233078133801. Local number, 45X 11.

LOCATION.--Lat 39°12'32.80", long 78°13'38.48", NAD83, Hydrologic Unit 02070004, 0.80 mi. southwest of the intersection of Poorhouse Road and Indian Hollow Road and 60 ft east of Poorhouse Road. Owner: Charles W. Racey.

AQUIFER.--Martinsburg Formation of Middle to Upper Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 300 ft, cased to 59 ft, open hole 59 to 300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

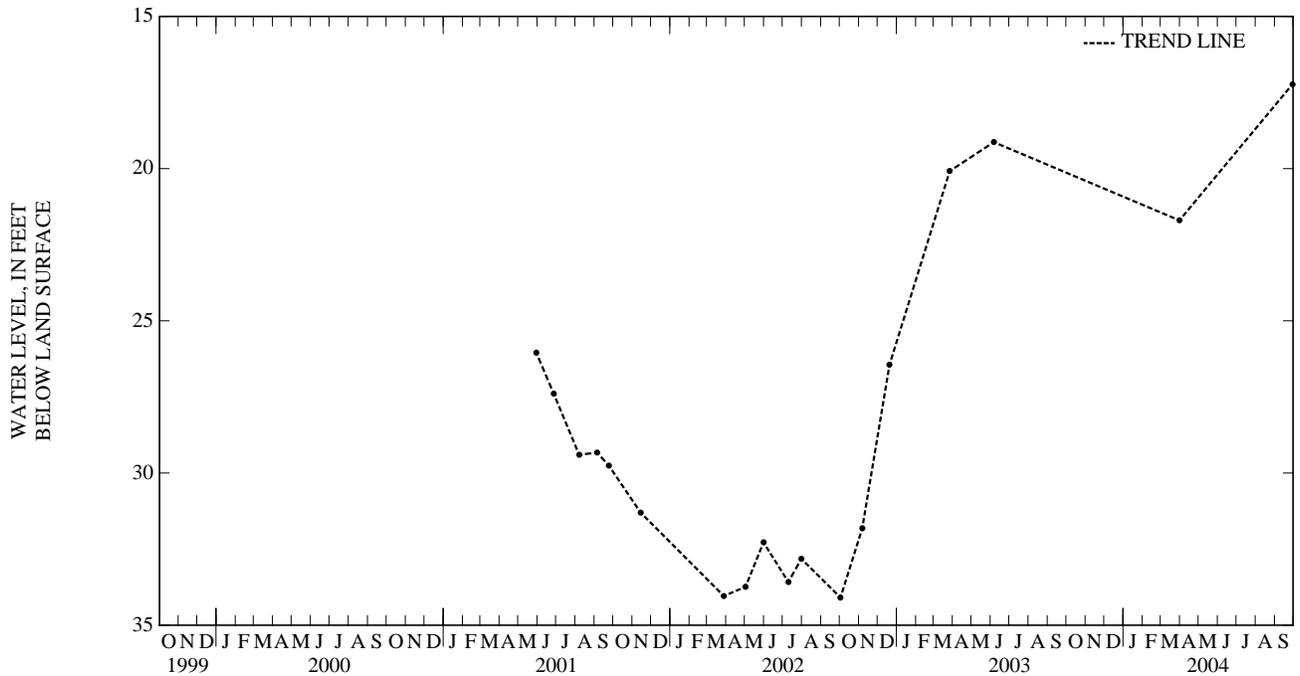
DATUM.--Elevation of land-surface datum is 945 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.23 ft below land-surface datum, Sept. 29, 2004; lowest measured, 34.09 ft below land-surface datum, Oct. 2, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	21.70	SEP 29	17.23
WATER YEAR 2004 HIGHEST 17.23 SEP 29, 2004 LOWEST 21.70 MAR 31, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390754078133201. Local number, 45X 12.

LOCATION.--Lat 39°07'54.05", long 78°13'32.05", NAD83, Hydrologic Unit 02070004, 750 ft west of the northern intersection of Middle Road and Old Middle Road and 330 ft northwest of Middle Road. Owner: Terry Livermore.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 180 ft, cased to 59 ft, open hole 59 to 180 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

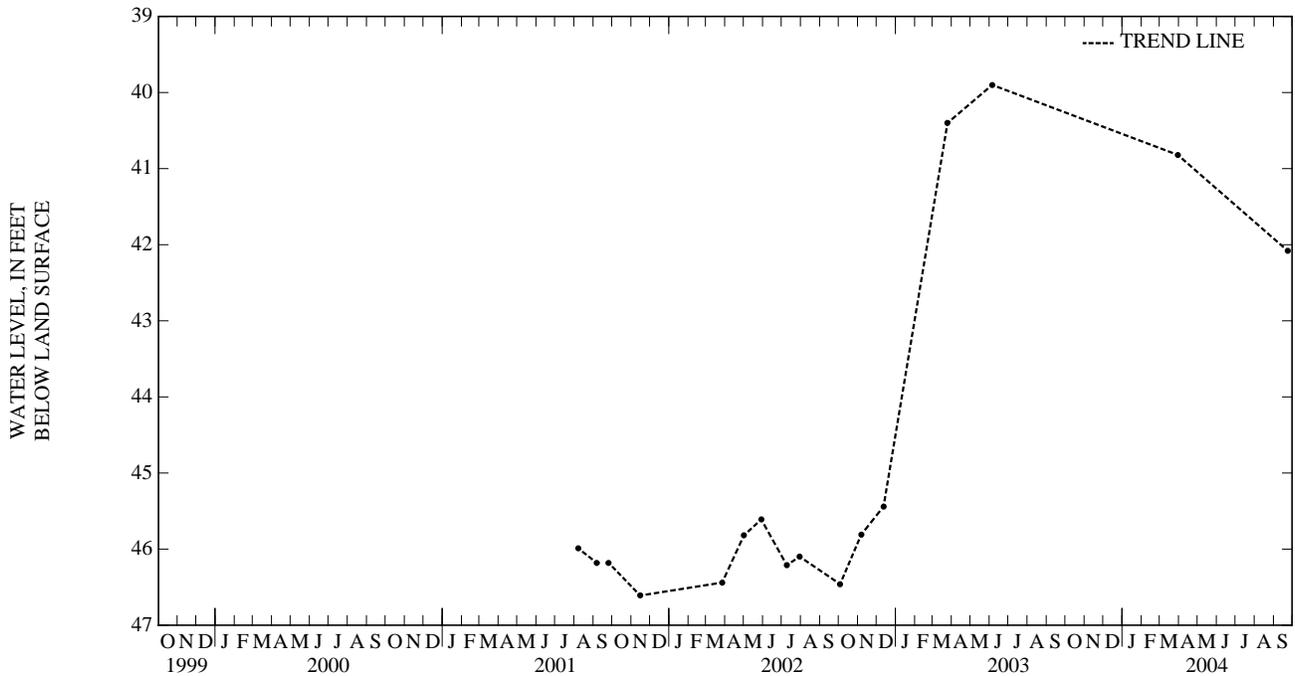
DATUM.--Elevation of land-surface datum is 800 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.90 ft below land-surface datum, June 5, 2003; lowest measured, 46.61 ft below land-surface datum, Nov. 15, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	40.82	SEP 23	42.08
WATER YEAR 2004 HIGHEST 40.82 MAR 30, 2004 LOWEST 42.08 SEP 23, 2004			



FREDERICK COUNTY—Continued

390748078143301. Local number, 45X 13.

LOCATION.--Lat 39°07'48.18", long 78°14'32.78", NAD83, Hydrologic Unit 02070004, 0.7 mi. west of the southern intersection of Middle Road and Old Middle Road and 0.3 mi. northwest of Middle Road. Owner: Scott Gregory.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 250 ft, cased to 30 ft, open hole 30 to 250 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

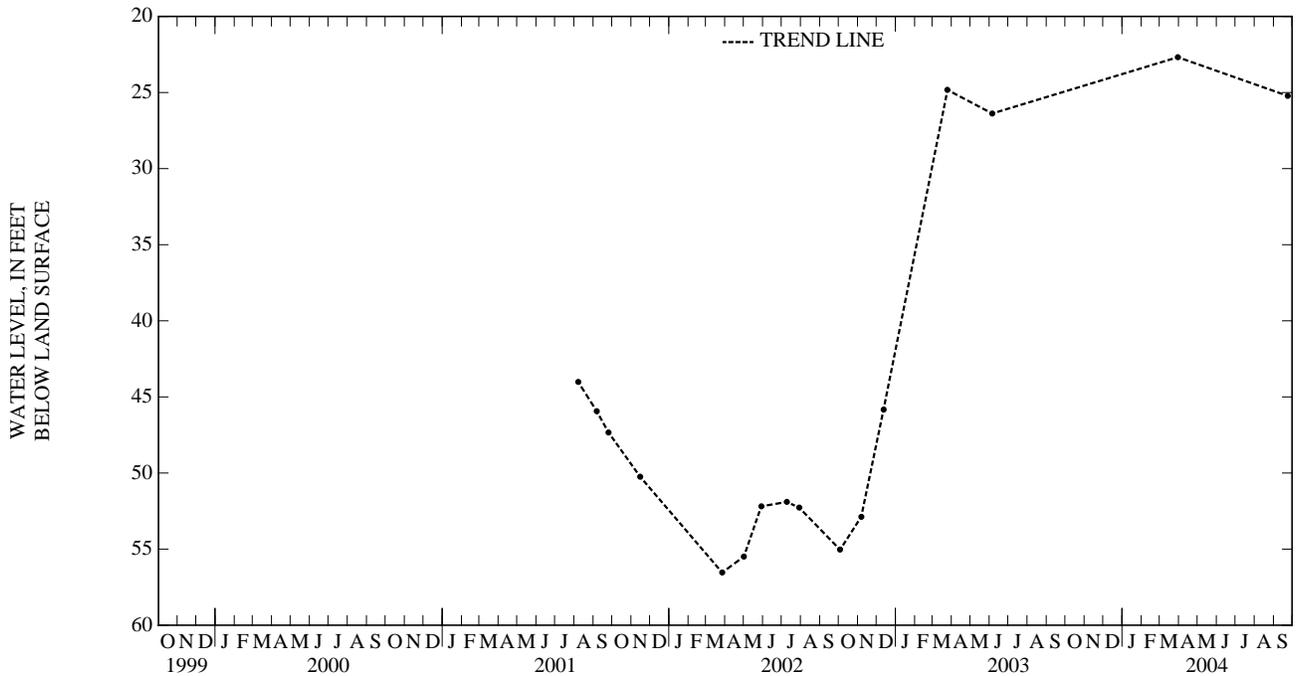
DATUM.--Elevation of land-surface datum is 860 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.68 ft below land-surface datum, Mar. 30, 2004; lowest measured, 56.54 ft below land-surface datum, Mar. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	22.68	SEP 23	25.22
WATER YEAR 2004 HIGHEST 22.68 MAR 30, 2004		LOWEST 25.22 SEP 23, 2004	



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

390930078134601. Local number, 45X 14.

LOCATION.--Lat 39°09'30.20", long 78°13'45.62", NAD83, Hydrologic Unit 02070004, 0.55 mi. west of the intersection of Cedar Creek Grade and Merriman Road and 280 ft southeast of Cedar Creek Grade. Owner: Ron Leffler.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 250 ft, cased to 84 ft, open hole 84 to 250 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

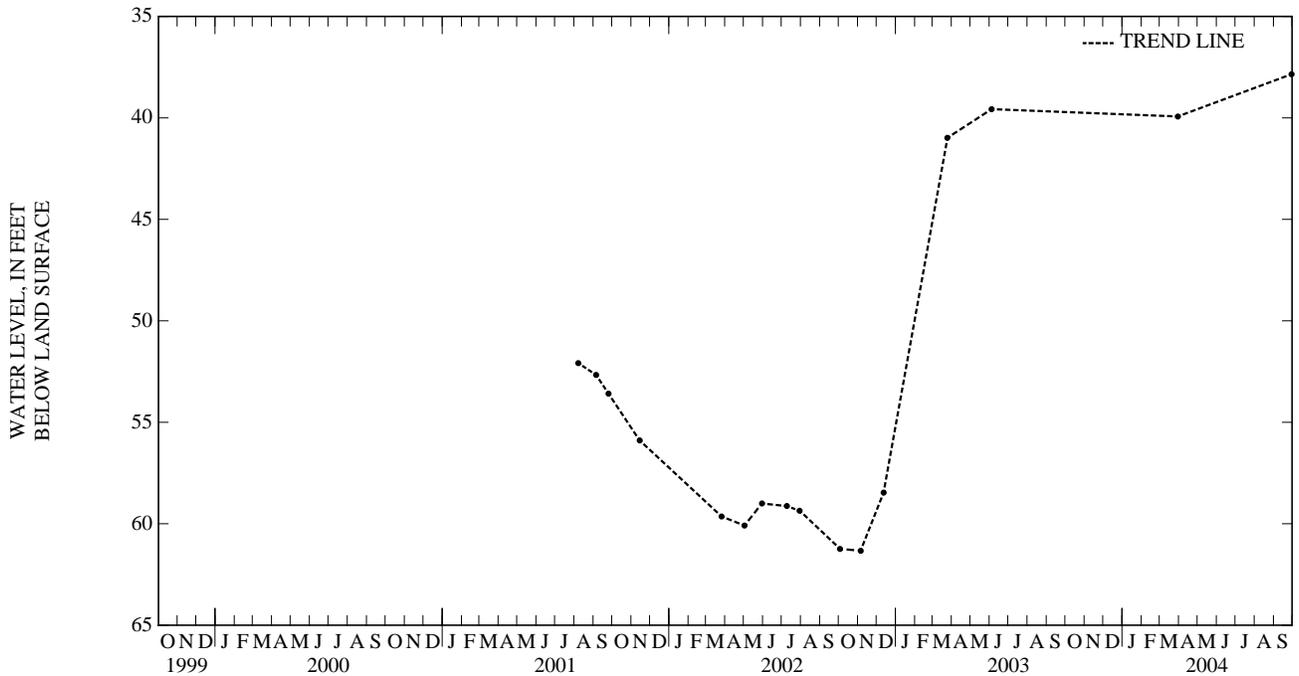
DATUM.--Elevation of land-surface datum is 850 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.85 ft below land-surface datum, Sept. 29, 2004; lowest measured, 61.33 ft below land-surface datum, Nov. 5, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	39.93	SEP 29	37.85
WATER YEAR 2004 HIGHEST 37.85 SEP 29, 2004		LOWEST 61.33 MAR 30, 2004	



FREDERICK COUNTY—Continued

390928078140001. Local number, 45X 15.

LOCATION.--Lat 39°09'28.14", long 78°13'59.75", NAD83, Hydrologic Unit 02070004, 0.76 mi. west of the intersection of Cedar Creek Grade and Merriman Road and 325 ft south of Cedar Creek Grade. Owner: Edith B. Miller.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 120 ft, cased to 99 ft, open hole 99 to 120 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

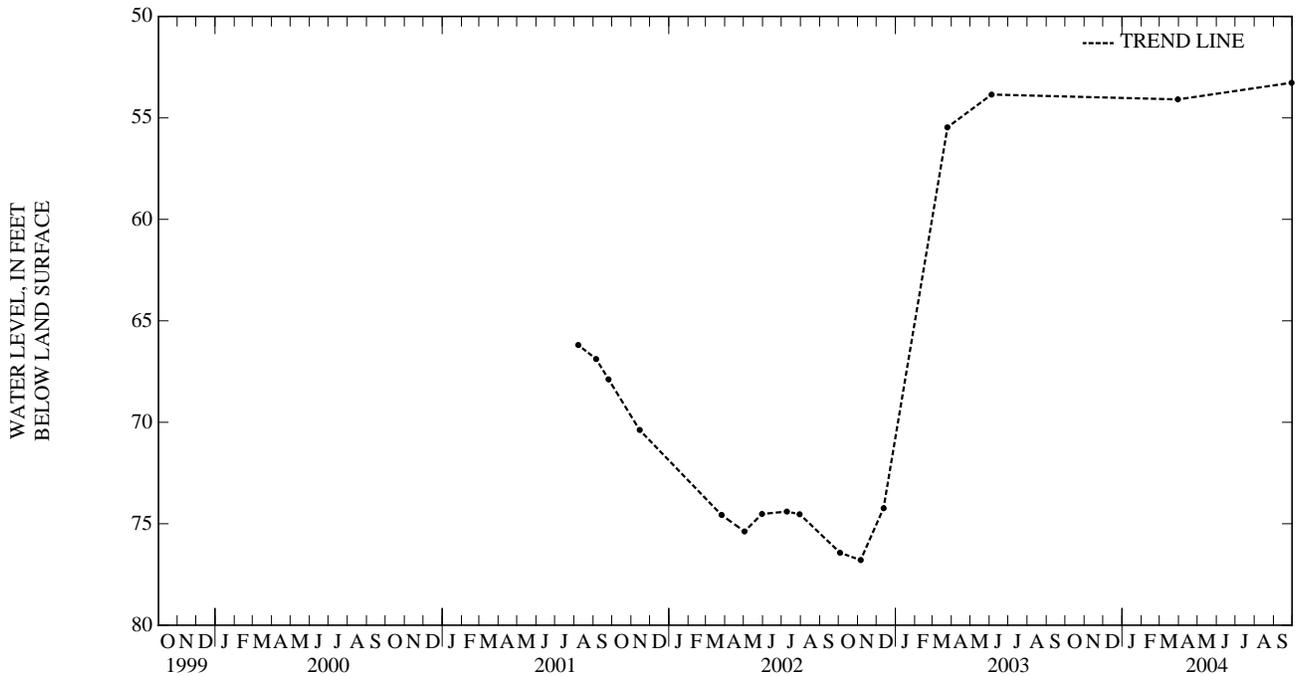
DATUM.--Elevation of land-surface datum is 865 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.27 ft below land-surface datum, Sept. 29, 2004; lowest measured, 76.79 ft below land-surface datum, Nov. 5, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	54.09	SEP 29	53.27
WATER YEAR 2004 HIGHEST 53.27 SEP 29, 2004 LOWEST 54.09 MAR 30, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391101078121001. Local number, 45X 18.

LOCATION.--Lat 39°11'00.80", long 78°12'10.31", NAD83, Hydrologic Unit 02070004, 225 ft southeast of County highway 37 and 670 ft southwest of the intersection of Dutton Place and Wayland Drive. Owner: George W. Glaize, Jr.

AQUIFER.--Conococheague Formation of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 805 ft above sea level, NGVD29, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--December 2002 to current year.

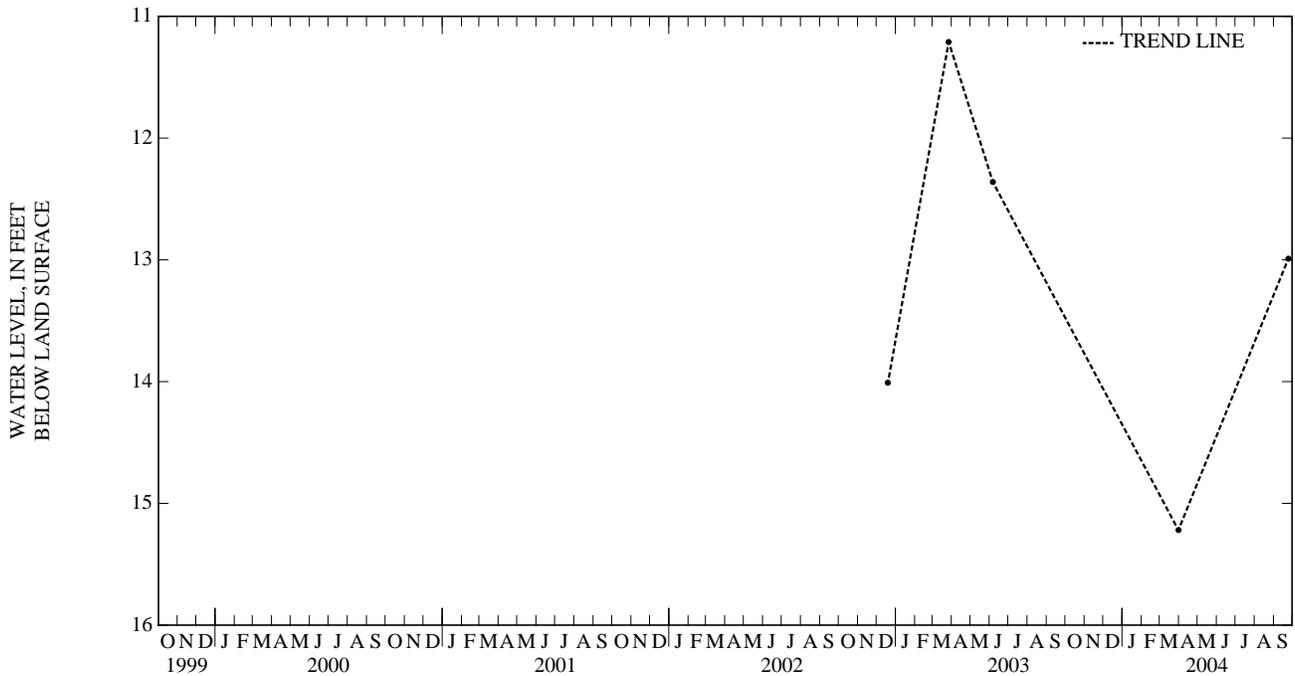
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.21 ft below land-surface datum, Mar. 27, 2003 ; lowest measured, 15.22 ft below land-surface datum, Mar. 31, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 19	14.01	MAR 27	11.21	JUN 06	12.36
WATER YEAR 2003 HIGHEST 11.21 MAR 27, 2003		LOWEST 14.01 DEC 19, 2002			

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	15.22	SEP 24	12.99
WATER YEAR 2004 HIGHEST 12.99 SEP 24, 2004		LOWEST 15.22 MAR 31, 2004	



FREDERICK COUNTY—Continued

391101078121101. Local number, 45X 19.

LOCATION.--Lat 39°11'00.62", long 78°12'11.44", NAD83, Hydrologic Unit 02070004, 150 ft southeast of County highway 37 and 760 ft southwest of the intersection of Dutton Place and Wayland Drive. Owner: George W. Glaize, Jr.

AQUIFER.--Conococheague Formation of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 170 ft, cased to 120 ft, open hole 120 to 170 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 790 ft above sea level, NGVD29, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--December 2002 to current year.

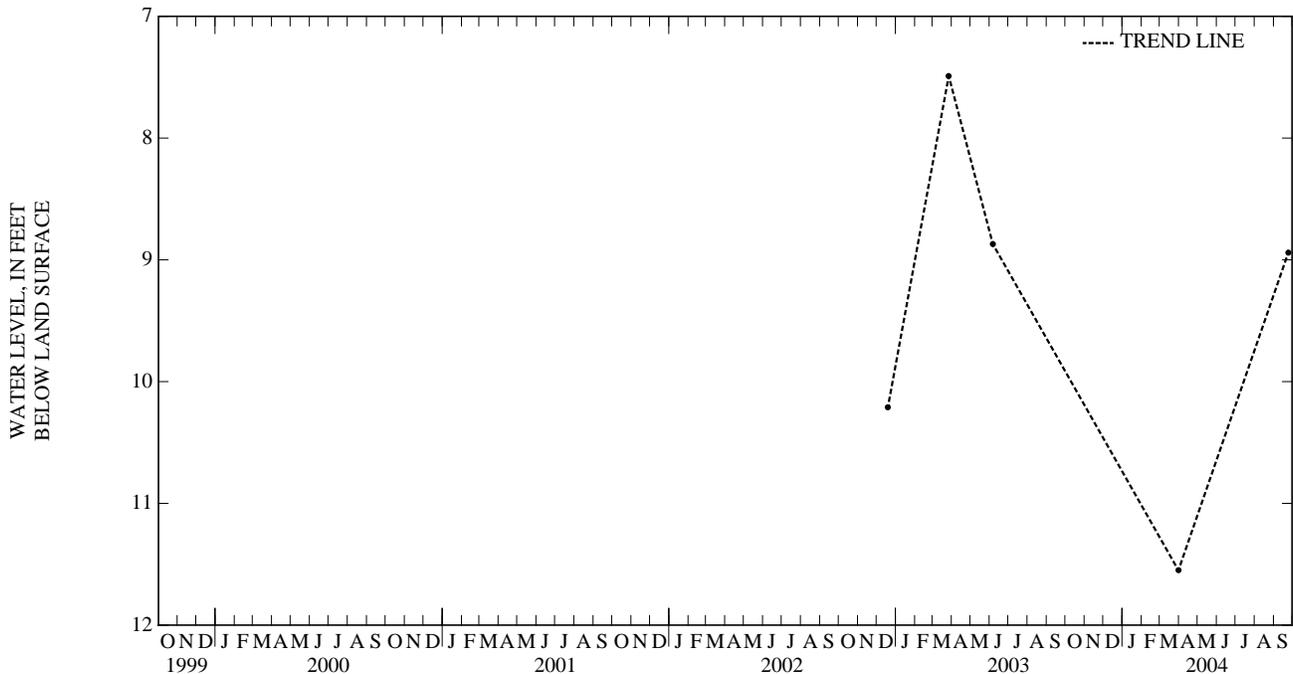
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.49 ft below land-surface datum, Mar. 27, 2003; lowest measured, 11.55 ft below land-surface datum, Mar. 31, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 19	10.21	MAR 27	7.49	JUN 06	8.87
WATER YEAR 2003 HIGHEST 7.49 MAR 27, 2003 LOWEST 10.21 DEC 19, 2002					

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	11.55	SEP 24	8.94
WATER YEAR 2004 HIGHEST 8.94 SEP 24, 2004 LOWEST 11.55 MAR 31, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391107078120801. Local number, 45X 20.

LOCATION.--Lat 39°11'07.27", long 78°12'07.93", NAD83, Hydrologic Unit 02070004, 110 ft southeast of County highway 37 and 715 ft northwest of the intersection of Dutton Place and Wayland Drive. Owner: George W. Glaize, Jr.

AQUIFER.--Conococheague Formation of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 440 ft, cased to 120 ft, open hole 120 to 440 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 815 ft above sea level, NGVD29, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--December 2002 to current year.

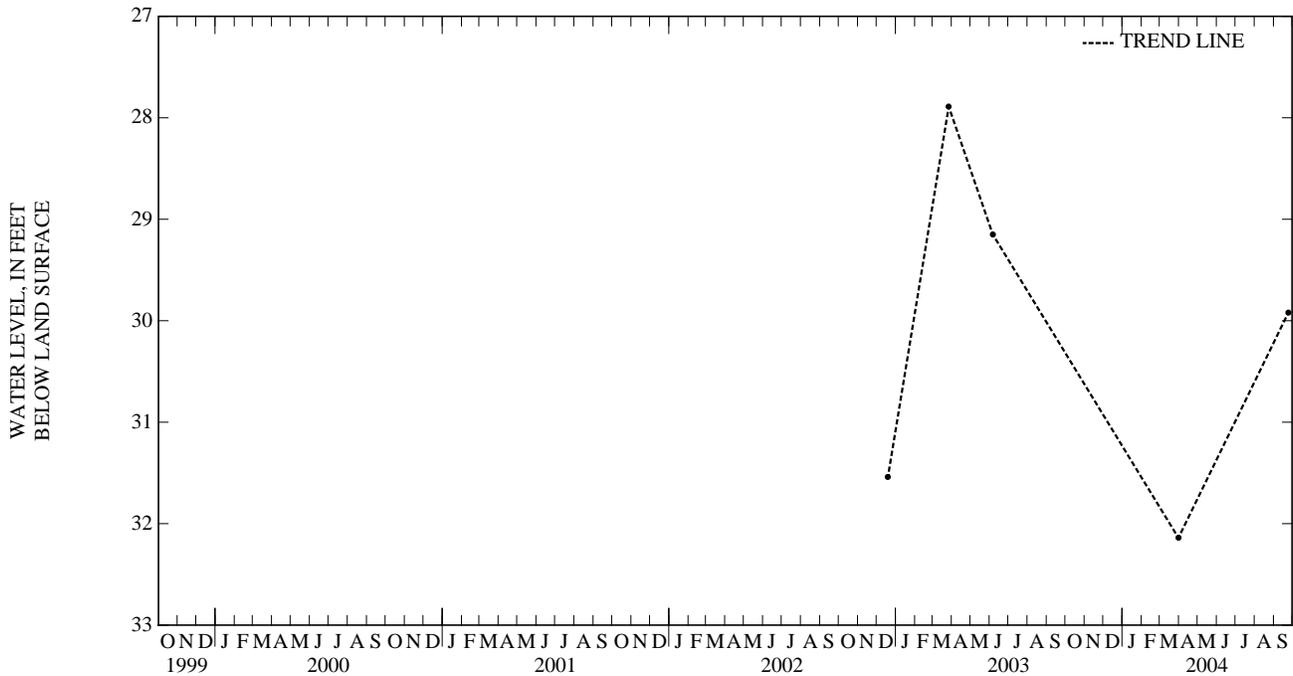
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.89 ft below land-surface datum, Mar. 27, 2003; lowest measured, 32.14 ft below land-surface datum, Mar. 31, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 19	31.54	MAR 27	27.89	JUN 06	29.15
WATER YEAR 2003 HIGHEST		27.89 MAR 27, 2003	LOWEST		31.54 DEC 19, 2002

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL		
MAR 31	32.14	SEP 24	29.92		
WATER YEAR 2004 HIGHEST		29.92 SEP 24, 2004	LOWEST		32.14 MAR 31, 2004



FREDERICK COUNTY—Continued

391605078083601. Local number, 45Y 1.

LOCATION.--Lat 39°16'05.35", long 78°08'36.08", NAD83, Hydrologic Unit 02070004, 0.6 mi. northwest of the intersection of Branson Spring Road and Welltown Road. Owner: D.K. Russell & Sons, Inc.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Dug domestic water well, depth 24.22 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

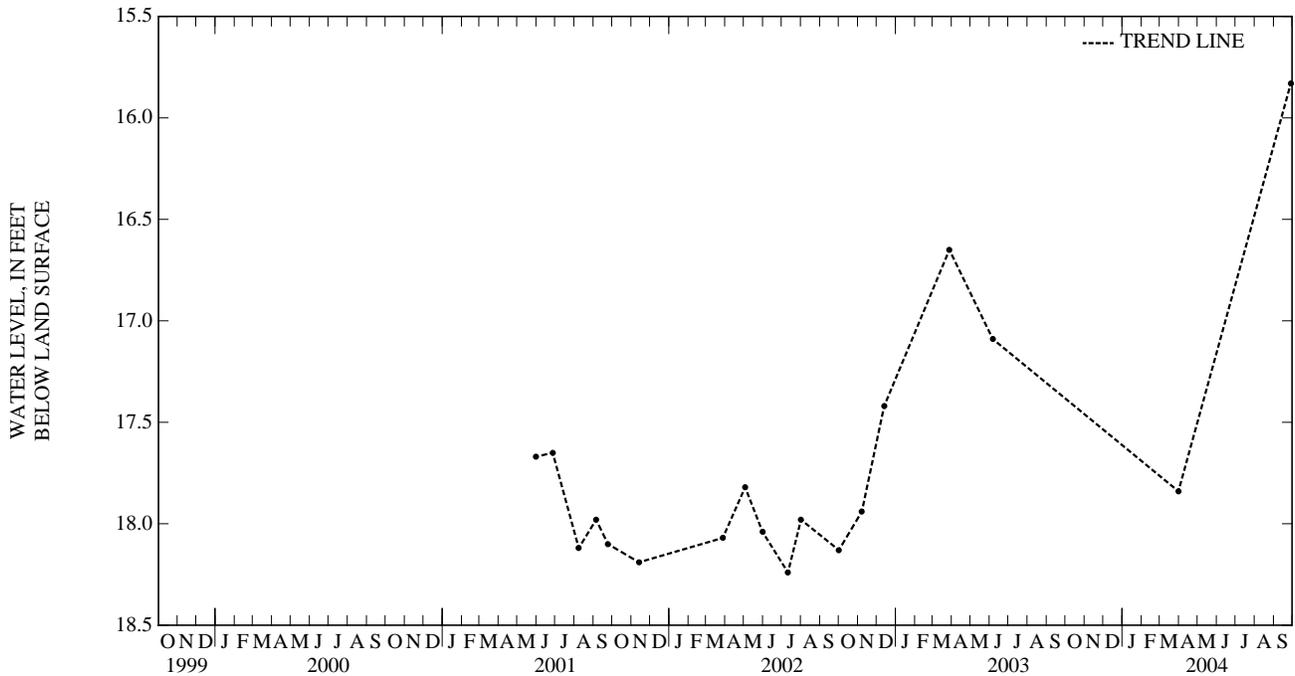
DATUM.--Elevation of land-surface datum is 820 ft above NGVD of 1929, from topographic map. Measuring point: Top of concrete slab cover, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.83 ft below land-surface datum, Sept. 28, 2004; lowest measured, 18.24 ft below land-surface datum, July 11, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	17.84	SEP 28	15.83
WATER YEAR 2004 HIGHEST 15.83 SEP 28, 2004 LOWEST 17.84 MAR 31, 2004			



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391524078080701. Local number, 45Y 2.

LOCATION.--Lat 39°15'24.46", long 78°08'07.07", NAD83, Hydrologic Unit 02070004, 0.23 mi. northwest of the intersection of Hiatt Road and Welltown Road and 370 ft west of Welltown Road. Owner: D.K. Russell & Sons, Inc.

AQUIFER.--Pinesburg Station Dolomite and Rockdale Run Formation of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 100 ft, cased to 19 ft, open hole 19 to 100 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 730 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum.

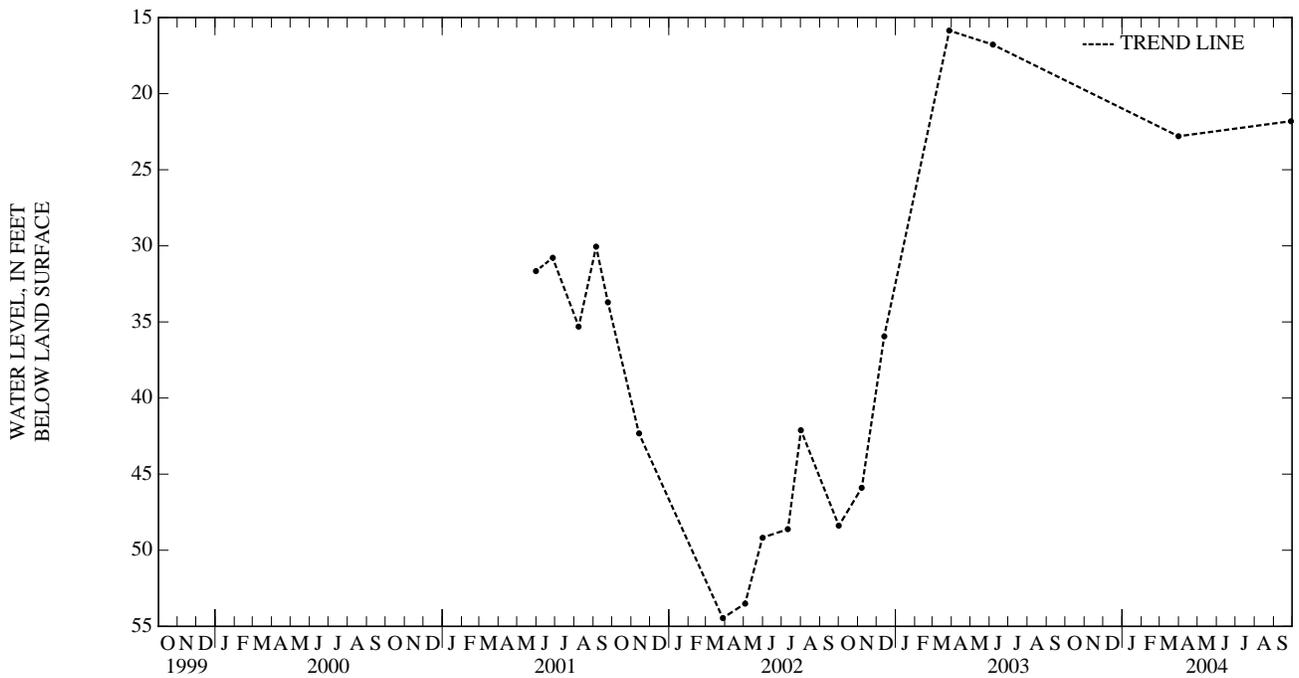
REMARKS.--Water level of Aug. 8, 2001 result of well having been recently pumped.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.86 ft below land-surface datum, Mar. 28, 2003; lowest measured, 54.46 ft below land-surface datum, Mar. 28, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	22.80	SEP 28	21.81
WATER YEAR 2004 HIGHEST 21.81 SEP 28, 2004		LOWEST 22.80 MAR 31, 2004	



FREDERICK COUNTY—Continued

391550078080301. Local number, 45Y 3.

LOCATION.--Lat 39°15'50.47", long 78°08'03.46", NAD83, Hydrologic Unit 02070004, 150 ft northwest of the intersection of Branson Spring Road and Welltown Road and 40 ft north of Branson Spring Road. Owner: Galilee Christian Church.

AQUIFER.--Pinesburg Station Dolomite and Rockdale Run Formation of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

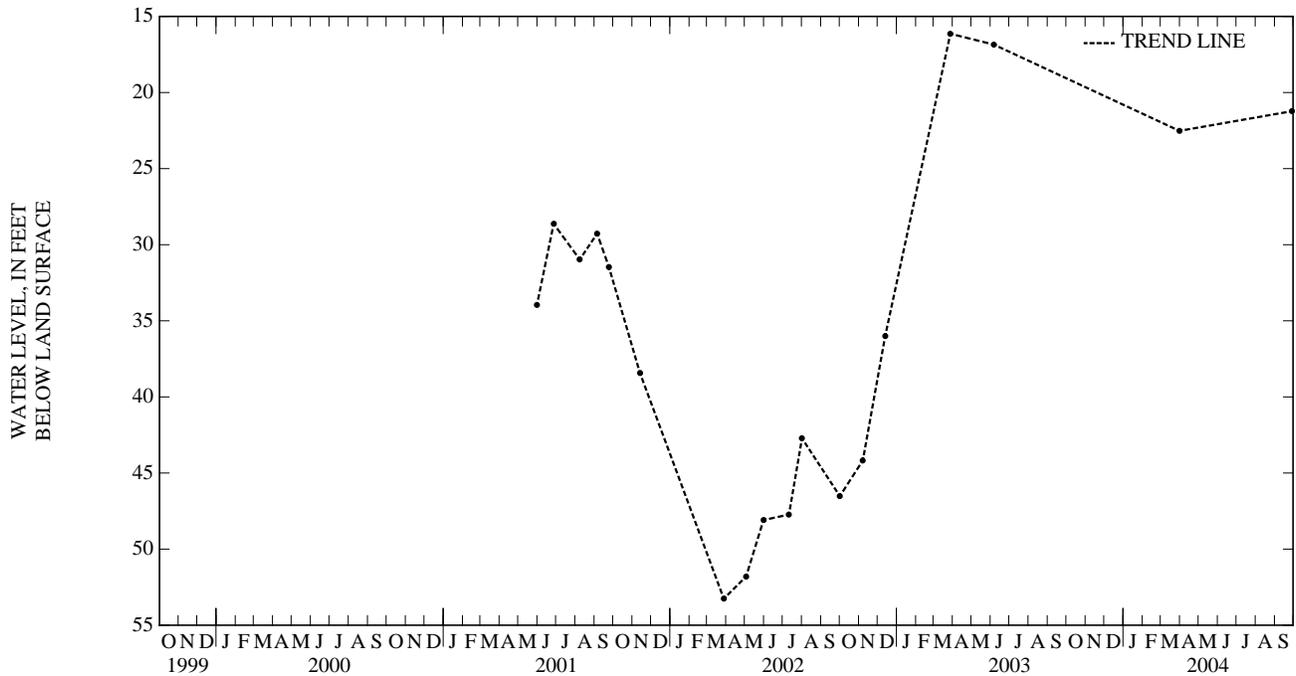
DATUM.--Elevation of land-surface datum is 750 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.14 ft below land-surface datum, Mar. 28, 2003; lowest measured, 53.26 ft below land-surface datum, Mar. 28, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	22.52	SEP 28	21.23
WATER YEAR 2004 HIGHEST 21.23 SEP 28, 2004		LOWEST 22.52 MAR 31, 2004	



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391757078095401. Local number, 45Y 4.

LOCATION.--Lat 39°17'57.22", long 78°09'53.97", NAD83, Hydrologic Unit 02070004, 0.39 mi. northwest of the intersection of White Hall Road and Warm Springs Road and 0.24 mi. southwest of White Hall Road, just north of driveway to Old Stone Church. Owner: Martha Wolfe and Bill Shabb.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Dug unused water well, diameter , depth 20.47 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

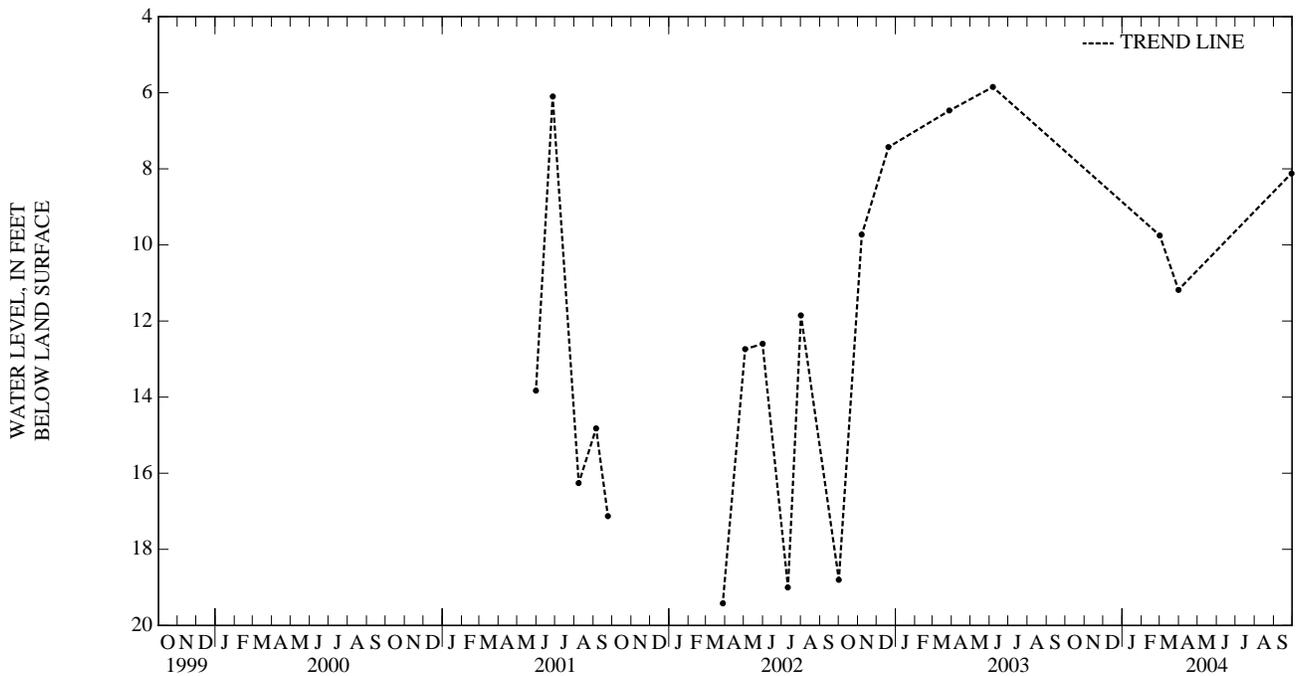
DATUM.--Elevation of land-surface datum is 770 ft above NGVD of 1929, from topographic map. Measuring point: Top of concrete slab at land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.85 ft below land-surface datum, June 26, 2003; well was observed to be dry on Nov. 13, 2001 and Feb. 27, 2002; lowest water level measured, 19.42 ft below land-surface datum, Mar. 28, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	9.75	MAR 31	11.18	SEP 29	8.12
WATER YEAR 2004 HIGHEST		8.12	SEP 29, 2004	LOWEST	
				11.18	MAR 31, 2004



FREDERICK COUNTY—Continued

391757078095402. Local number, 45Y 5.

LOCATION.--Lat 39°17'56.81", long 78°09'54.25", NAD83, Hydrologic Unit 02070004, 0.39 mi. northwest of the intersection of White Hall Road and Warm Springs Road and 0.24 mi. southwest of White Hall Road, just south of driveway to Old Stone Church. Owner: Martha Wolfe and Bill Shabb.

AQUIFER.--Martinsburg Formation of Middle to Upper Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 200 ft, cased to 40 ft, open hole 40 to 200 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval.

DATUM.--Elevation of land-surface datum is 770 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing 2.2 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

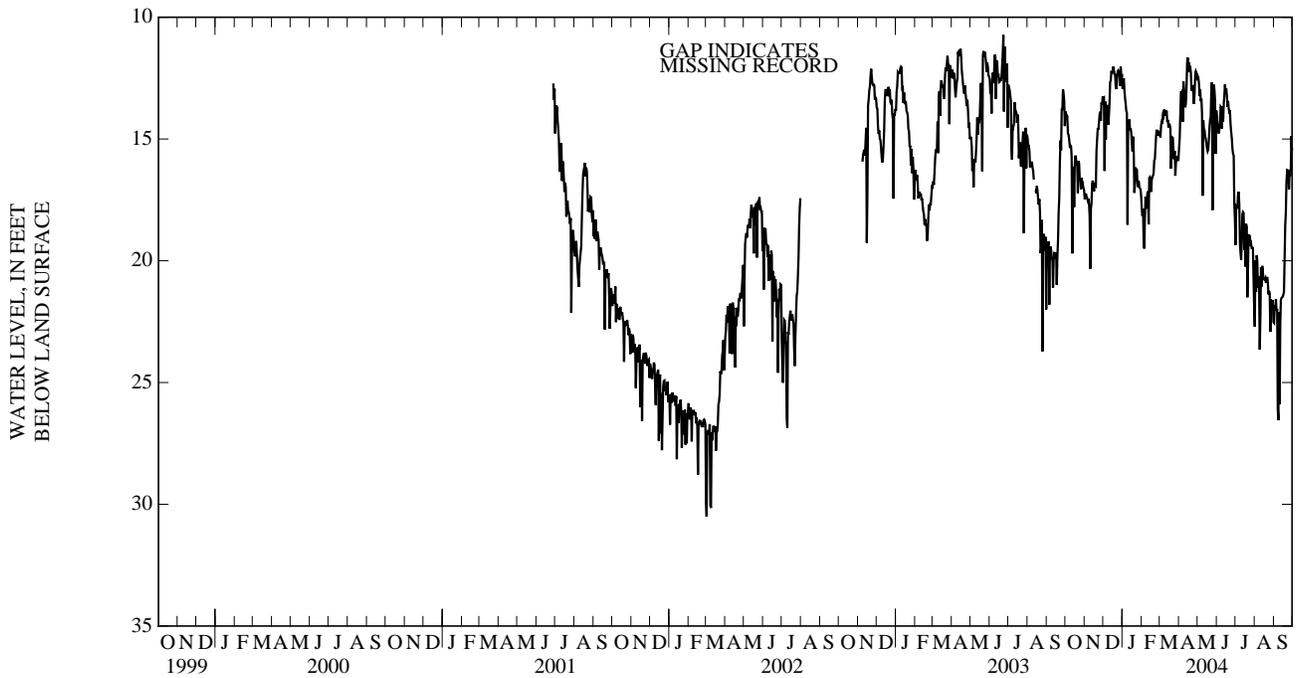
PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 10.34 ft below land-surface datum, June 23, 2003; lowest recorded, 30.51 ft below land-surface datum, Mar. 2, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 11.28 ft below land-surface datum, Apr. 17; lowest instantaneous water level, 26.55 ft below land-surface datum, Sept. 8.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.78	17.44	15.03	13.31	19.50	14.38	13.08	12.95	14.59	17.29	19.99	22.06
10	15.30	20.33	14.04	14.54	17.23	13.82	13.25	14.23	13.67	19.96	22.28	25.89
15	17.80	16.87	12.31	14.75	16.62	14.53	11.66	15.17	13.09	19.56	20.76	21.48
20	16.11	15.48	12.35	17.21	16.41	15.51	12.27	14.51	13.77	21.50	20.74	18.03
25	16.67	14.00	12.19	16.77	14.62	15.49	13.56	17.92	14.99	19.36	21.34	17.06
EOM	17.09	13.26	12.34	17.37	14.72	15.84	12.47	13.83	18.31	21.96	22.52	15.50



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391738078085501. Local number, 45Y 6.

LOCATION.--Lat 39°17'37.96", long 78°08'55.00", NAD83, Hydrologic Unit 02070004, 905 ft north of the intersection of White Hall Road and Apple Pie Ridge Road and 450 ft west of Apple Pie Ridge Road. Owner: White Hall United Methodist Church.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 905 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.55 ft above land-surface datum.

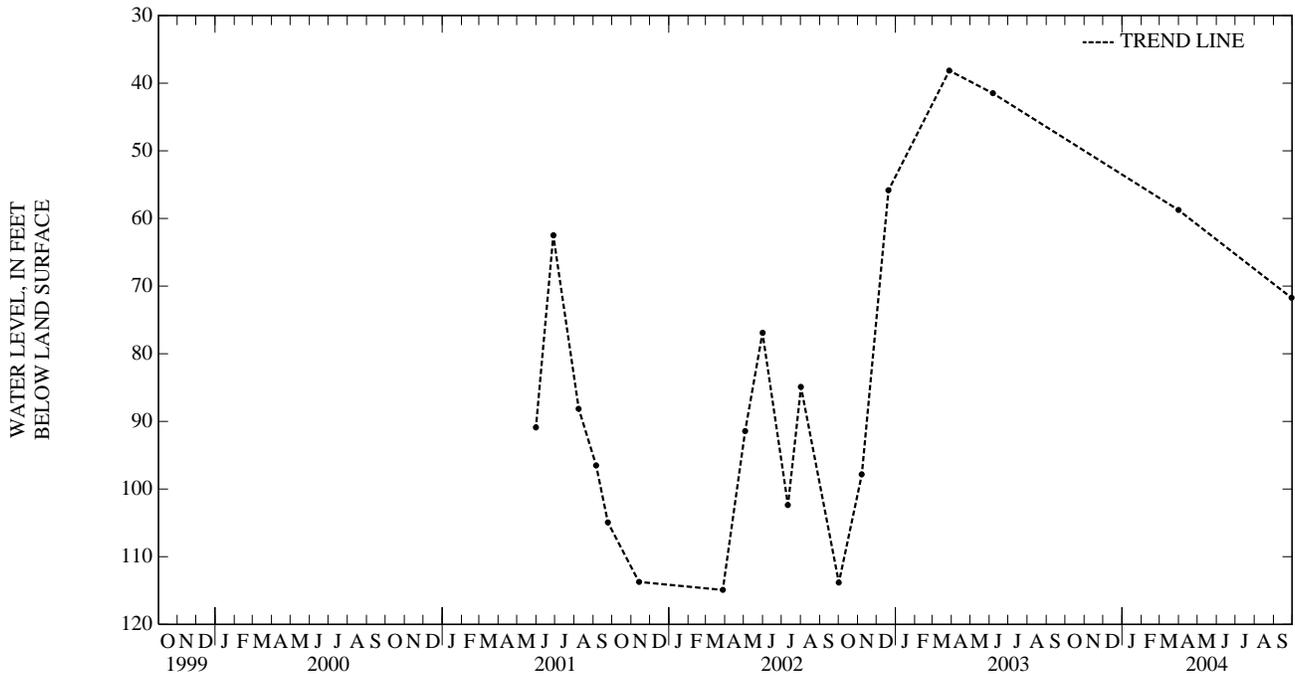
REMARKS.--Water level of Sept. 24, 2001 result of well having been recently pumped.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.14 ft below land-surface datum, Mar. 28, 2003; lowest measured, 114.92 ft below land-surface datum, Mar. 28, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	58.75	SEP 29	71.72
WATER YEAR 2004 HIGHEST 58.75 MAR 31, 2004 LOWEST 71.72 SEP 29, 2004			



FREDERICK COUNTY—Continued

391858078075601. Local number, 45Y 8.

LOCATION.--Lat 39°18'58.11", long 78°07'55.50", NAD83, Hydrologic Unit 02070004, 350 ft southwest of the intersection of Winding Hill Road and Apple Pie Ridge Road and 90 ft northwest of Apple Pie Ridge Road. Owner: Todd Esparza.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth 220 ft, cased to 19 ft, open hole 19 to 220 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

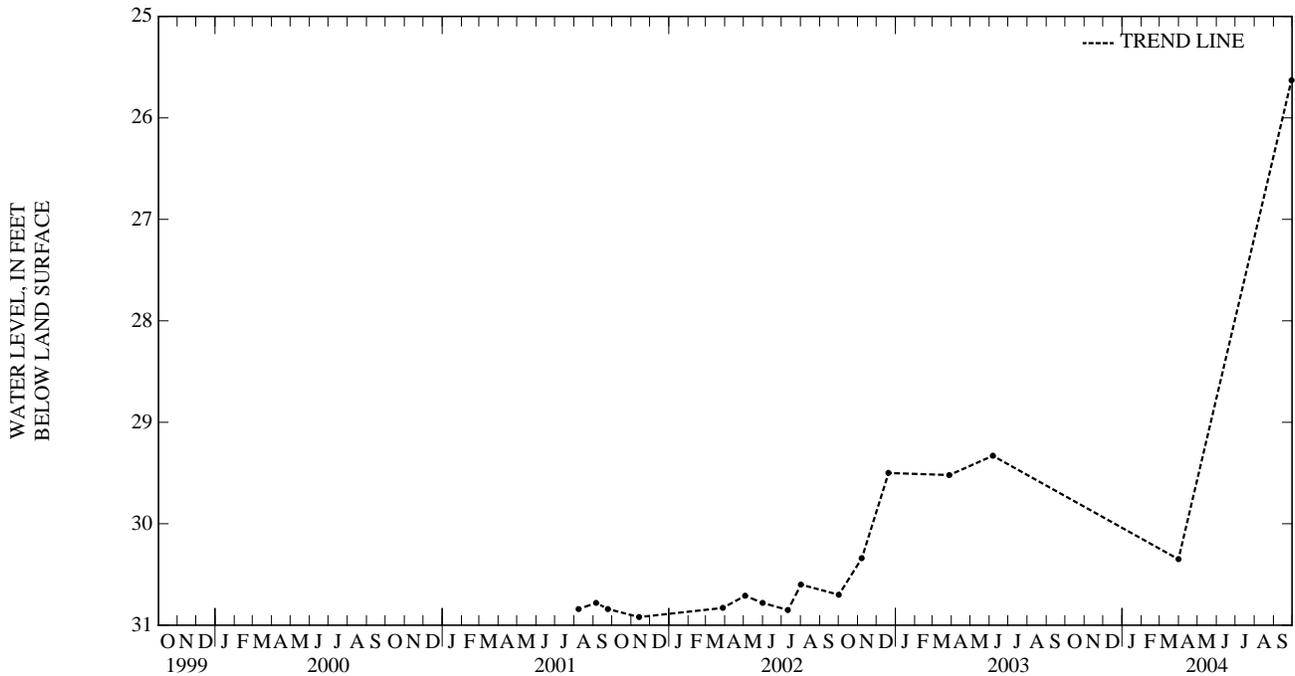
DATUM.--Elevation of land-surface datum is 845 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--August 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.63 ft below land-surface datum, Sept. 29, 2004; lowest measured, 30.92 ft below land-surface datum, Nov. 13, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	30.35	SEP 29	25.63
WATER YEAR 2004 HIGHEST 25.63 SEP 29, 2004		LOWEST 30.92 MAR 31, 2004	



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391413078063901. Local number, 46X108.

LOCATION.--Lat 39°14'13.48", long 78°06'39.46", NAD83, Hydrologic Unit 02070004, 930 ft southwest of the intersection of Stephenson Road and Martinsburg Pike and 180 ft northwest of Martinsburg Pike. Owner: O. L. Payne.

AQUIFER.--Pinesburg Station Dolomite and Rockdale Run Formation of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 120 ft, cased to 20 ft, open hole 20 to 120 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 2002, electronic data logger and pressure transducer, 15-minute record interval.

DATUM.--Elevation of land-surface datum is 625 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

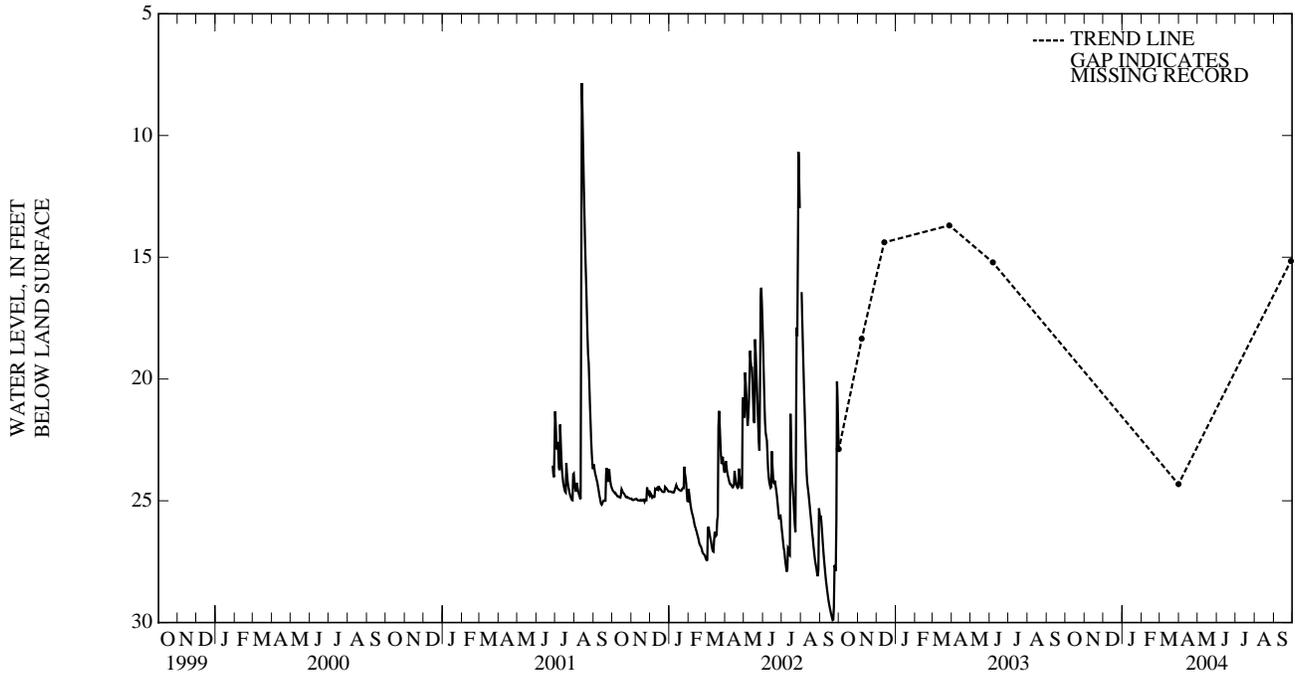
REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.29 ft below land-surface datum, Aug. 13, 2001; lowest recorded, 29.90 ft below land-surface datum, Sept. 21, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	24.32	SEP 28	15.15
WATER YEAR 2004 HIGHEST 15.15 SEP 28, 2004 LOWEST 24.32 MAR 31, 2004			



FREDERICK COUNTY—Continued

391413078071201. Local number, 46X110.

LOCATION.--Lat 39°14'13.36", long 78°07'12.40", NAD83, Hydrologic Unit 02070004, 0.6 mi southwest of the intersection of Stephenson Road and Martinsburg Pike and 0.4 mi northwest of Martinsburg Pike. Owner: O. L. Payne.

AQUIFER.--Pinesburg Station Dolomite and Rockdale Run Formation of Lower to Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 550 ft, cased to 55 ft, open hole 55 to 550 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute interval.

DATUM.--Elevation of land-surface datum is 665 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.75 ft above land-surface datum.

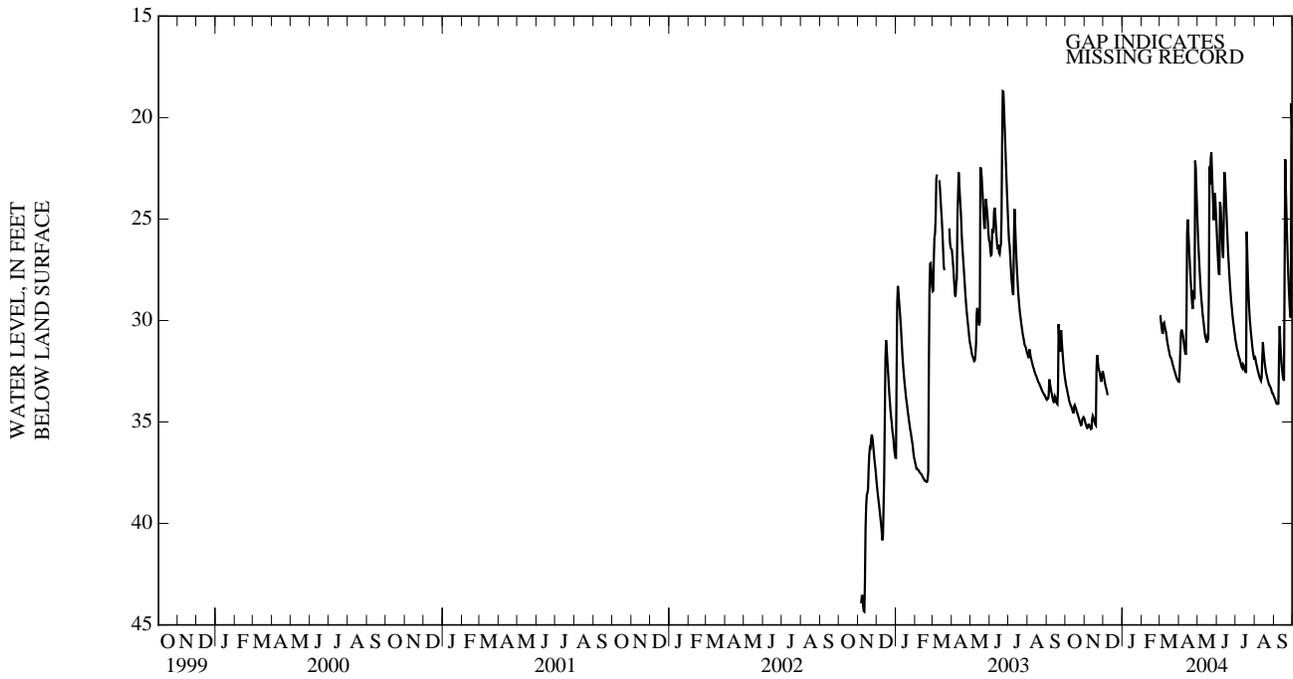
PERIOD OF RECORD.--November 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 17.97 ft below land-surface datum, June 23, 2003; lowest recorded, 44.44 ft below land-surface datum, Nov. 5, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 18.12 ft below land-surface datum, Sept. 29; lowest instantaneous water level, 35.55 ft below land-surface datum, Nov. 11.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.65	35.30	33.27	---	---	30.60	30.45	28.03	27.71	31.58	32.34	34.09
10	34.21	35.26	---	---	---	30.45	31.40	29.97	26.53	32.19	32.90	30.28
15	34.24	34.77	---	---	---	31.40	25.02	31.00	23.66	32.34	31.47	32.70
20	34.55	32.46	---	---	---	31.93	28.18	22.41	27.21	26.95	32.69	23.49
25	35.06	32.55	---	---	---	32.52	28.91	23.50	29.40	30.34	33.20	28.55
EOM	34.79	32.50	---	---	---	33.01	24.53	25.14	30.74	31.92	33.67	20.52



GROUND-WATER LEVELS
 FREDERICK COUNTY—Continued

391716078070901. Local number, 46Y 1.

LOCATION.--Lat 39°17'16.31", long 78°07'09.34", NAD83, Hydrologic Unit 02070004, 210 ft east of the intersection of Welltown Road and Rest Church Road and 60 ft south of Rest Church Road. Owner: Woodbine Assembly of God.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 735 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.25 ft above land-surface datum.

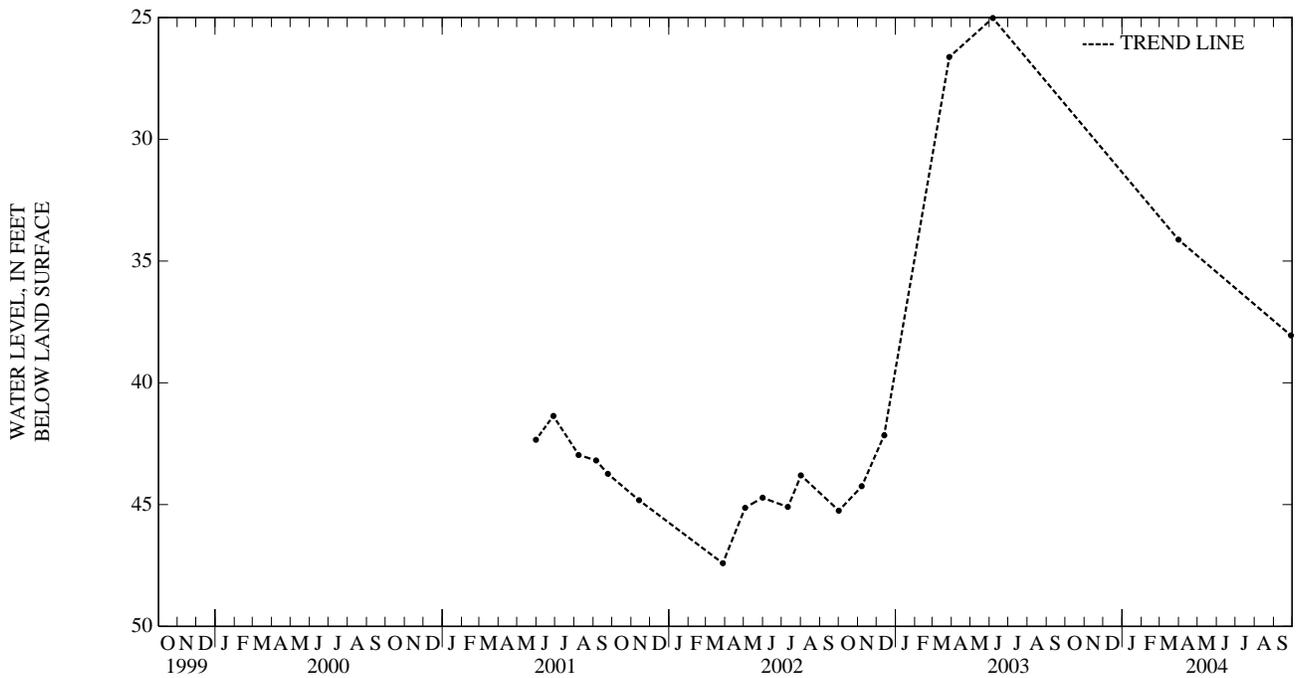
REMARKS.--Water level of Mar. 28, 2002 result of well having been recently pumped.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.02 ft below land-surface datum, June 6, 2003; lowest measured, 45.25 ft below land-surface datum, Oct. 1, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	34.12	SEP 28	38.05
WATER YEAR 2004 HIGHEST 34.12 MAR 31, 2004		LOWEST 38.05 SEP 28, 2004	



GLOUCESTER COUNTY

372621076404201. Local number, 57H 20 SOW 192A.

LOCATION.--Lat 37°26'22", long 76°40'41", NAD83, Hydrologic Unit 02080107, 80 ft north of State Highway 684 (Starvation Road), 1.1 mi northeast of intersection of State Highways 617 and 684. Owner: Smurfit-Stone Container Corporation.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. 200 ft, diameter 2 in. 200 to 910 ft, depth 910 ft, screened 900 to 910 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of inner casing, 1.5 ft above land-surface datum.

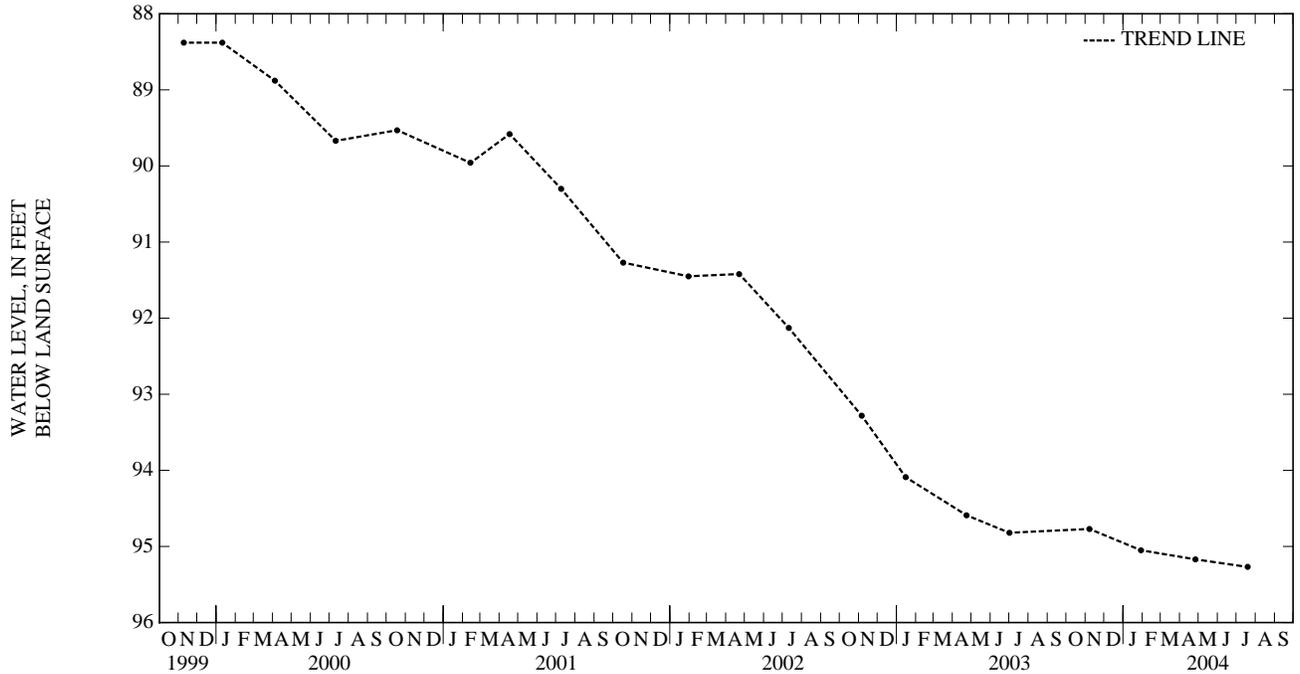
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.59 ft below land-surface datum, June 24, 1994; lowest measured, 95.27 ft below land-surface datum, July 19, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 07	94.77	JAN 29	95.05	APR 26	95.17	JUL 19	95.27
WATER YEAR 2004 HIGHEST 94.77 NOV 07, 2003				LOWEST 95.27 JUL 19, 2004			



GLOUCESTER COUNTY—Continued

372621076404203. Local number, 57H 22 SOW 192C.

LOCATION.--Lat 37°26'22", long 76°40'41", NAD83, Hydrologic Unit 02080107, 80 ft north of State Highway 684 (Starvation Road), 1.1 mi northeast of intersection of State Highways 617 and 684. Owner: Smurfit-Stone Container Corporation.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. 200 ft, diameter 2 in. 200 to 370 ft, depth 370 ft, screened 350 to 370 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 6 ft above NGVD of 1929, from topographic map. Measuring point: Top of inner casing, 1.7 ft above land-surface datum.

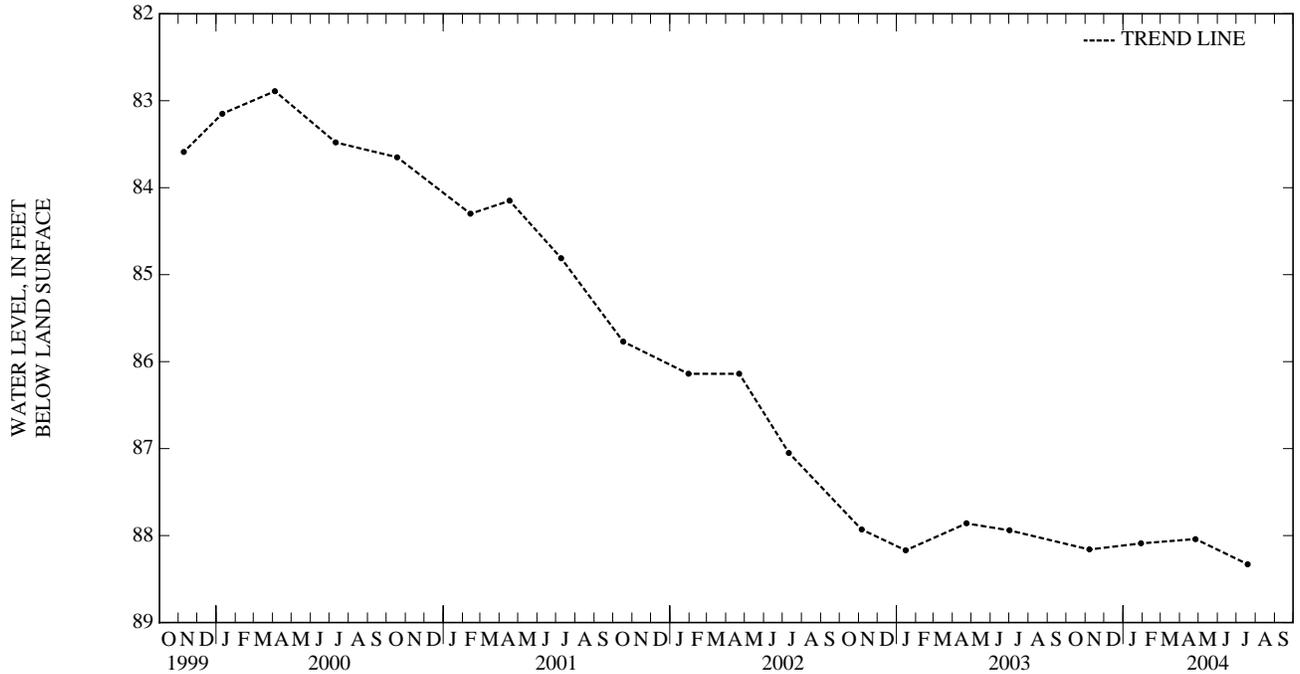
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 75.78 ft below land-surface datum, June 24, 1994; lowest measured, 88.33 ft below land-surface datum, July 19, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 07	88.16	JAN 29	88.09	APR 26	88.04	JUL 19	88.33
WATER YEAR 2004 HIGHEST		88.04	APR 26, 2004		LOWEST		88.33 JUL 19, 2004



GROUND-WATER LEVELS
GLOUCESTER COUNTY—Continued

372331076312602. Local number, 58H 6 SOW 168A.

LOCATION.--Lat 37°23'32", long 76°31'25", NAD83, Hydrologic Unit 02080102, at entrance to Gloucester County landfill, 0.3 mi east of U.S. Highway 17, and 1.4 mi south of Gloucester. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,300 ft, screened 1,290 to 1,300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. June 11, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Prior to June 11, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 75 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

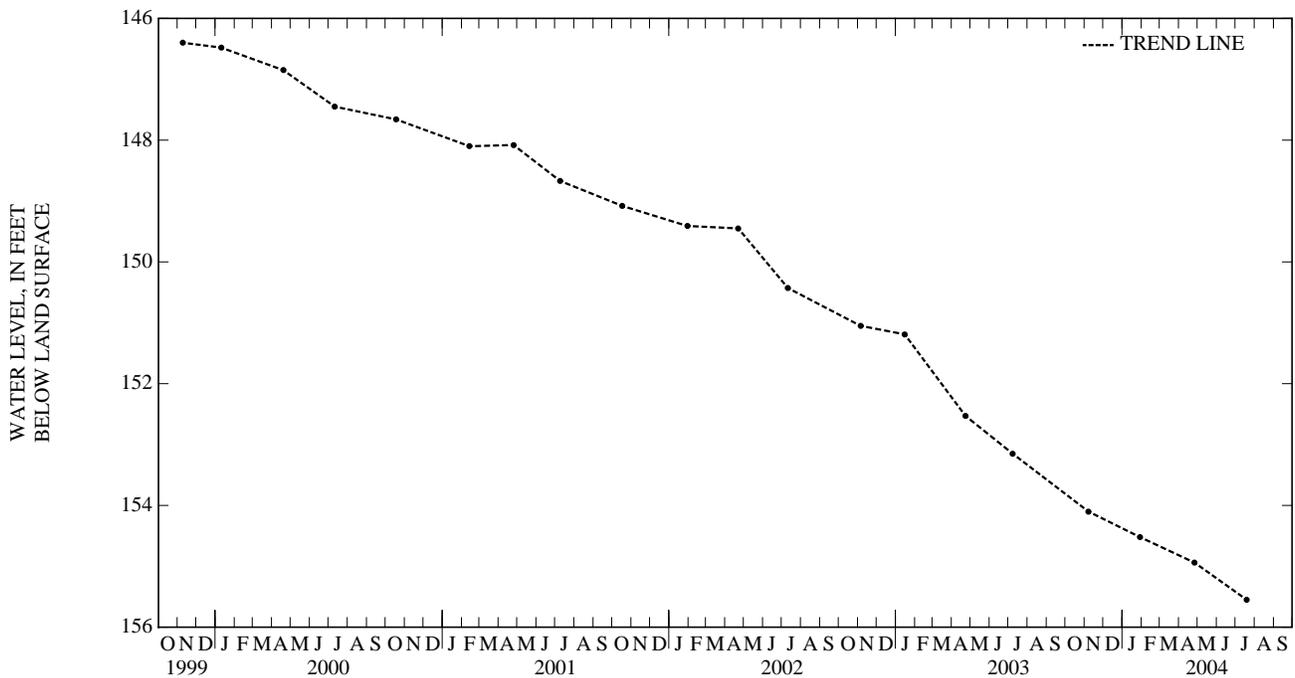
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--August 1982 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.26 ft below land-surface datum, Feb. 14, 1983; lowest measured, 155.55 ft below land-surface datum, July 19, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 07	154.10	JAN 29	154.52	APR 26	154.94	JUL 19	155.55
WATER YEAR 2004 HIGHEST 154.10		NOV 07, 2003		LOWEST 155.55		JUL 19, 2004	



GLOUCESTER COUNTY—Continued

372331076312603. Local number, 58H 7 SOW 168B.

LOCATION.--Lat 37°23'32", long 76°31'25", NAD83, Hydrologic Unit 02080102, at entrance to Gloucester County landfill, 0.3 mi east of U.S. Highway 17, and 1.4 mi south of Gloucester. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 186 ft, diameter 2 in. from 186 to 960 ft, depth 960 ft, screened 950 to 960 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 7, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 75 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

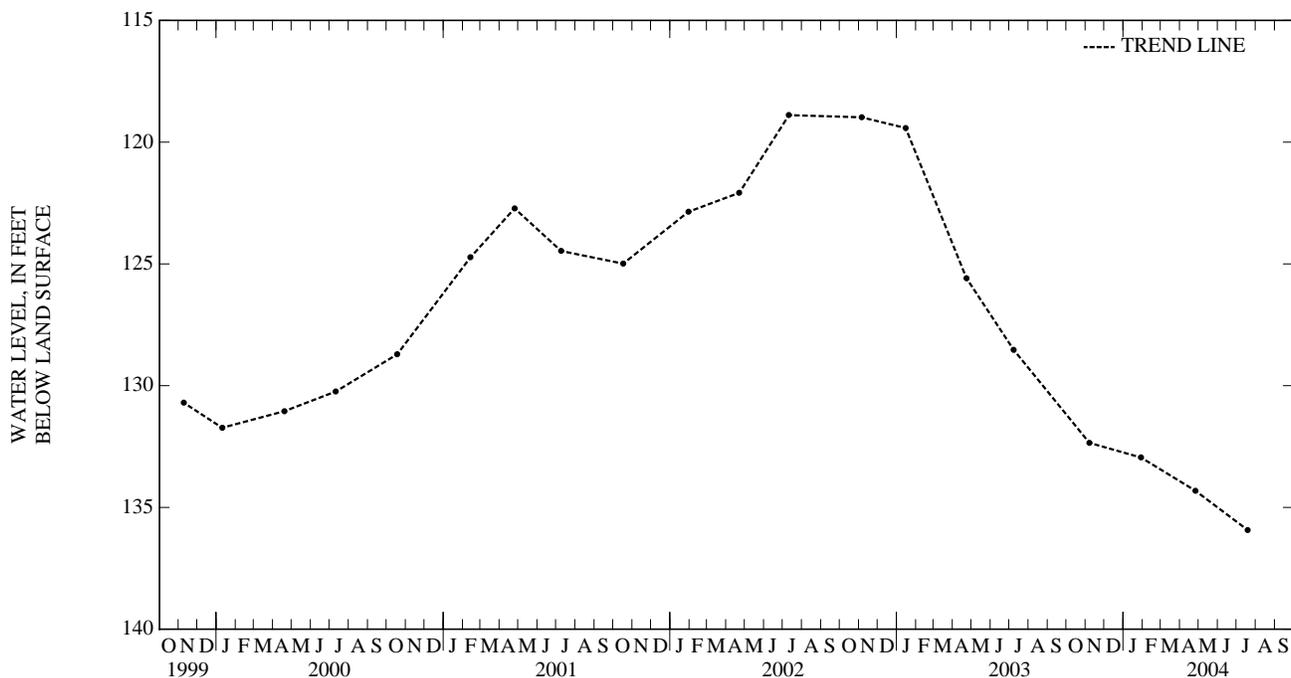
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Low water level in June 1996 is the result of the well being pumped for water-quality sampling.

PERIOD OF RECORD.--June 1985 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.55 ft below land-surface datum, Nov. 20, 1985; lowest measured, 158.32 ft below land-surface datum, July 8, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 07	132.35	JAN 29	132.95	APR 26	134.32	JUL 19	135.93
WATER YEAR 2004 HIGHEST 132.35		NOV 07, 2003		LOWEST 135.93		JUL 19, 2004	



GROUND-WATER LEVELS
GLOUCESTER COUNTY—Continued

372331076312604. Local number, 58H 8 SOW 168C.

LOCATION.--Lat 37°23'32", long 76°31'25", NAD83, Hydrologic Unit 02080102, at entrance to Gloucester County landfill, 0.3 mi east of U.S. Highway 17, and 1.4 mi south of Gloucester. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 40 ft, screened 30 to 40 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 7, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 75 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

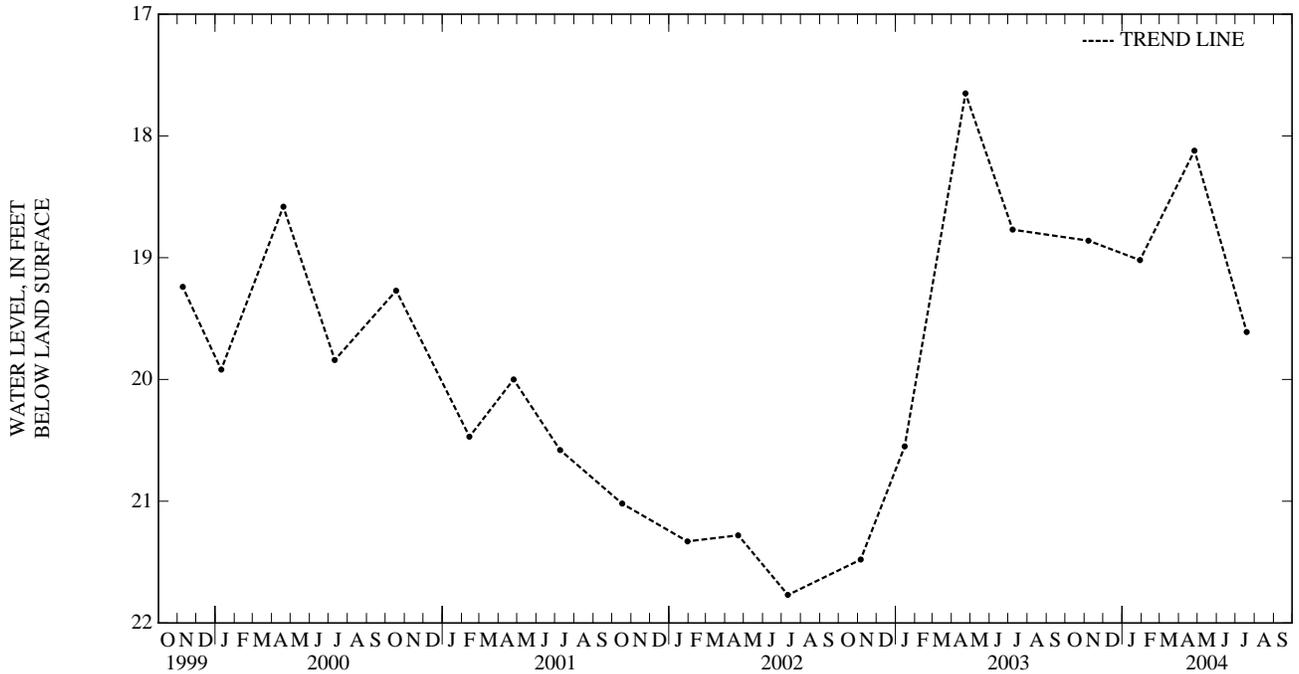
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1985 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.00 ft below land-surface datum, Apr. 20, 1993; lowest measured, 21.81 ft below land-surface datum, Sept. 23, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 07	18.86	JAN 29	19.02	APR 26	18.12	JUL 19	19.61
WATER YEAR 2004 HIGHEST		18.12	APR 26, 2004 LOWEST		19.61	JUL 19, 2004	



HANOVER COUNTY

375316077274701. Local number, 51M 11.

LOCATION.--Lat 37°53'17", long 77°27'46", NAD83, Hydrologic Unit 02080106, 900 ft east of U.S. Highway 1 on a private dirt road at the North Anna River and 9.9 mi north of Ashland on U.S. Highway 1. Owner: Weyerhaeuser Inc.

AQUIFER.--Newark Supergroup of late Triassic age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 175 ft, cased to 20 ft, open hole 20 to 175 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 70 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum.

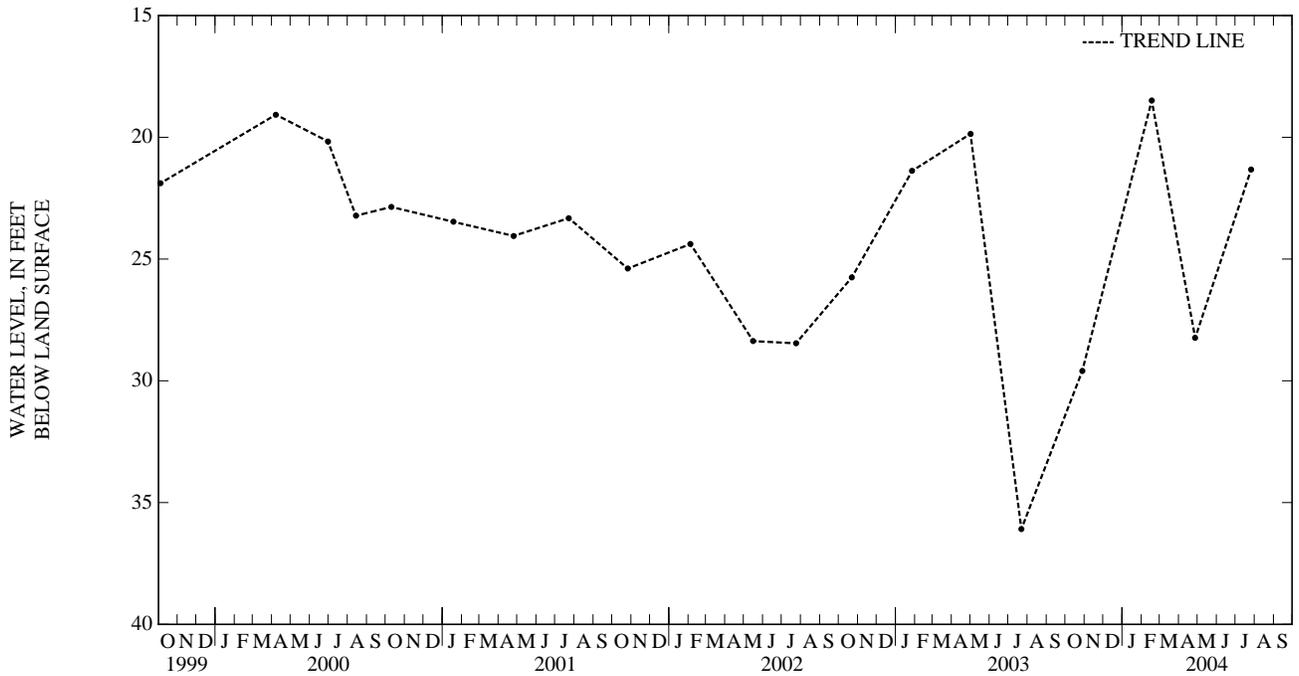
REMARKS.--Water level of July 22, 2003 result of well being pumped.

PERIOD OF RECORD.--January 1984 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.17 ft below land-surface datum, Mar. 30, 1993; lowest measured, 29.60 ft below land-surface datum, Oct. 28, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	29.60	FEB 17	18.49	APR 27	28.24	JUL 26	21.33
WATER YEAR 2004 HIGHEST		18.49	FEB 17, 2004 LOWEST		29.60	OCT 28, 2003	



GROUND-WATER LEVELS
HANOVER COUNTY—Continued

373506077171401. Local number, 52J 56.

LOCATION.--Lat 37°35'07", long 77°17'13", NAD83, Hydrologic Unit 02080206, 150 ft north of State Highway 156 at the Cold Harbor Visitor Center, 1.0 mi southwest of the intersection of State Highways 156 and 619, and 4.9 mi east of Mechanicsville. Owner: U.S. National Park Service.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 265 ft, screened 210 to 220 and 250 to 260 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 172 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.55 ft above land-surface datum.

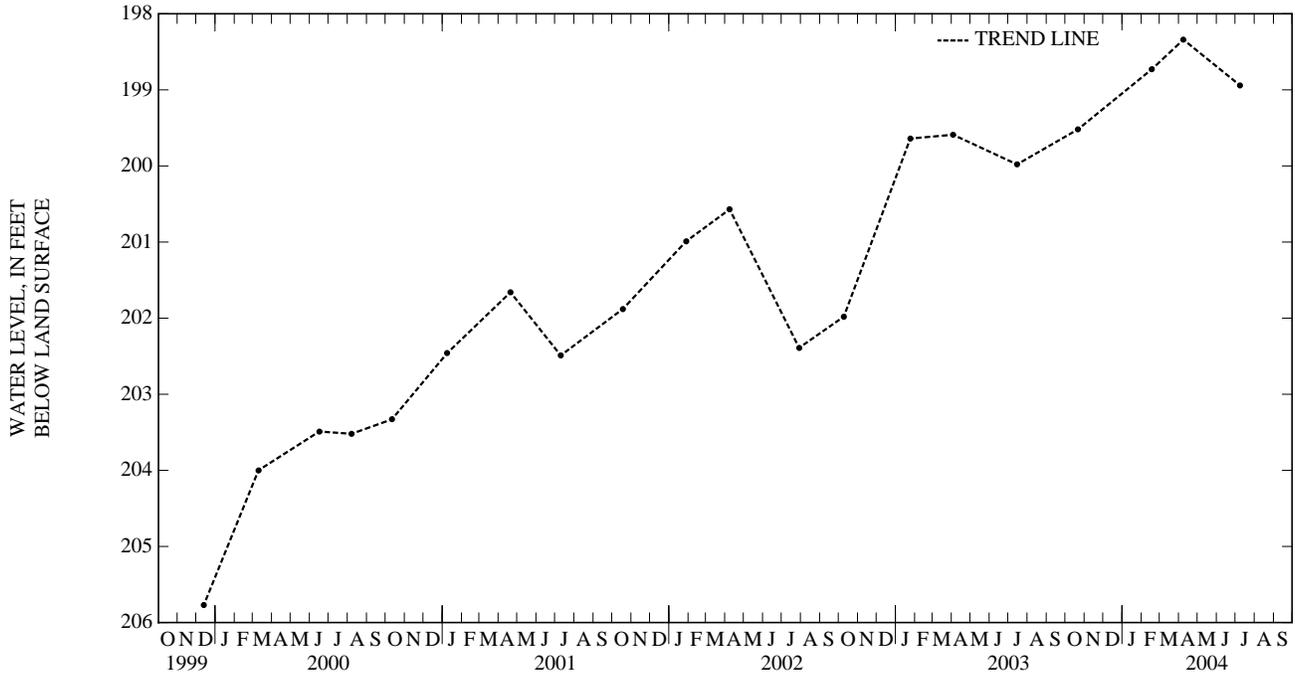
REMARKS.--Well was published as 373507077171201, local number 52J 10, from 1988 to 1999. Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 177.20 ft below land-surface datum, Dec. 13, 1995; lowest measured, 209.44 ft below land-surface datum, Sept. 9, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	199.52	FEB 17	198.73	APR 08	198.34	JUL 08	198.94
WATER YEAR 2004 HIGHEST		198.34 APR 08, 2004		LOWEST		199.52 OCT 21, 2003	



HANOVER COUNTY—Continued

373737077083201. Local number, 53K 19 SOW 080.

LOCATION.--Lat 37°37'38", long 77°08'31", NAD83, Hydrologic Unit 02080106, 500 ft northeast of State Highway 606, 0.15 mi west of intersection of State Highways 606 and 629, and 4.6 mi east of Old Church. Owner: John and Virginia Maples.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 30 in., depth 35 ft, cased to 35 ft.

INSTRUMENTATION.--Electronic data logger, 15-minute record interval. July 11, 1995 to July 28, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 3, 1985 to July 11, 1995, bimonthly measurement with chalked tape. May 20, 1978, to Oct. 2, 1985, occasional measurement with chalked tape. Prior to May 20, 1978, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 130 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--January 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.77 ft below land-surface datum, Aug. 31, 2004; lowest measured, 22.85 ft below land-surface datum, Aug. 3, 1984.

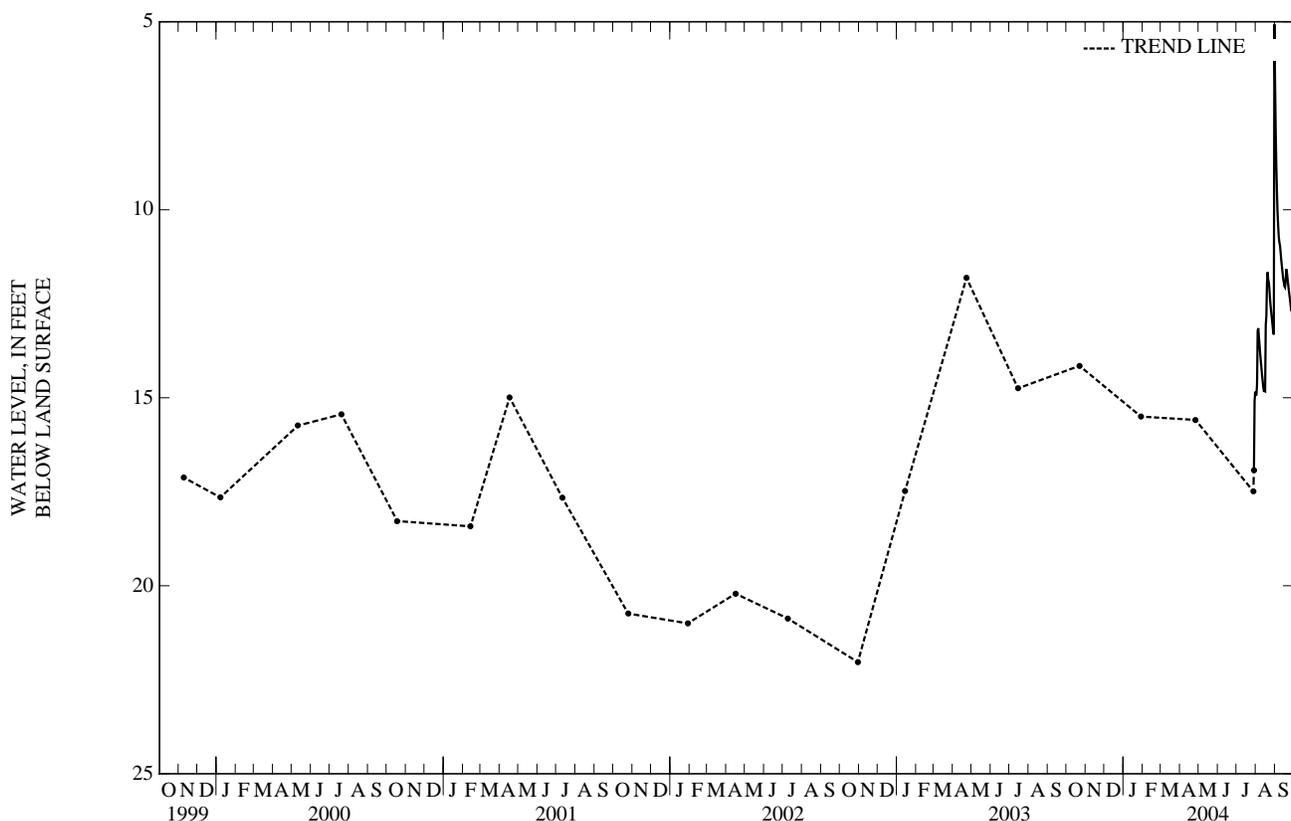
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 3.77 ft below land-surface datum, Aug. 31; lowest recorded instantaneous water level, 17.50 ft below land-surface datum, July 28.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	13.15	10.06
10	---	---	---	---	---	---	---	---	---	---	14.20	11.14
15	---	---	---	---	---	---	---	---	---	---	14.82	11.92
20	---	---	---	---	---	---	---	---	---	---	11.66	11.65
25	---	---	---	---	---	---	---	---	---	---	12.59	12.38
EOM	---	---	---	---	---	---	---	---	---	14.84	5.07	12.94

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	14.15	JAN 29	15.50	APR 26	15.59	JUL 28	17.49
WATER YEAR 2004 HIGHEST 14.15		OCT 22, 2003		LOWEST 17.49		JUL 28, 2004	



GROUND-WATER LEVELS

HENRICO COUNTY

373607077331401. Local number, 50J 1 SOW 023.

LOCATION.--Lat 37°36'08", long 77°33'13", NAD83, Hydrologic Unit 02080205, 200 ft north of Three Chopt Road, 1.0 mi southeast of intersection of Three Chopt Road and Parham Road in Richmond. Owner: E. L. Gilman.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in., depth 300 ft, cased to 68 ft, open hole 68 to 300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 22, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 17, 1995, bimonthly measurement with chalked tape. June 5, 1974, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to June 5, 1974, continuous strip-chart recorder.

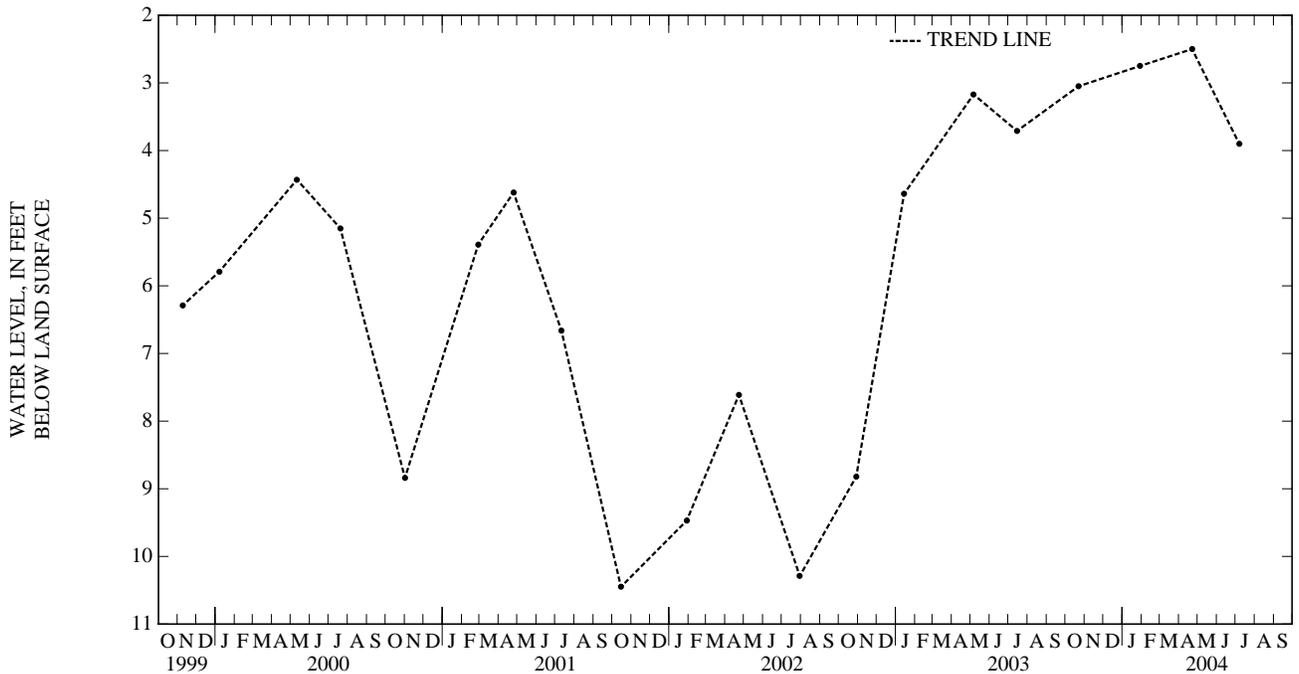
DATUM.--Elevation of land-surface datum is 275 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.88 ft above land-surface datum.

PERIOD OF RECORD.--May 1969 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.48 ft below land-surface datum, June 5, 1970; lowest recorded, 10.45 ft below land-surface datum, Oct. 15, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	3.05	JAN 29	2.75	APR 22	2.50	JUL 07	3.90
WATER YEAR 2004 HIGHEST		2.50	APR 22, 2004 LOWEST		3.90	JUL 07, 2004	



HENRICO COUNTY—Continued

373428077233001. Local number, 51J 13.

LOCATION.--Lat 37°34'29", long 77°23'29", NAD83, Hydrologic Unit 02080206, 1,600 ft east of the intersection of U.S. Highway 360 (Mechanicsville Turnpike) and Laburnum Avenue and 500 ft south of Laburnum Avenue at water tower. Owner: Henrico County.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in. to 167 ft, diameter 6 in. from 167 to 275 ft, depth 275 ft, screened 167 to 186 ft, 213 to 226 ft, 248 to 258 ft.

INSTRUMENTATION.--Weekly measurements by Henrico County personnel. Prior to Apr. 2, 1992, USGS digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 168 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum prior to Apr. 8, 1992; 0.2 ft thereafter.

REMARKS.--Water level affected by local pumpage and regional drawdown.

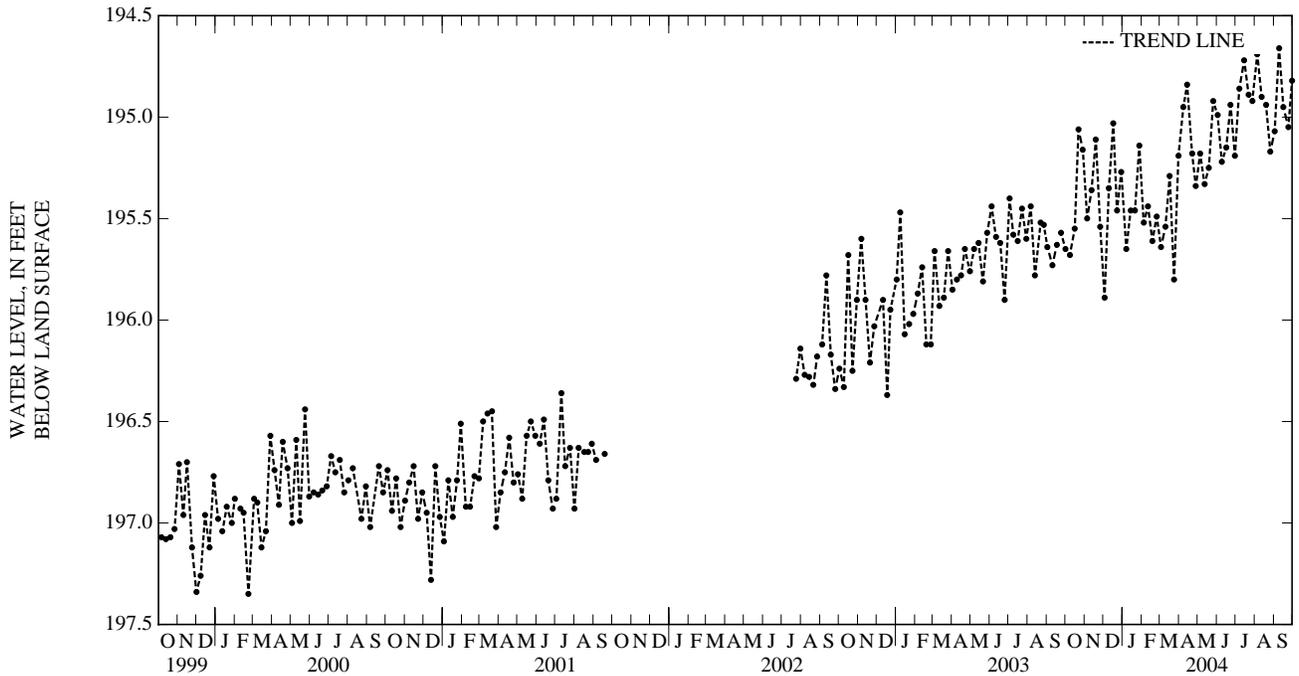
PERIOD OF RECORD.--January 1988 to September 2001, October 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 190.85 ft below land-surface datum, Apr. 7, 1988; lowest measured, 197.63 ft below land-surface datum, Dec. 23, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL										
OCT 01	195.65	DEC 03	195.89	FEB 04	195.52	APR 08	194.95	JUN 09	195.22	AUG 12	194.90
08	195.68	10	195.35	11	195.44	14	194.84	16	195.15	19	194.94
16	195.55	17	195.03	18	195.61	22	195.18	23	194.94	26	195.17
22	195.06	23	195.46	25	195.49	28	195.34	30	195.19	SEP 02	195.07
29	195.16	30	195.27	MAR 03	195.64	MAY 05	195.18	JUL 07	194.86	09	194.66
NOV 05	195.50	JAN 07	195.65	10	195.54	12	195.33	15	194.72	16	194.95
12	195.36	14	195.46	17	195.29	19	195.25	22	194.89	24	195.05
19	195.11	21	195.46	24	195.80	26	194.92	28	194.92	30	194.82
26	195.54	28	195.14	31	195.19	JUN 02	194.99	AUG 05	194.69		

WATER YEAR 2004 HIGHEST 194.66 SEP 09, 2004 LOWEST 195.89 DEC 03, 2003



GROUND-WATER LEVELS
HENRICO COUNTY—Continued

373817077282501. Local number, 51K 14 SOW 137.

LOCATION.--Lat 37°38'18", long 77°28'24", NAD83, Hydrologic Unit 02080206, 50 ft east of entrance to J. Sargeant Reynolds Community College, 0.9 mi west of intersection of Parham Road and U.S. Highway 1, and 0.9 mi west of Yellow Tavern. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Petersburg Granite of Mississippian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 280 ft, cased to 35 ft, open hole 35 to 280 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 8, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 17, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 180 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Sept. 9, 1980; 1.5 ft thereafter.

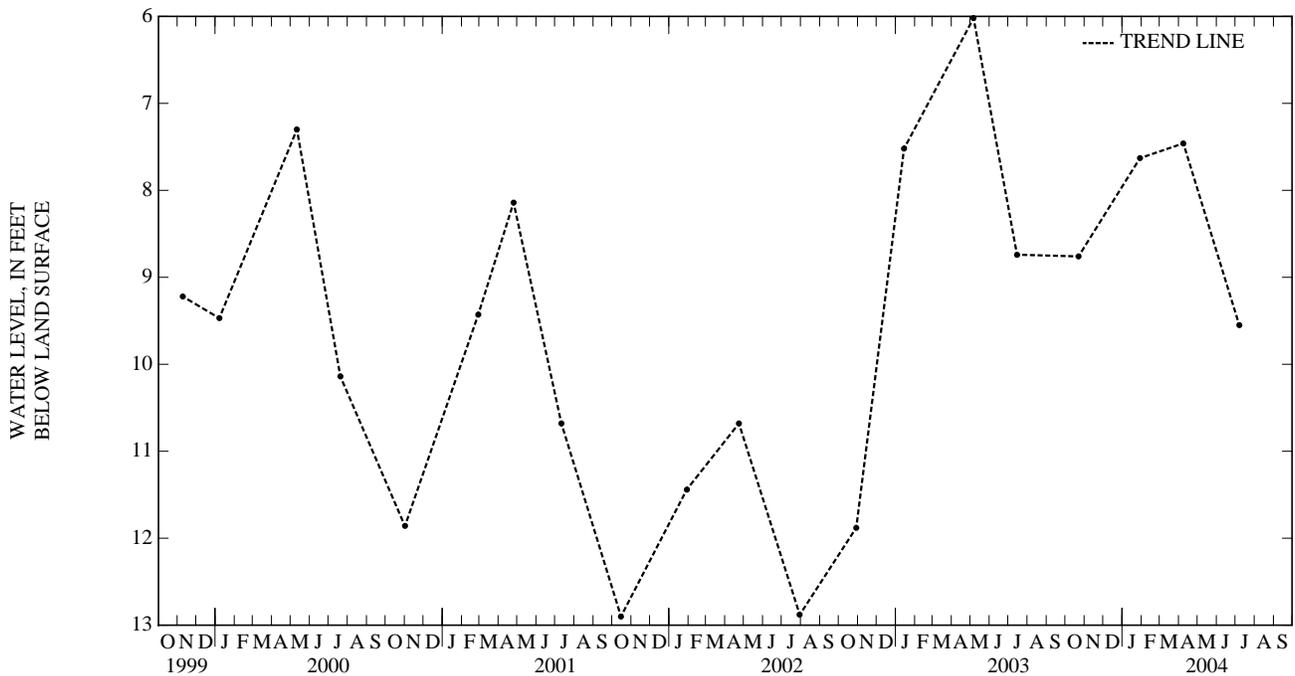
REMARKS.--Well was published as 373817077282501, local number 51K 4, from 1980 to 2000.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.37 ft below land-surface datum, Apr. 30, 1987; lowest measured, 12.91 ft below land-surface datum, Oct. 27, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	8.76	JAN 29	7.63	APR 08	7.46	JUL 07	9.55
WATER YEAR 2004 HIGHEST		7.46	APR 08, 2004 LOWEST		9.55	JUL 07, 2004	



HENRICO COUNTY—Continued

372936077211101. Local number, 52H 3 SOW 136.

LOCATION.--Lat 37°29'37", long 77°21'10", NAD83, Hydrologic Unit 02080206, 100 ft west of Laburnum Avenue, 0.9 mi north of intersection of Laburnum Avenue and Darbytown Road, and 2.4 mi southwest of Sandston. Owner: Nabisco Incorporated.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 209 ft, screened 149 to 159 ft, 199 to 209 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 25, 1985, to July 17, 1995, bimonthly measurement with chalked tape. Prior to Mar. 25, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 150 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

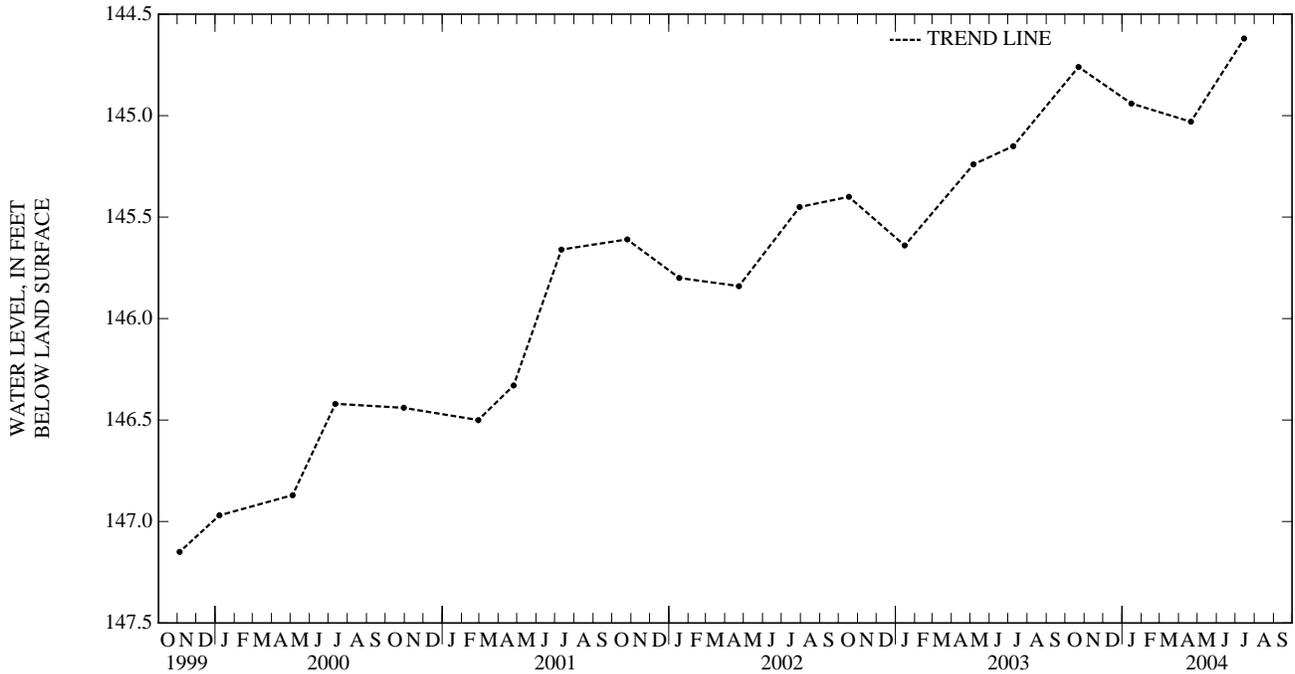
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1974 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 131.42 ft below land-surface datum, Dec. 2, 1974; lowest measured, 147.53 ft below land-surface datum, Apr. 29, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	144.76	JAN 15	144.94	APR 20	145.03	JUL 15	144.62
WATER YEAR 2004 HIGHEST 144.62		JUL 15, 2004		LOWEST 145.03		APR 20, 2004	



GROUND-WATER LEVELS
HENRICO COUNTY—Continued

372538077221501. Local number, 52H 16.

LOCATION.--Lat 37°25'39", long 77°22'14", NAD83, Hydrologic Unit 02080206, at Richmond National Battlefields Park - Fort Harrison Unit, 800 ft east of visitors center. Owner: U.S. Geological Survey.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 34.25 ft, screened 24.25 ft to 34.25 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Unpublished digital recorder data Nov. 13, 1995, to May 8, 1996.

DATUM.--Elevation of land-surface datum is 135 ft above NGVD of 1929. Measuring point: Top of casing, 1.43 ft above land-surface datum.

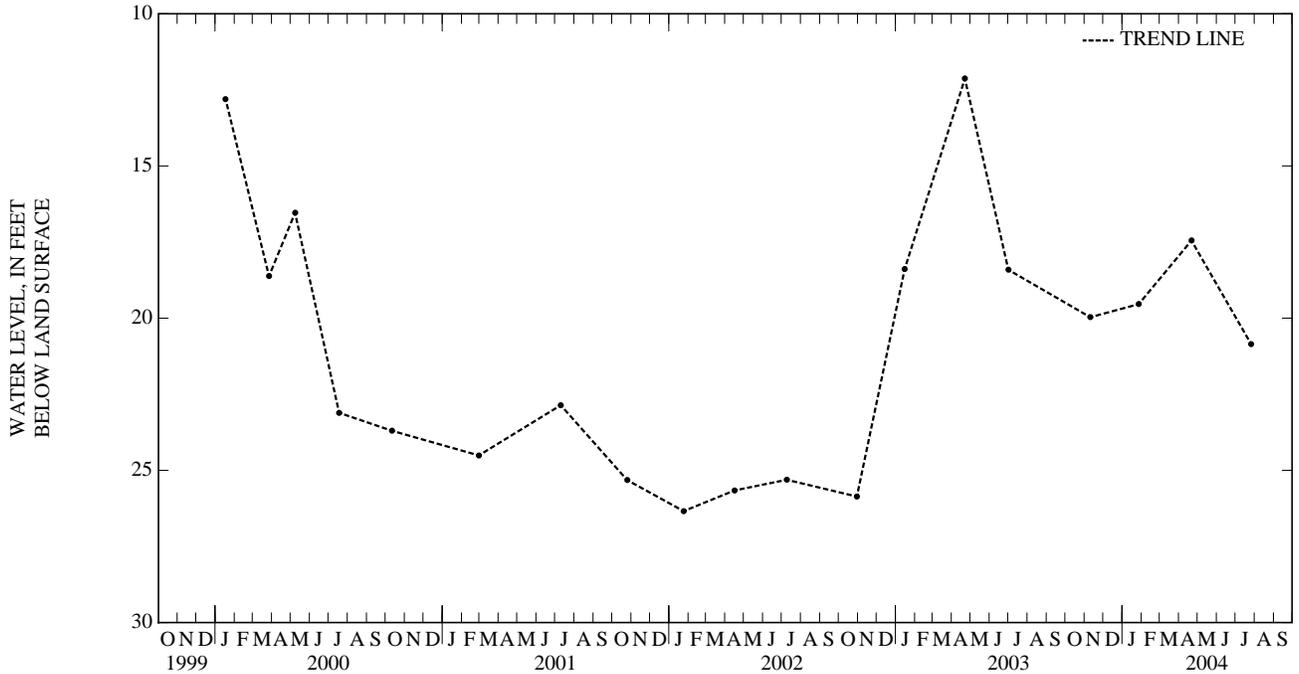
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--November 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.13 ft below land-surface datum, Apr. 22, 2003; lowest measured, 26.34 ft below land-surface datum, Jan. 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	19.97	JAN 27	19.54	APR 21	17.45	JUL 26	20.85
WATER YEAR 2004 HIGHEST		17.45	APR 21, 2004		LOWEST		20.85
						JUL 26, 2004	



GROUND-WATER LEVELS
HENRICO COUNTY—Continued

372538077221502. Local number, 52H 17.

LOCATION.--Lat 37°25'39", long 77°22'14", NAD83, Hydrologic Unit 02080206, at Richmond National Battlefields Park - Fort Harrison Unit, 800 ft east of visitors center. Owner: U.S. Geological Survey.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 78.90 ft, screened 73.90 ft to 78.90 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Unpublished digital recorder data Apr. 3, 1996, to May 8, 1996.

DATUM.--Elevation of land-surface datum is 135 ft above NGVD of 1929. Measuring point: Top of casing, 1.50 ft above land-surface datum.

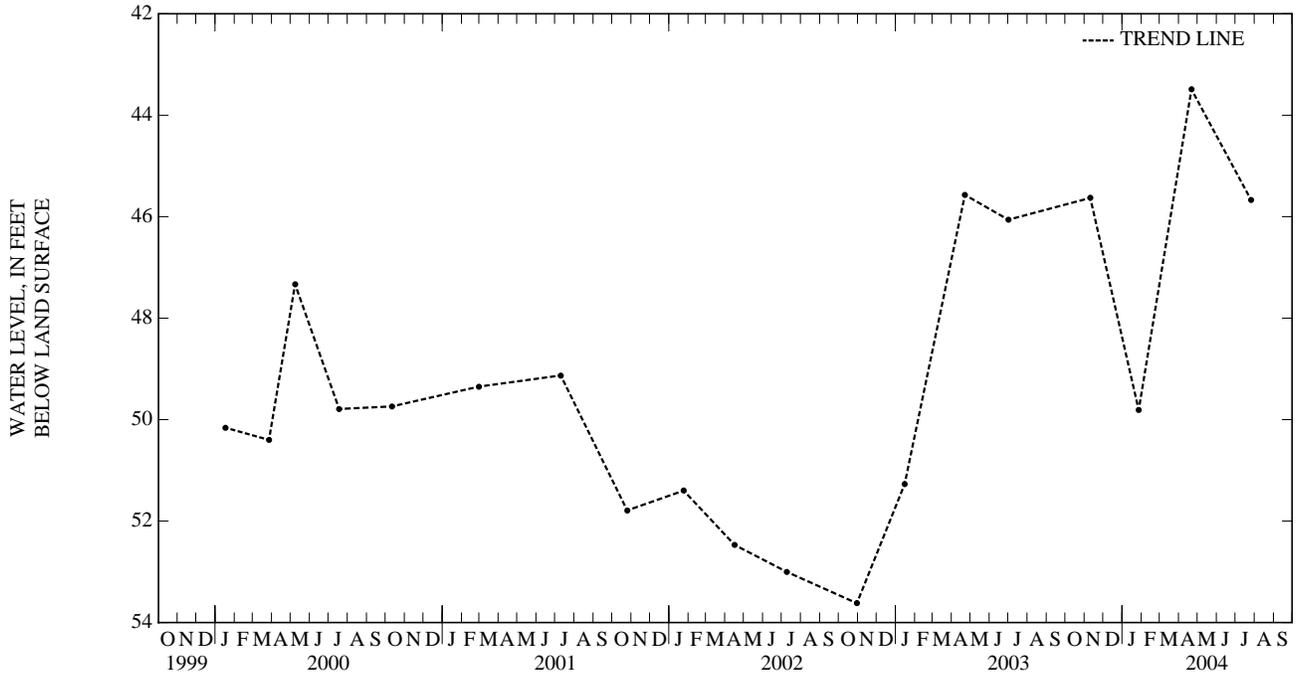
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--November 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.49 ft below land-surface datum, Apr. 21, 2004; lowest measured, 54.44 ft below land-surface datum, Oct. 21 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	45.63	JAN 27	49.81	APR 21	43.49	JUL 26	45.67
WATER YEAR 2004 HIGHEST		43.49 APR 21, 2004		LOWEST		49.81 JAN 27, 2004	



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY

364059076544901. Local number, 55B 16.

LOCATION.--Lat 36°41'00", long 76°54'48", NAD83, Hydrologic Unit 03010202, off U.S. Highways 258 and 58, 200 ft west of the intersection of U.S. Highways 258 and 58 and Lynn Road, and 0.3 mi east of Franklin. Owner: International Paper Company, formerly Union Camp Corporation.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 305 ft, screened 285 to 305 ft.

INSTRUMENTATION.--Electronic data logger, 60-minute record interval. May 27, 1988 to Nov. 3, 1999, digital recorder, 60-minute punch. Prior to May 27, 1988, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 25 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.45 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Water level affected by local pumpage and regional drawdown.

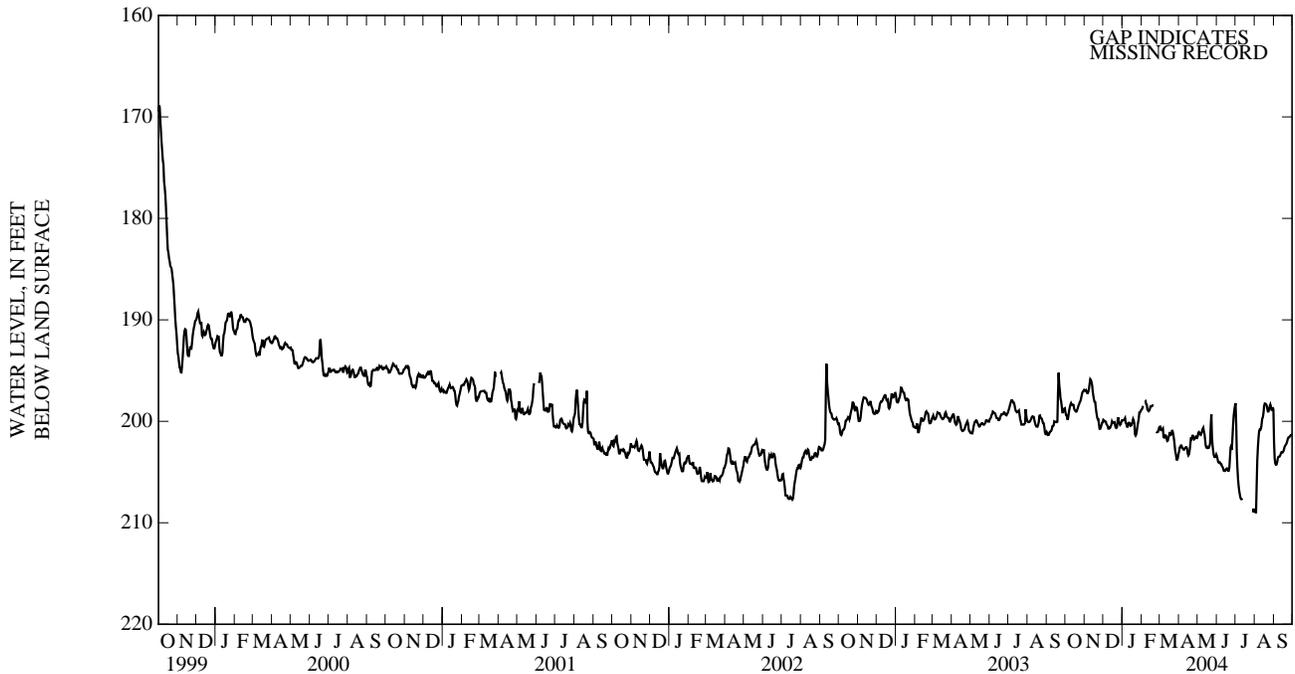
PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 99.00 ft below land-surface datum, Dec. 27, 1960; lowest recorded, 216.72 ft below land-surface datum, May 23, 1992.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 195.64 ft below land-surface datum, Nov. 11; lowest instantaneous water level, not determined, probably greater than 209.31 ft below land-surface datum, occurred during July 13-28.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	199.77	197.22	200.04	199.68	---	200.81	202.39	201.30	204.03	205.71	203.81	204.26
10	198.21	195.85	200.73	200.41	198.84	201.38	202.68	200.63	204.50	207.67	200.84	203.47
15	198.77	197.52	200.00	200.41	198.52	201.57	203.18	202.59	204.80	---	199.16	203.06
20	198.85	199.20	200.42	200.24	---	201.22	201.72	202.43	204.88	---	198.42	202.30
25	198.02	200.74	199.62	200.48	201.08	202.44	201.79	202.43	202.82	---	198.51	201.59
EOM	196.91	200.11	199.90	198.88	200.59	203.26	201.65	203.28	198.51	208.78	198.88	201.35



ISLE OF WIGHT COUNTY—Continued

364125076544801. Local number, 55B 36.

LOCATION.--Lat 36°41'26", long 76°54'47", NAD83, Hydrologic Unit 03010202, on Lynn Road, 0.45 mi north of intersection with U.S. Highways 258 and 58, and 0.7 mi northeast of Franklin. Owner: International Paper Company, formerly Union Camp Corporation.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 860 ft, screened 720 to 725 ft, 800 to 805 ft, 855 to 860 ft.

INSTRUMENTATION.--Occasional measurements with chalked tape by USGS personnel. October 1986 to August 1993, continuous strip-chart recorder. September 1983 to October 1986, occasional measurement with chalked tape. October 1982 to September 1983, continuous strip-chart recorder. November 1972 to October 1982, occasional measurement with chalked tape. July 1969 to November 1972, continuous strip-chart recorder. Prior to July 1969, continuous strip-chart recorder and occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 37 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 4.56 ft above land-surface datum.

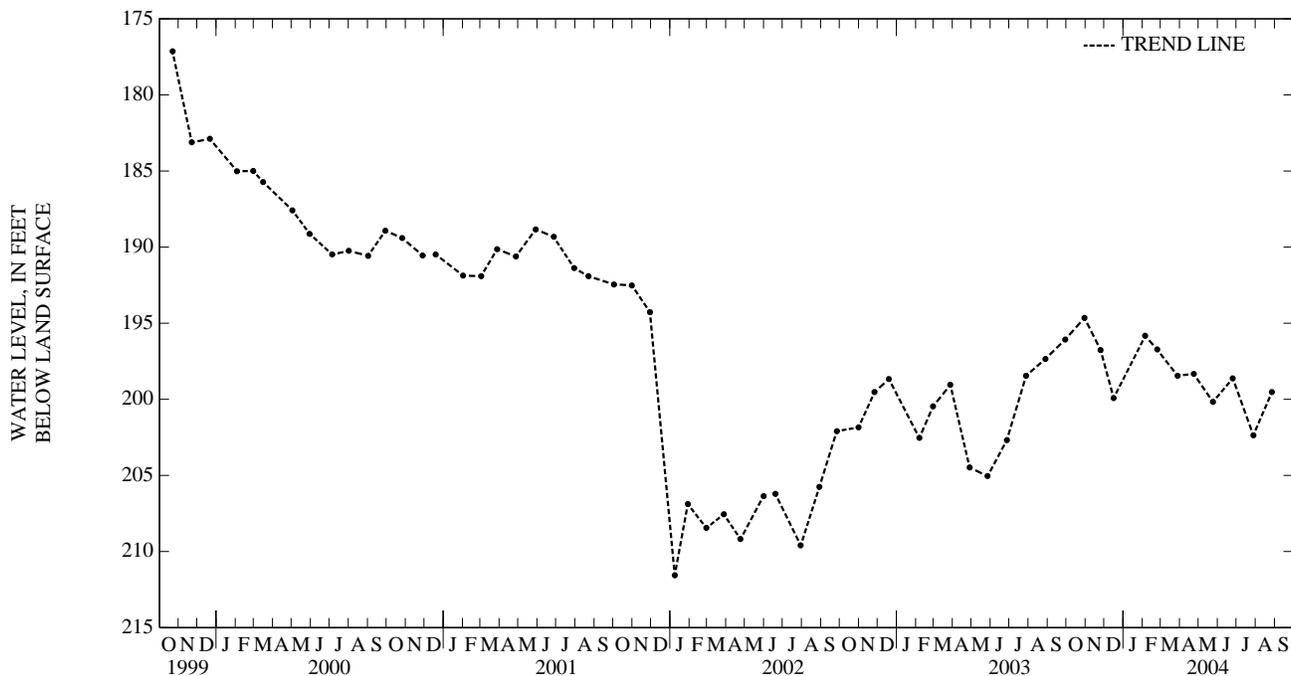
REMARKS.--Water level affected by local pumpage and regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--March 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 156.65 ft below land-surface datum, Dec. 27, 1969; lowest measured, 219.29 ft below land-surface datum, May 18, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	194.65	DEC 16	199.92	FEB 24	196.73	APR 23	198.33	JUN 25	198.62	AUG 27	199.53
NOV 25	196.76	FEB 05	195.83	MAR 28	198.45	MAY 24	200.17	JUL 28	202.36		
WATER YEAR 2004 HIGHEST 194.65 OCT 30, 2003		LOWEST 202.36 JUL 28, 2004									



GROUND-WATER LEVELS
ISLE OF WIGHT COUNTY—Continued

364101076544803. Local number, 55B 62 SOW 096B.

LOCATION.--Lat 36°41'02", long 76°54'47", NAD83, Hydrologic Unit 03010202, 200 ft northwest of intersection of U.S. Highways 58 and 258 and Lynn Road, 0.3 mi east of Franklin. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 30.77 ft, screened 25 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Oct. 1, 1987 to Oct. 8, 1995, digital recorder, 60-minute punch. Prior to Oct. 1, 1987, occasional measurement with chalked tape.

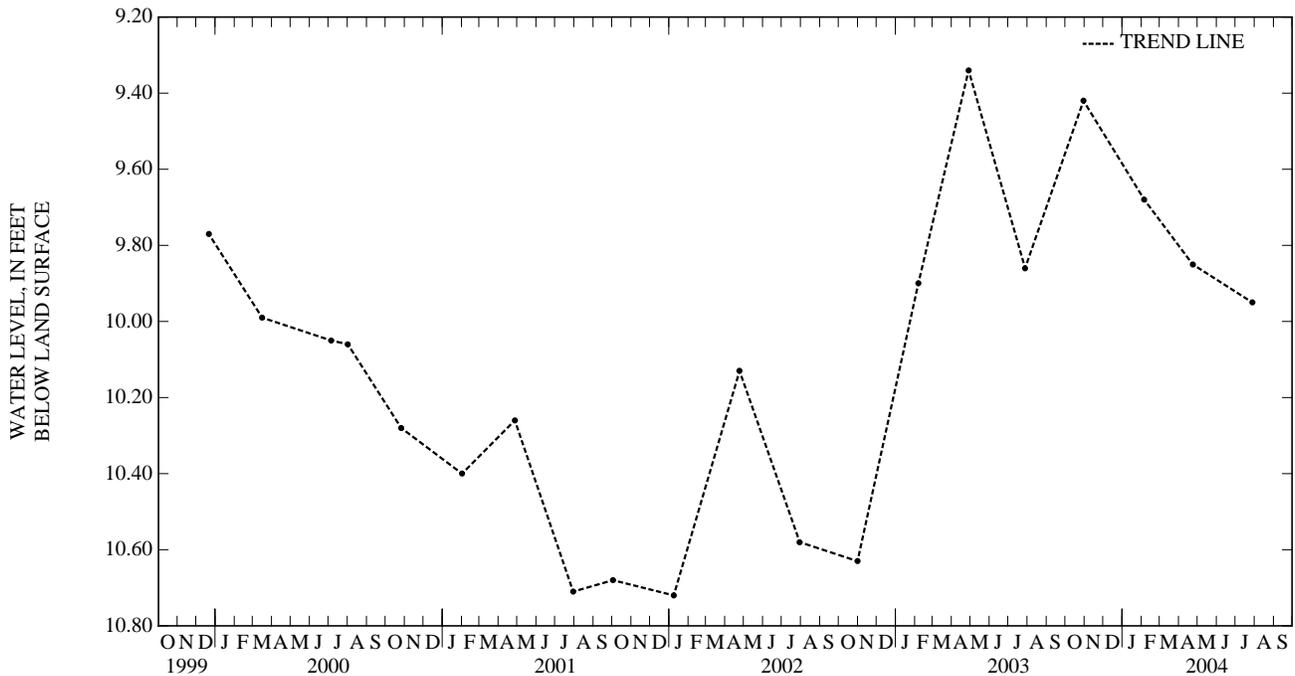
DATUM.--Elevation of land-surface datum is 27 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.15 ft above land-surface datum.

PERIOD OF RECORD.--May 1979, October 1980 to September 1981, October 1982 to September 1983, October 1984 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.98 ft below land-surface datum, Sept. 27, 1999; lowest measured, 15.38 ft below land-surface datum, Oct. 17, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	9.42	FEB 05	9.68	APR 23	9.85	JUL 28	9.95
WATER YEAR 2004 HIGHEST		9.42	OCT 30, 2003		LOWEST		9.95
						JUL 28, 2004	



ISLE OF WIGHT COUNTY—Continued

364814076440701. Local number, 57C 25 SOW 149A.

LOCATION.--Lat 36°48'15", long 76°44'06", NAD83, Hydrologic Unit 02080208, at Windsor Community Center in Windsor. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 26 ft, screened 16 to 26 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1985, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 70 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

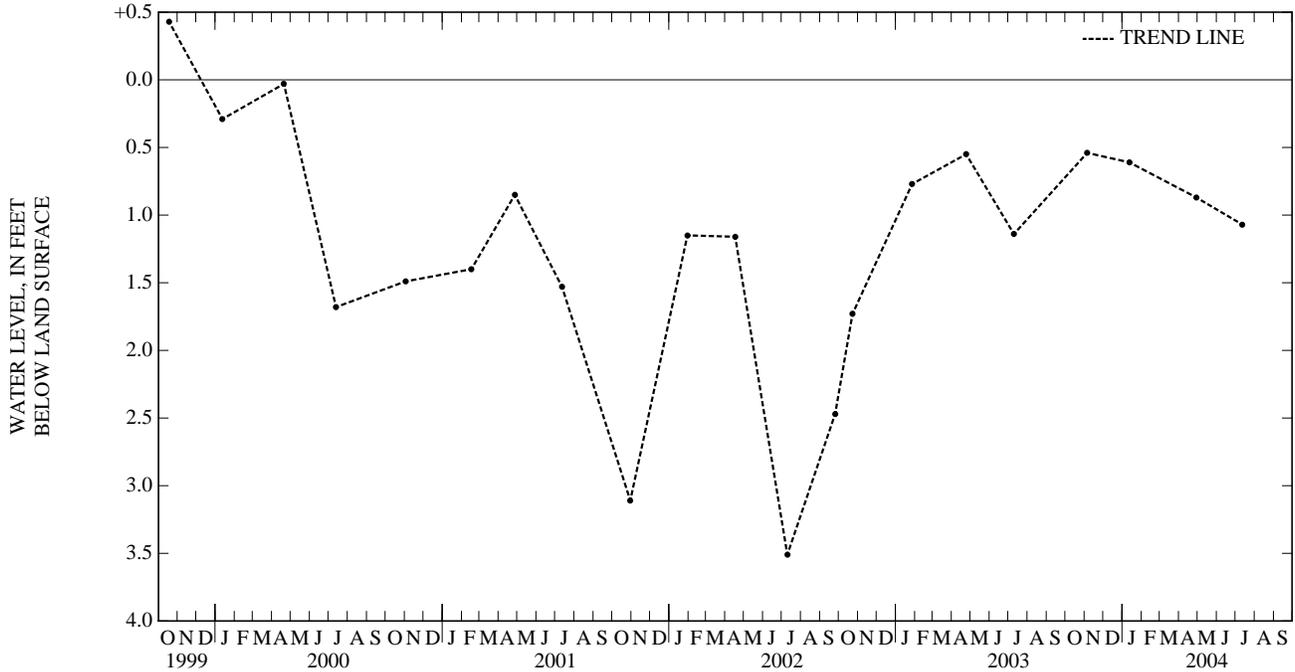
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--March 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.43 ft above land-surface datum, Oct. 18, 1999; lowest measured, 3.51 ft below land-surface datum, July 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	.54	JAN 12	.61	APR 29	.87	JUL 12	1.07
WATER YEAR 2004 HIGHEST .54		NOV 05, 2003		LOWEST 1.07		JUL 12, 2004	



GROUND-WATER LEVELS
ISLE OF WIGHT COUNTY—Continued

364814076440702. Local number, 57C 26 SOW 149B.

LOCATION.--Lat 36°48'15", long 76°44'06", NAD83, Hydrologic Unit 02080208, at Windsor Community Center in Windsor. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 380 ft, screened 370 to 380 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 70 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

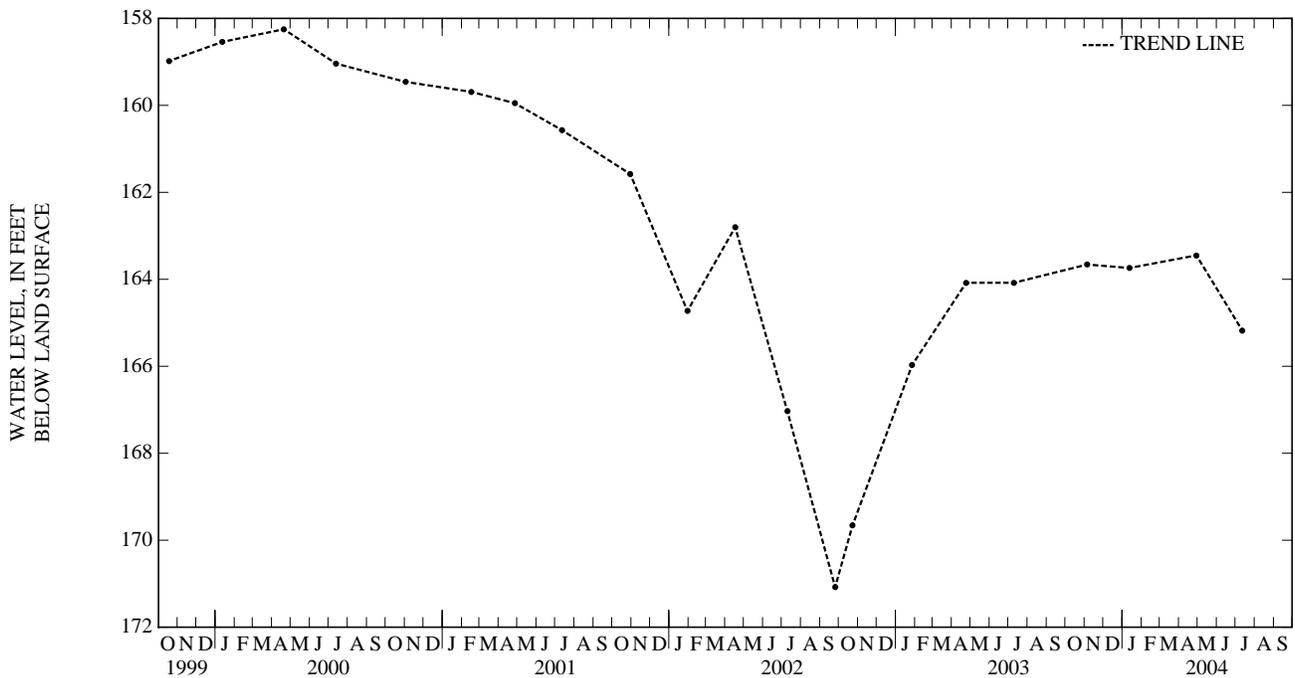
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--March 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 144.42 ft below land-surface datum, Feb. 25, 1986; lowest measured, 171.08 ft below land-surface datum, Sept. 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	163.66	JAN 12	163.74	APR 29	163.45	JUL 12	165.18
WATER YEAR 2004 HIGHEST		163.45 APR 29, 2004		LOWEST		165.18 JUL 12, 2004	



ISLE OF WIGHT COUNTY—Continued

364814076440704. Local number, 57C 28 SOW 149D.

LOCATION.--Lat 36°48'15", long 76°44'06", NAD83, Hydrologic Unit 02080208, at Windsor Community Center in Windsor. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 807 ft, screened 797 to 807 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 70 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

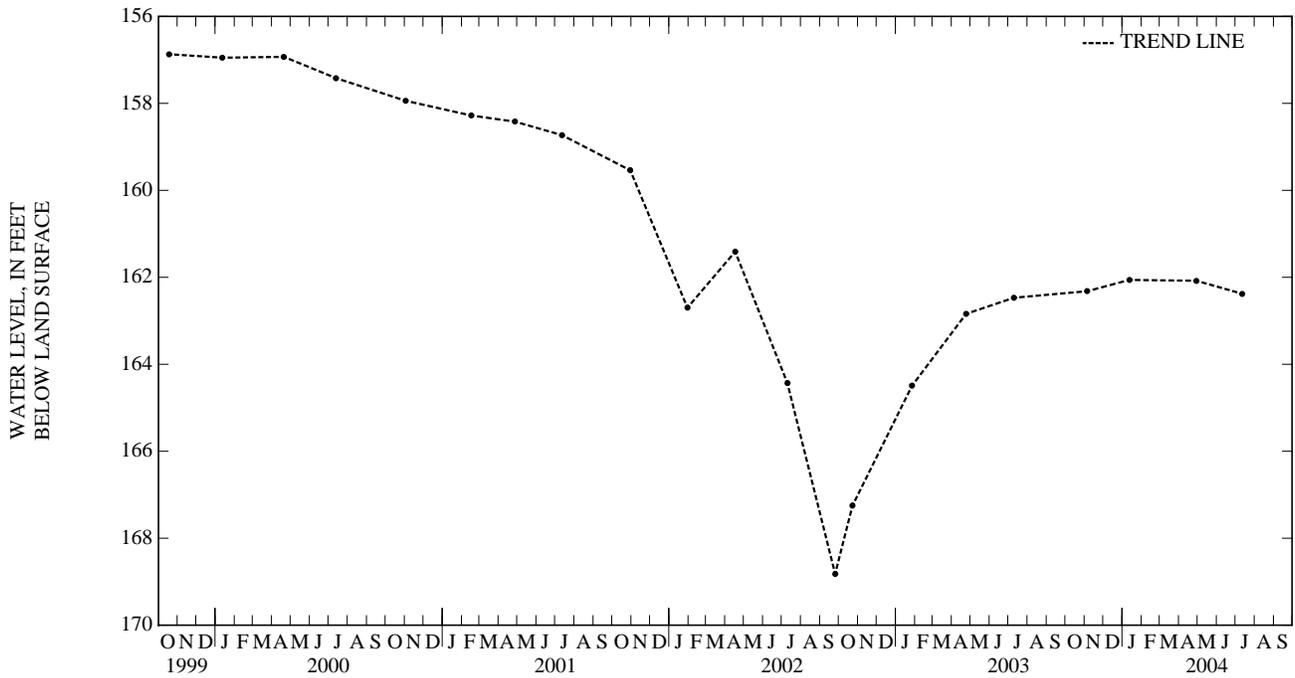
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--March 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142.80 ft below land-surface datum, Feb. 25, 1986; lowest measured, 168.82 ft below land-surface datum, Sept. 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	162.32	JAN 12	162.06	APR 29	162.08	JUL 12	162.38
WATER YEAR 2004 HIGHEST 162.06		JAN 12, 2004		LOWEST 162.38		JUL 12, 2004	



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY—Continued

365751076433501. Local number, 57D 21 SOW 143A.

LOCATION.--Lat 36°57'52", long 76°43'34", NAD83, Hydrologic Unit 03010202, 50 ft west of State Highway 652, 0.5 mi south of State Highway 682, and 1.8 mi southwest of Magnet. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 650 ft, screened 640 to 650 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 73 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

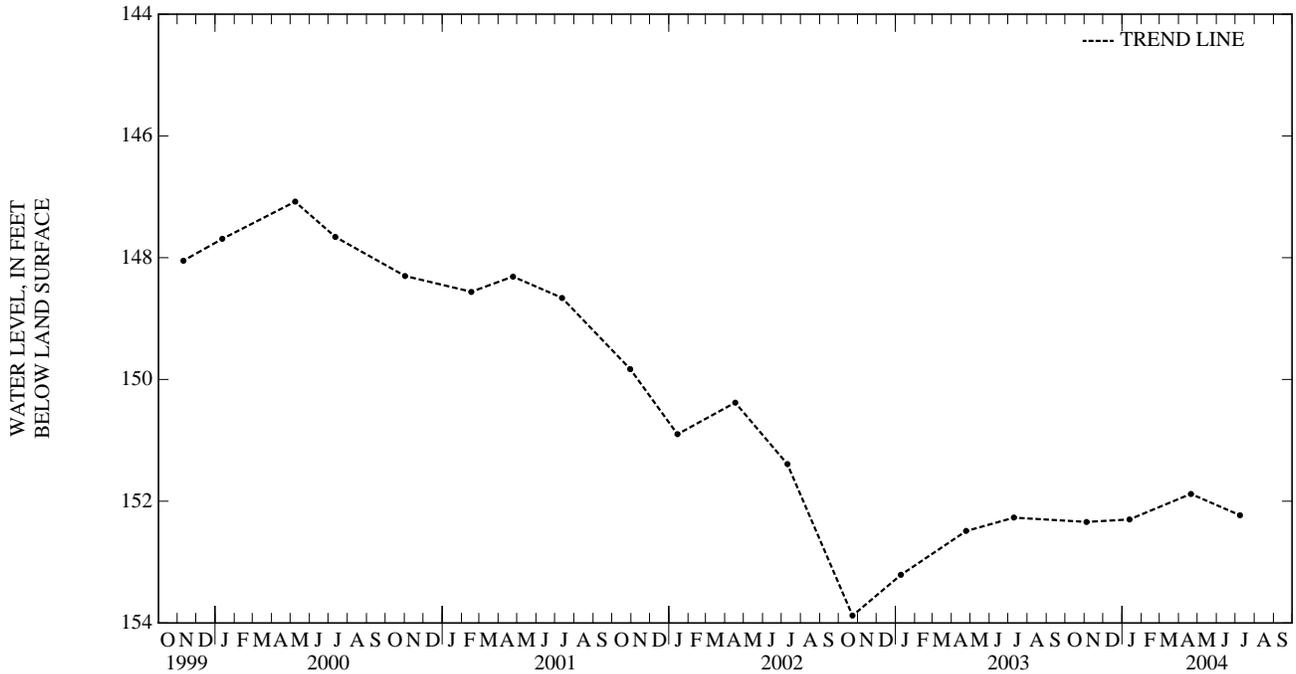
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 122.60 ft below land-surface datum, Aug. 27, 1980; lowest measured, 153.88 ft below land-surface datum, Oct. 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	152.34	JAN 12	152.30	APR 20	151.88	JUL 08	152.23
WATER YEAR 2004 HIGHEST		151.88	APR 20, 2004 LOWEST		152.34	NOV 04, 2003	



ISLE OF WIGHT COUNTY—Continued

365751076433502. Local number, 57D 22 SOW 143B.

LOCATION.--Lat 36°57'52", long 76°43'34", NAD83, Hydrologic Unit 03010202, 50 ft west of State Highway 652, 0.5 mi south of State Highway 682, and 1.8 mi southwest of Magnet. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 350 ft, screened 340 to 350 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 73 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

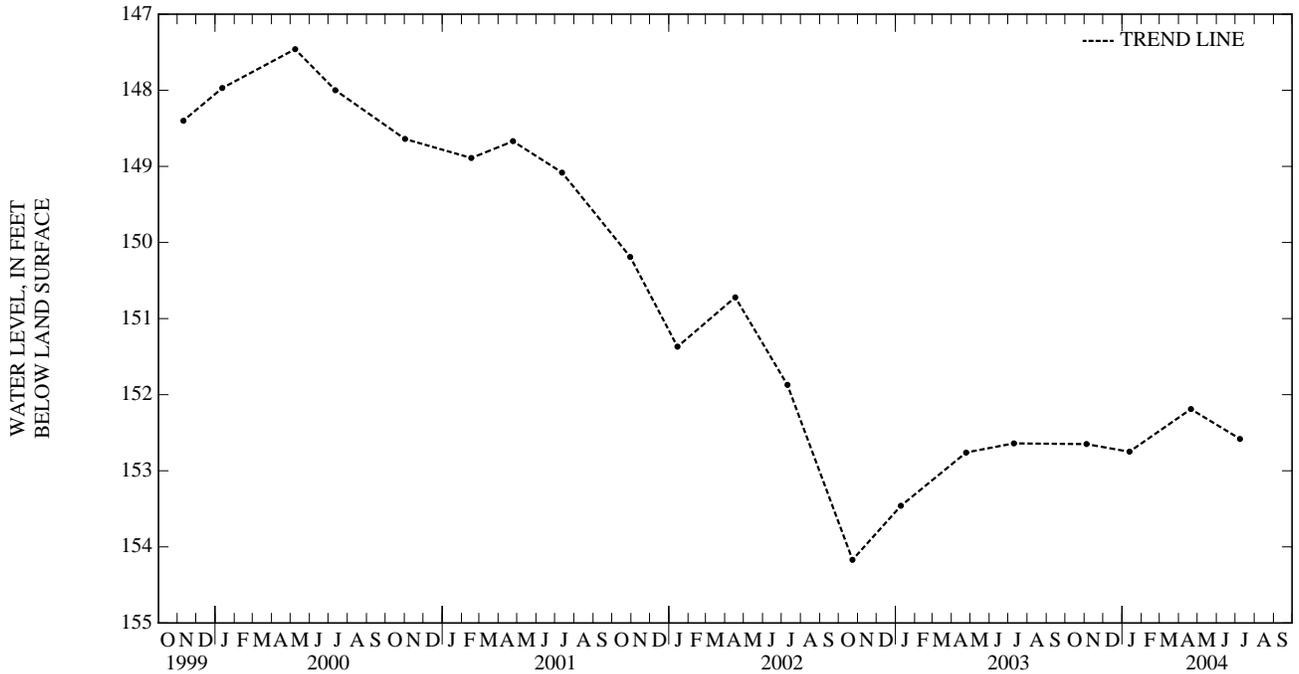
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.10 ft below land-surface datum, Apr. 24 and May 29, 1980; lowest measured, 154.17 ft below land-surface datum, Oct. 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	152.65	JAN 12	152.75	APR 20	152.19	JUL 08	152.58
WATER YEAR 2004 HIGHEST		152.19 APR 20, 2004		LOWEST		152.75 JAN 12, 2004	



GROUND-WATER LEVELS
ISLE OF WIGHT COUNTY—Continued

365751076433503. Local number, 57D 23 SOW 143C.

LOCATION.--Lat 36°57'52", long 76°43'34", NAD83, Hydrologic Unit 03010202, 50 ft west of State Highway 652, 0.5 mi south of State Highway 682, and 1.8 mi southwest of Magnet. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 18 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 73 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

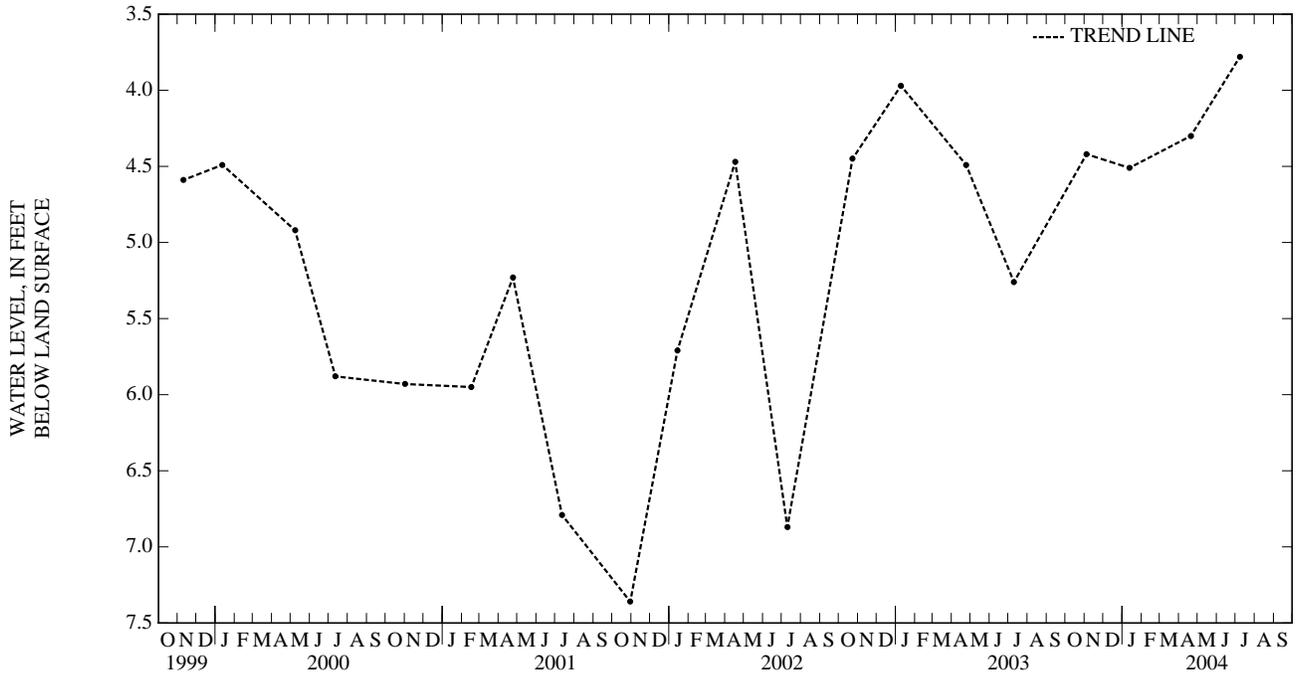
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.29 ft below land-surface datum, Feb. 23, 1987; lowest measured, 8.70 ft below land-surface datum, Aug. 11, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	4.42	JAN 12	4.51	APR 20	4.30	JUL 08	3.78
WATER YEAR 2004 HIGHEST		3.78	JUL 08, 2004 LOWEST		4.51	JAN 12, 2004	



ISLE OF WIGHT COUNTY—Continued

370236076425901. Local number, 57E 10 SOW 144B.

LOCATION.--Lat 37°02'54", long 76°43'11", NAD83, Hydrologic Unit 02080206, 0.5 mi east of State Highway 627, 1.0 mi north of State Highway 621, and 2.5 mi southwest of Rushmere. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 440 ft, screened 430 to 440 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 85 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

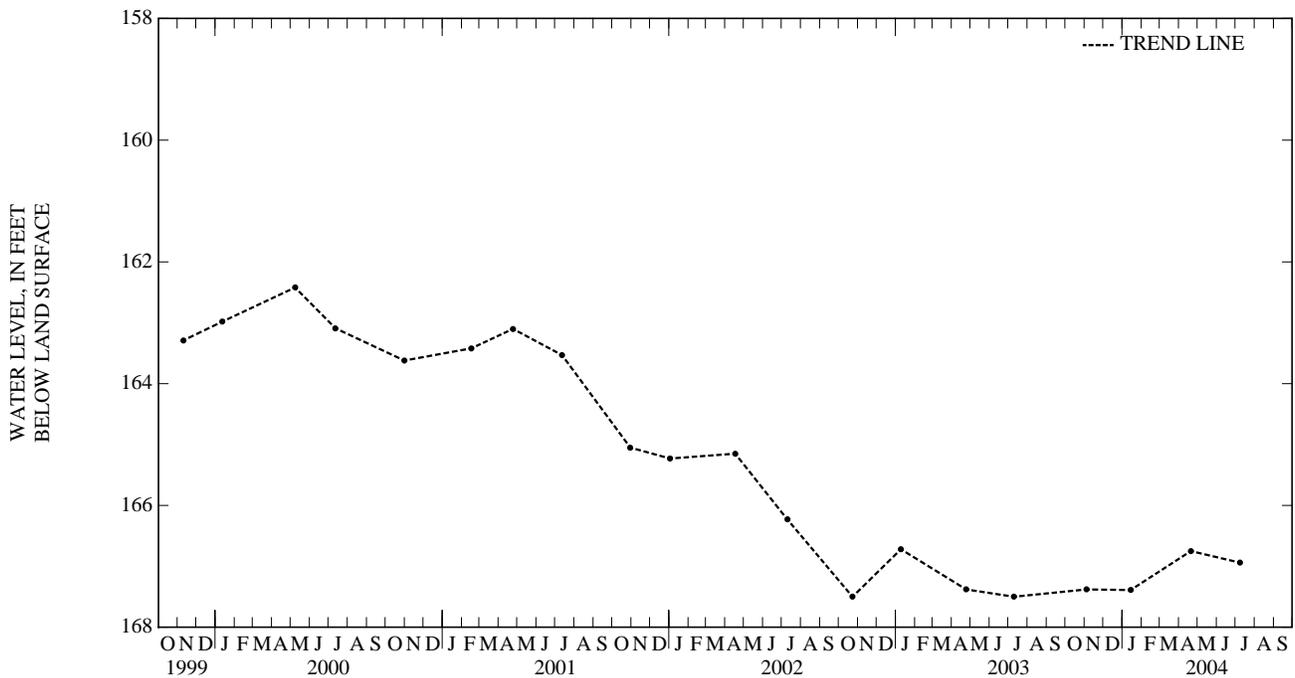
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 139.90 ft below land-surface datum, Apr. 24, July 24, 1980; lowest measured, 167.50 ft below land-surface datum, Oct. 23, 2002 and July 10, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	167.38	JAN 14	167.39	APR 20	166.75	JUL 08	166.94
WATER YEAR 2004 HIGHEST		166.75 APR 20, 2004		LOWEST		167.39 JAN 14, 2004	



GROUND-WATER LEVELS

ISLE OF WIGHT COUNTY—Continued

370253076431201. Local number, 57E 14 SOW 144A.

LOCATION.--Lat 37°02'54", long 76°43'11", NAD83, Hydrologic Unit 02080208, 0.5 mi east of State Highway 627, 1.0 mi north of State Highway 621, and 2.5 mi southwest of Rushmere. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 590 ft, diameter 3 in. from 590 to 600 ft, depth 600 ft, screened 590 to 600 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 86 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

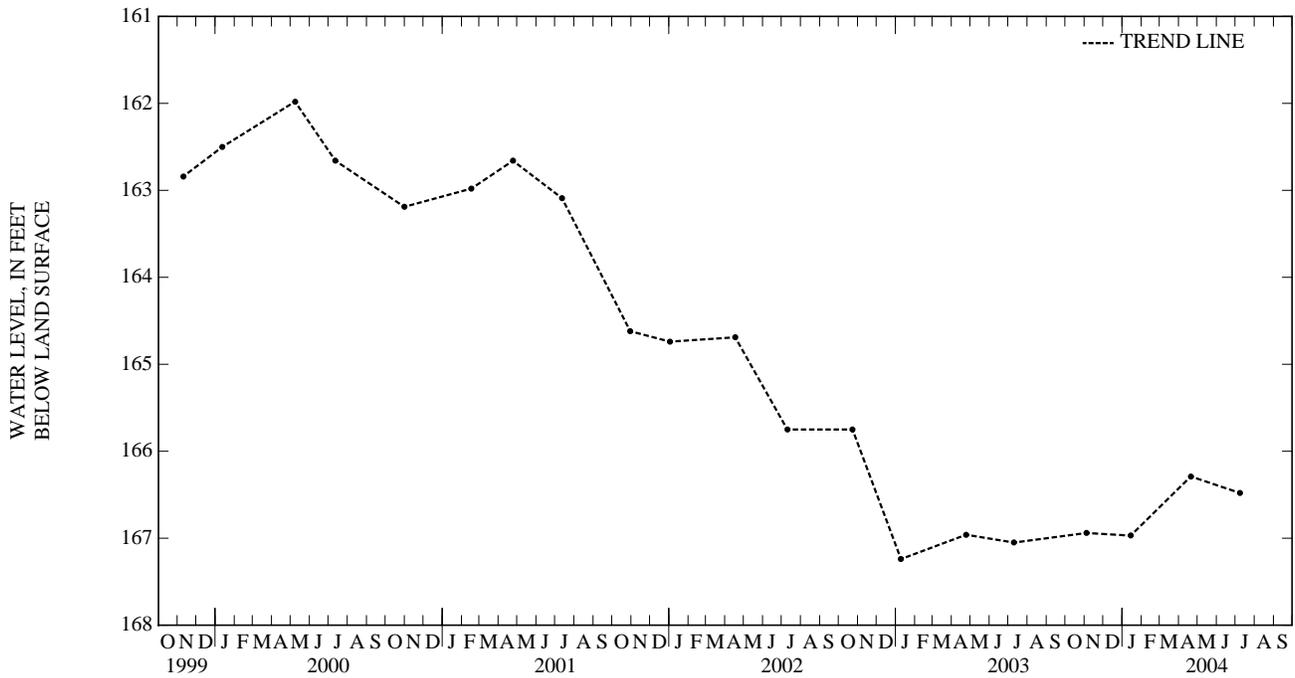
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 139.49 ft below land-surface datum, Apr. 24, 1980; lowest measured, 167.24 ft below land-surface datum, Jan. 9, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	166.94	JAN 14	166.97	APR 20	166.29	JUL 08	166.48
WATER YEAR 2004 HIGHEST		166.29 APR 20, 2004		LOWEST		166.97 JAN 14, 2004	



ISLE OF WIGHT COUNTY—Continued

370253076431202. Local number, 57E 15 SOW 144C.

LOCATION.--Lat 37°02'54", long 76°43'11", NAD83, Hydrologic Unit 02080208, 0.5 mi east of State Highway 627, 1.0 mi north of State Highway 621, and 2.5 mi southwest of Rushmere. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 86 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

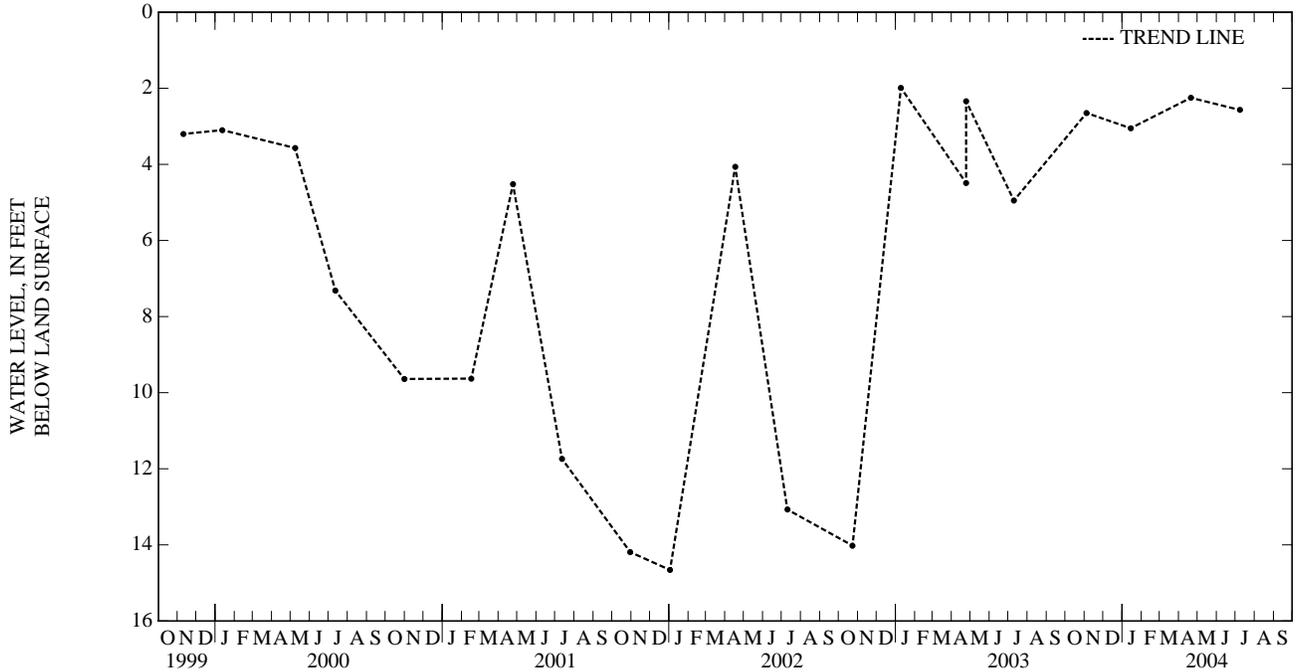
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.88 ft below land-surface datum, Feb. 17, 1994; lowest measured, 14.66 ft below land-surface datum, Jan. 2, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	2.65	JAN 14	3.05	APR 20	2.25	JUL 08	2.57
WATER YEAR 2004 HIGHEST		2.25	APR 20, 2004 LOWEST		3.05	JAN 14, 2004	



GROUND-WATER LEVELS

JAMES CITY COUNTY

372546076532901. Local number, 55H 20.

LOCATION.--Lat 37°25'47", long 76°53'28", NAD83, Hydrologic Unit 02080206, 100 ft north of State Highway 603, 700 ft east of the pumping station at Diascund Creek Reservoir, and 0.6 mi northwest of the intersection of U.S. Highway 60 and State Highway 603 in James City County. Owner: City of Newport News.

AQUIFER.--Lower and middle Potomac aquifers of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 12 in. to 300 ft, diameter 6 in. from 300 to 735 ft, depth 735 ft, screened 515 to 540 ft, 600 to 620 ft, 630 to 655 ft, 665 to 685 ft, 720 to 730 ft.

INSTRUMENTATION.--Electronic data logger, 60-minute record interval. Prior to Nov. 4, 1999, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 28 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 3.6 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Water level affected by regional drawdown.

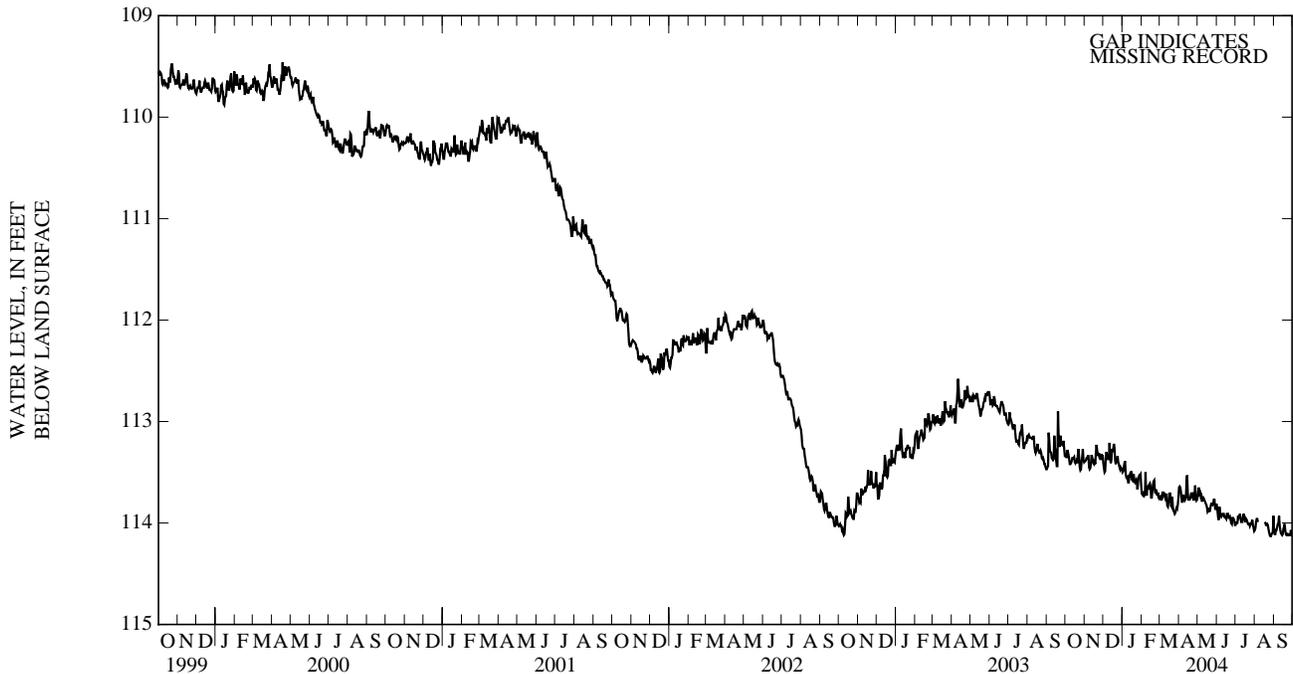
PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 90.99 ft below land-surface datum, June 4, 1988; lowest recorded, 114.13 ft below land-surface datum, Aug. 26, 27, 2004.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 112.93 ft below land-surface datum, Dec. 11; lowest instantaneous water level, 114.13 ft below land-surface datum, Aug. 26, 27.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.30	113.36	113.35	113.39	113.73	113.75	113.76	113.70	113.84	113.93	113.96	114.07
10	113.41	113.46	113.37	113.60	113.65	113.76	113.78	113.75	113.91	113.99	---	114.02
15	113.35	113.41	113.27	113.49	113.64	113.79	113.70	113.82	113.95	113.93	---	114.11
20	113.41	113.23	113.38	113.59	113.59	113.84	113.72	113.89	113.95	113.99	114.02	114.11
25	113.48	113.36	113.40	113.67	113.70	113.91	113.77	113.82	114.01	114.01	114.12	114.12
EOM	113.40	113.34	113.48	113.63	113.76	113.75	113.77	113.81	114.02	114.08	113.93	114.13



JAMES CITY COUNTY—Continued

371311076463601. Local number, 56F 1 SOW 018.

LOCATION.--Lat 37°13'12", long 76°46'35", NAD83, Hydrologic Unit 02080206, 1,100 ft southwest of Colonial Parkway, 0.5 mi west of State Highway 682, and 0.6 mi north of Jamestown. Owner: U.S. Department of Interior, Colonial National Historical Park.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 346 ft, screened 336 to 346 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Sept. 30, 1980, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to Sept. 30, 1980, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top edge of recorder shelf, 3.15 ft above land-surface datum.

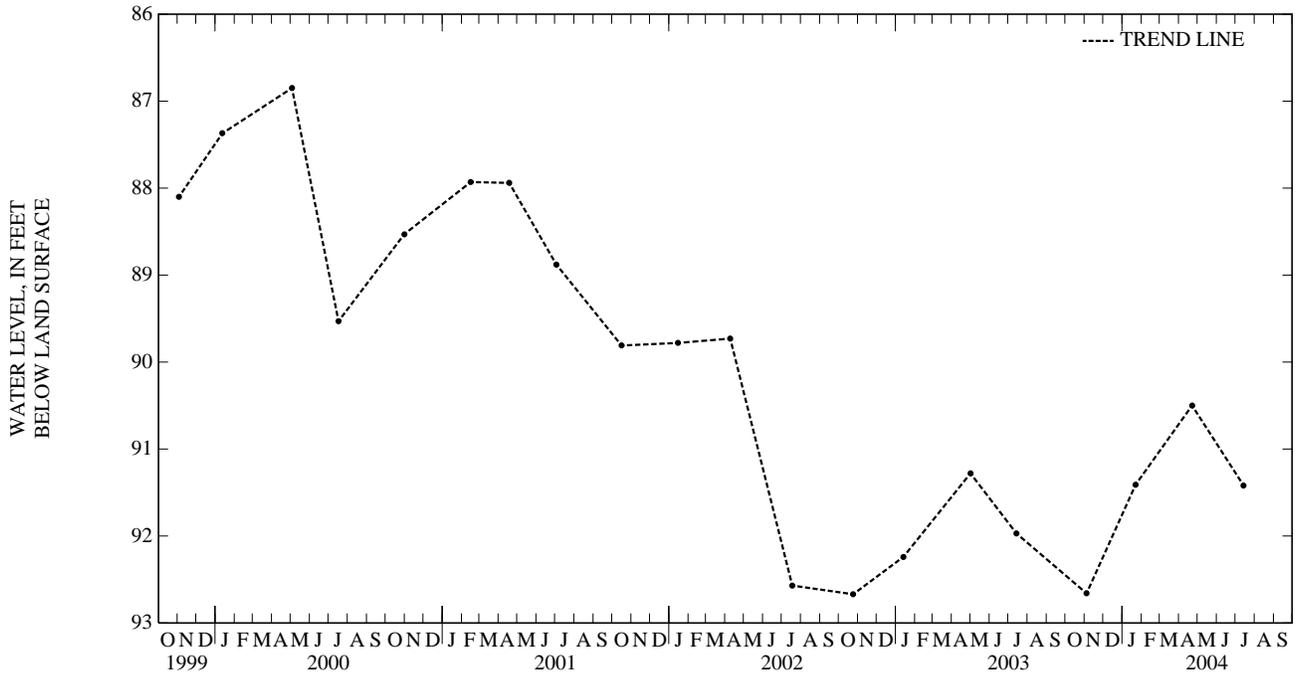
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.29 ft below land-surface datum, May 8, 1969; lowest measured, 92.67 ft below land-surface datum, Oct. 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	92.66	JAN 22	91.41	APR 22	90.50	JUL 14	91.42
WATER YEAR 2004 HIGHEST		90.50	APR 22, 2004 LOWEST		92.66	NOV 04, 2003	



GROUND-WATER LEVELS
 JAMES CITY COUNTY—Continued

372145076493201. Local number, 56G 57.

LOCATION.--Lat 37°21'46", long 76°49'31", NAD83, Hydrologic Unit 02080206, 1.75 mi south of the intersection of U.S. Highway 60 and State Highway 631 (Church Lane), off a dirt road at the end of State Highway 631, and 0.10 mi north of the pump station at Little Creek Reservoir. Owner: City of Newport News.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 12 in. to 300 ft, diameter 6 in. from 300 to 695 ft, depth 695 ft, screened 530 to 540 ft, 558 to 598 ft, 604 to 624 ft, 660 to 690 ft.

INSTRUMENTATION.--Electronic data logger, 60-minute record interval. Prior to Nov.4, 1999, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 84 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 4.3 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Water level affected by regional drawdown.

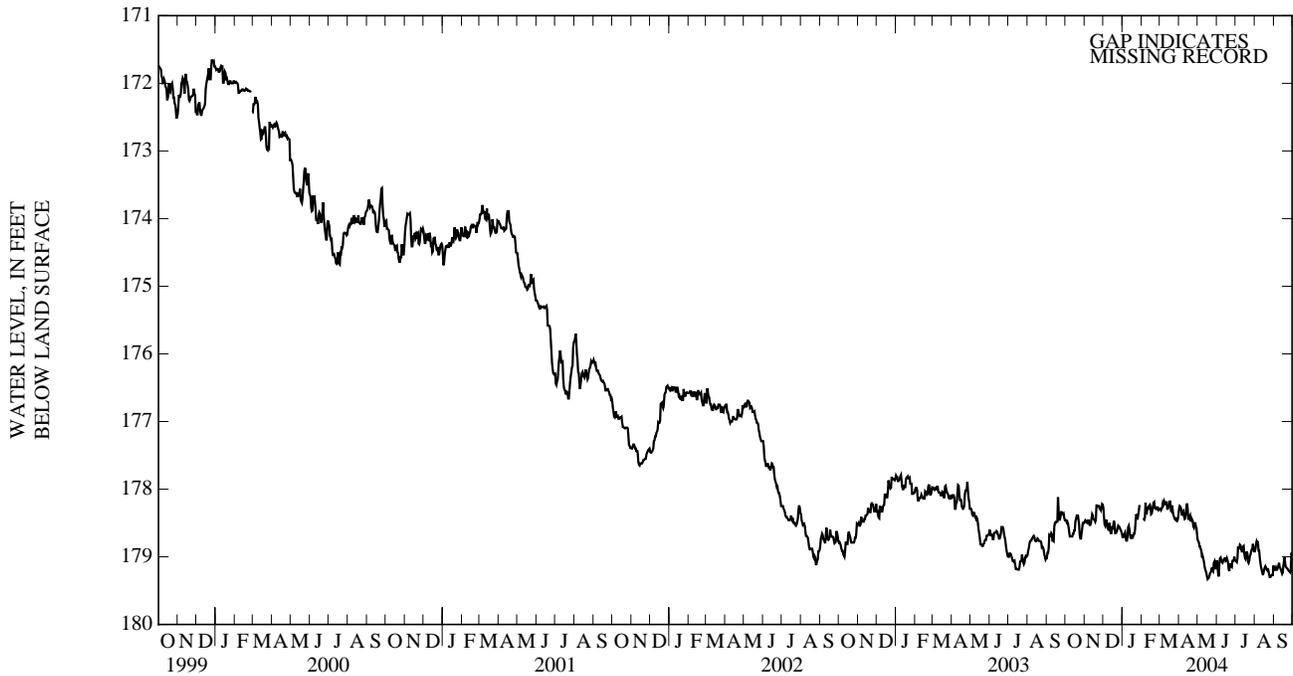
PERIOD OF RECORD.--May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 155.79 ft below land-surface datum, May 25, 1988; lowest recorded, 179.33 ft below land-surface datum, May 17, 2004.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 178.07 ft below land-surface datum, Mar. 16; lowest instantaneous water level, 179.33 ft below land-surface datum, May 17.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	178.51	178.50	178.49	178.64	178.45	178.27	178.34	178.85	179.09	178.85	178.79	179.19
10	178.70	178.53	178.60	178.56	178.28	178.22	178.44	179.03	179.09	178.89	179.09	179.15
15	178.61	178.44	178.55	178.67	178.27	178.25	178.31	179.24	179.06	178.95	179.24	179.23
20	178.41	178.24	178.65	178.66	178.20	178.33	178.48	179.28	179.19	178.95	179.19	179.15
25	178.73	178.29	178.54	178.45	178.27	178.44	178.57	179.21	179.15	178.97	179.30	179.21
EOM	178.50	178.23	178.66	---	178.30	178.38	178.67	179.12	179.05	178.92	179.13	178.97



JAMES CITY COUNTY—Continued

372314076480401. Local number, 56H 22 SOW 135A.

LOCATION.--Lat 37°23'14", long 76°48'05", NAD83, Hydrologic Unit 02080107, 100 ft south of State Highway 754, 0.2 mi east of intersection of U.S. Highway 60 and State Highway 754, and 0.5 mi north of Toano. Owner: James City Service Authority.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 2 in., depth 645 ft, screened 625 to 645 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 105 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.50 ft above land-surface datum prior to Mar. 3, 1988; at land-surface datum Mar. 3, 1988, to Mar. 1, 1989; 0.50 ft below land-surface datum prior to May 5, 1997; 0.85 ft below land surface datum thereafter.

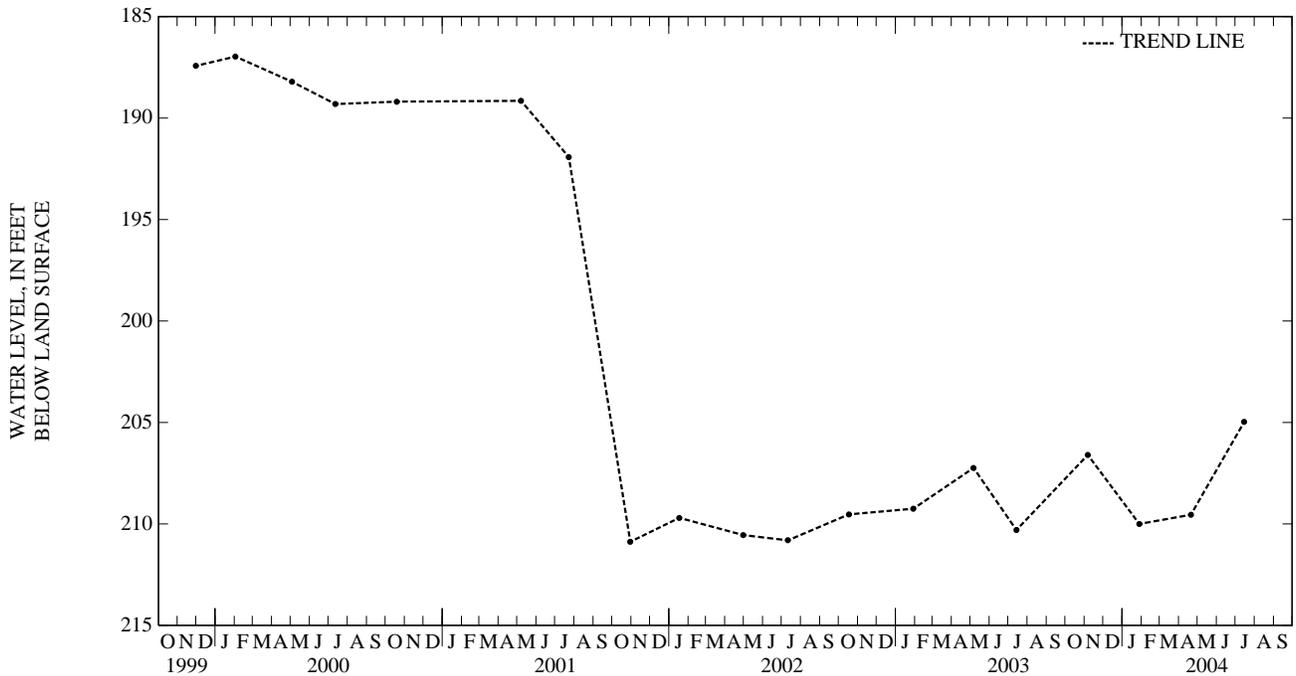
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown and occasional local pumpage.

PERIOD OF RECORD.--March 1979 to October 1995, May 1997 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 154.85 ft below land-surface datum, Apr. 5, 1979; lowest measured, 210.88 ft below land-surface datum, Oct. 30, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	206.60	JAN 28	210.00	APR 20	209.55	JUL 15	204.97
WATER YEAR 2004 HIGHEST 204.97		JUL 15, 2004		LOWEST 210.00		JAN 28, 2004	



GROUND-WATER LEVELS

JAMES CITY COUNTY—Continued

372506076511701. Local number, 56H 25 SOW 177A.

LOCATION.--Lat 37°24'52", long 76°51'32", NAD83, Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 929 ft, screened 888 to 908 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 28, 1995 to Sept. 30, 1999, occasional measurement with chalked tape by USGS personnel. Sept. 25, 1991 to Sept. 28, 1995, monthly measurement with chalked tape. Apr. 20, 1988 to Sept. 25, 1991, occasional measurement with chalked tape. Prior to Apr. 20, 1988, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.15 ft above land-surface datum prior to Mar. 31, 1994; 1.00 ft thereafter.

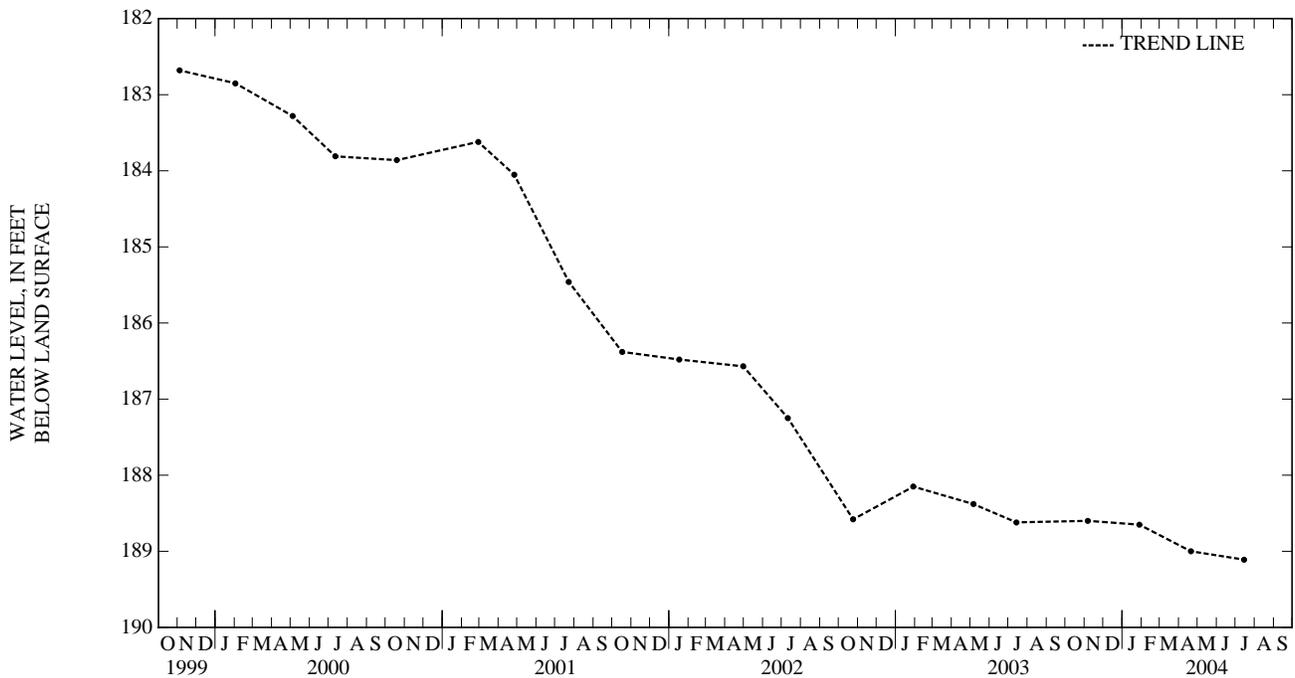
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 158.21 ft below land-surface datum, Mar. 19, 20, 1986; lowest measured, 189.11 ft below land-surface datum, July 15, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	188.60	JAN 28	188.65	APR 20	189.00	JUL 15	189.11
WATER YEAR 2004 HIGHEST 188.60		NOV 06, 2003		LOWEST 189.11		JUL 15, 2004	



JAMES CITY COUNTY—Continued

372506076511702. Local number, 56H 26 SOW 177B.

LOCATION.--Lat 37°24'52", long 76°51'32", NAD83, Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 581 ft, screened 550 to 560 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 28, 1995 to Sept. 30, 1999, occasional measurement with chalked tape by USGS personnel. Sept. 25, 1991 to Sept. 28, 1995, monthly measurement with chalked tape. Prior to Sept. 25, 1991, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 103 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.15 ft above land-surface datum prior to Mar. 31, 1994; 0.65 ft thereafter.

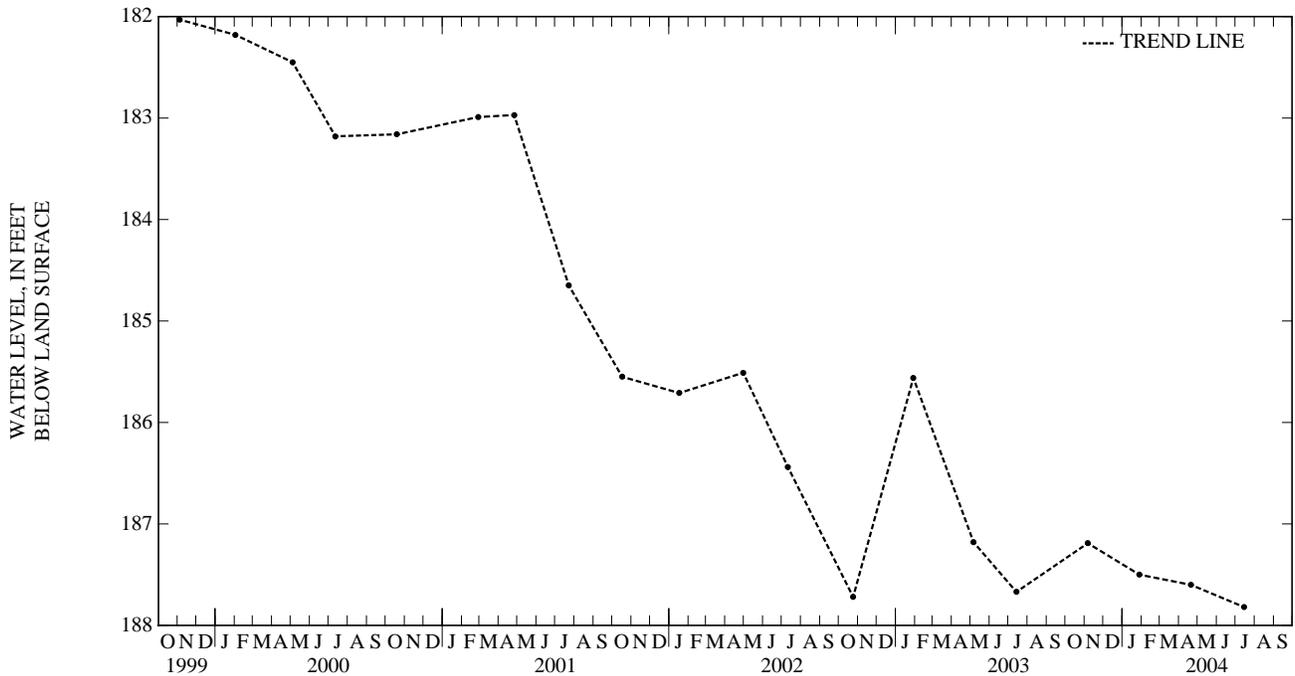
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records prior to October 1986 and fragmentary periods of continuous record for water years 1985-89 available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 157.61 ft below land-surface datum, June 1, 2, 1985; lowest measured, 187.82 ft below land-surface datum, July 15, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	187.19	JAN 28	187.50	APR 20	187.60	JUL 15	187.82
WATER YEAR 2004 HIGHEST 187.19		NOV 06, 2003		LOWEST 187.82		JUL 15, 2004	



GROUND-WATER LEVELS
 JAMES CITY COUNTY—Continued

372506076511703. Local number, 56H 27 SOW 177C.

LOCATION.--Lat 37°24'52", long 76°51'32", NAD83, Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 401 ft, screened 370 to 380 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 26, 1993 to Sept. 30, 1999, monthly measurement with chalked tape by USGS personnel. Prior to Aug. 26, 1993, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.95 ft above land-surface datum prior to Mar. 31, 1994; 1.35 ft thereafter.

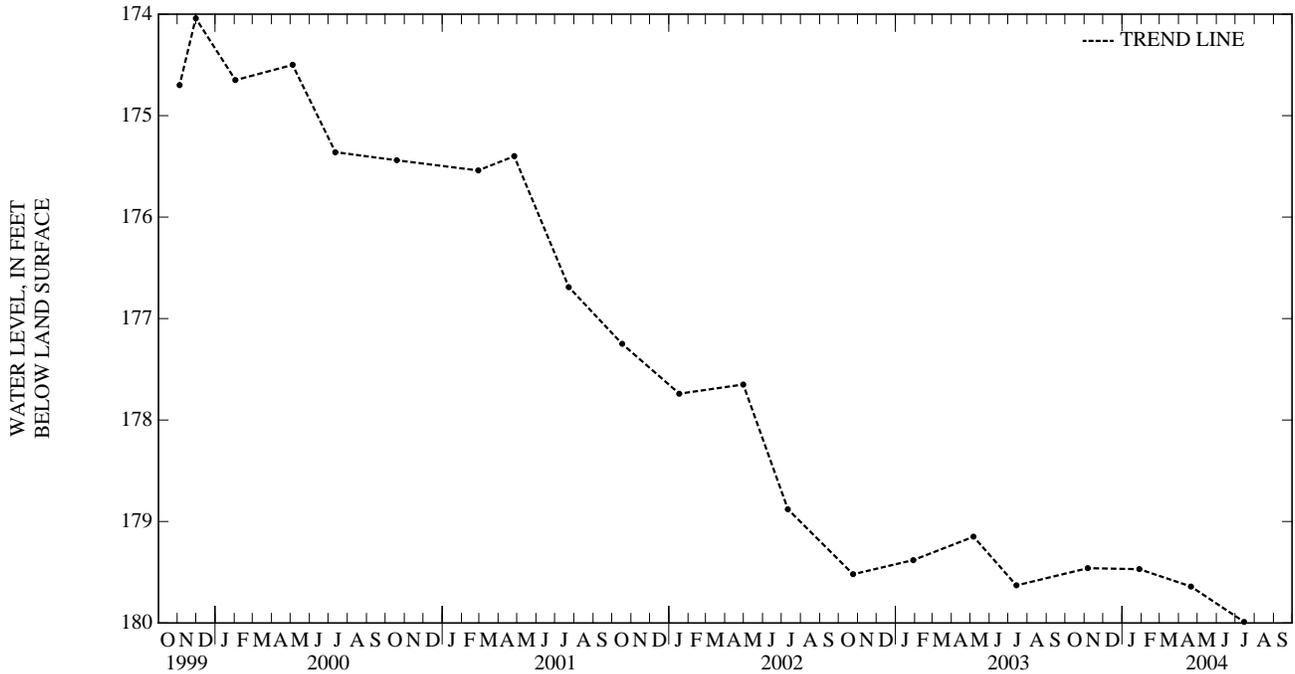
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 153.47 ft below land-surface datum, June 1, 2, 1985; lowest measured, 179.99 ft below land-surface datum, July 15, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	179.46	JAN 28	179.47	APR 20	179.64	JUL 15	179.99
WATER YEAR 2004 HIGHEST 179.46		NOV 06, 2003		LOWEST 179.99		JUL 15, 2004	



JAMES CITY COUNTY—Continued

372506076511704. Local number, 56H 28 SOW 177D.

LOCATION.--Lat 37°24'52", long 76°51'32", NAD83, Hydrologic Unit 02080206, 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168, 0.7 mi north of the intersection of State Highways 168 and 601, and on the northwest side of State Highway 601 in James City County. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 321 ft, screened 290 to 300 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 28, 1995 to Sept. 30, 1999, occasional measurement with chalked tape by USGS personnel. Sept. 25, 1991 to Sept. 28, 1995, monthly measurement with chalked tape. Sept. 16, 1989 to Sept. 25, 1991, occasional measurement with chalked tape. Prior to Sept. 16, 1989, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum prior to Dec. 4, 1989; 0.9 ft thereafter.

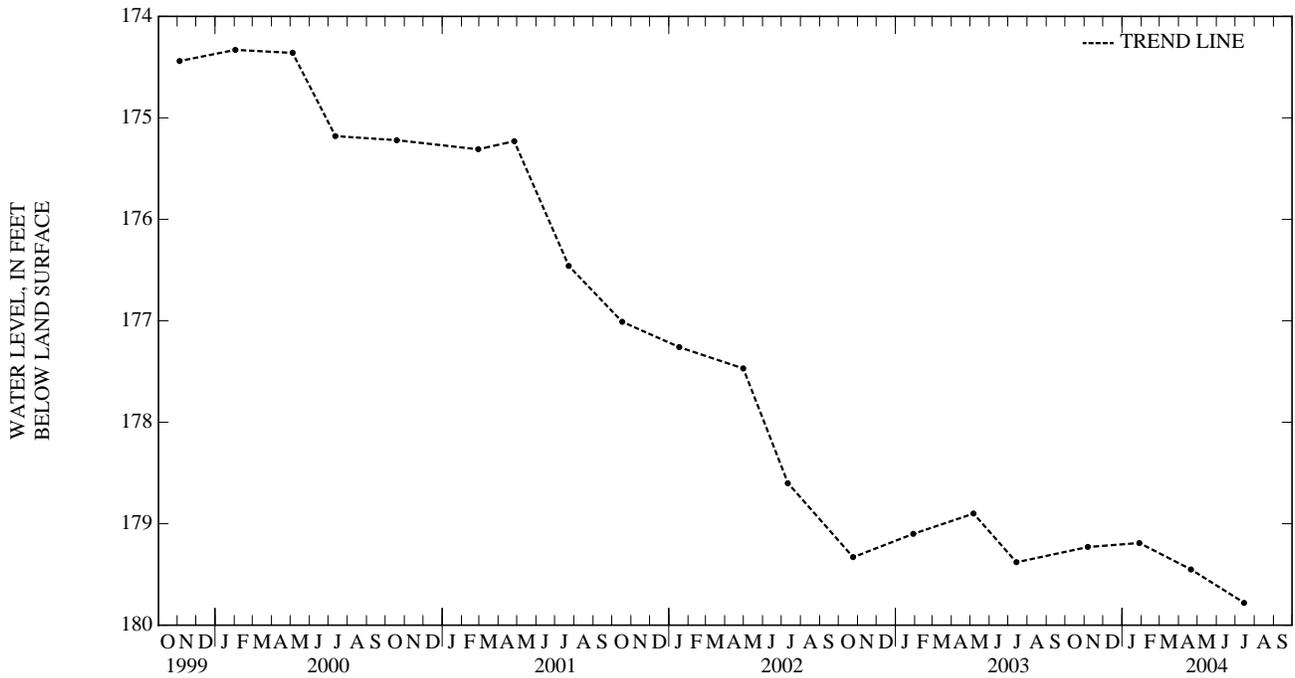
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 153.20 ft below land-surface datum, May 31, 1985; lowest measured, 179.78 ft below land-surface datum, July 15, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	179.23	JAN 28	179.19	APR 20	179.45	JUL 15	179.78
WATER YEAR 2004 HIGHEST		179.19 JAN 28, 2004		LOWEST		179.78 JUL 15, 2004	



GROUND-WATER LEVELS

JAMES CITY COUNTY—Continued

372506076511705. Local number, 56H 29 SOW 177E.

LOCATION.--Lat 37°24'52", long 76°51'32", NAD83, Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 235 ft, screened 204 to 214 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 28, 1995 to Sept. 30, 1999, occasional measurement with chalked tape by USGS personnel. Sept. 25, 1991 to Sept. 28, 1995, monthly measurement with chalked tape. Sept. 21, 1989 to Sept. 25, 1991, occasional measurement with chalked tape. Prior to Sept. 21, 1989, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum prior to Dec. 4, 1989; 0.75 ft thereafter.

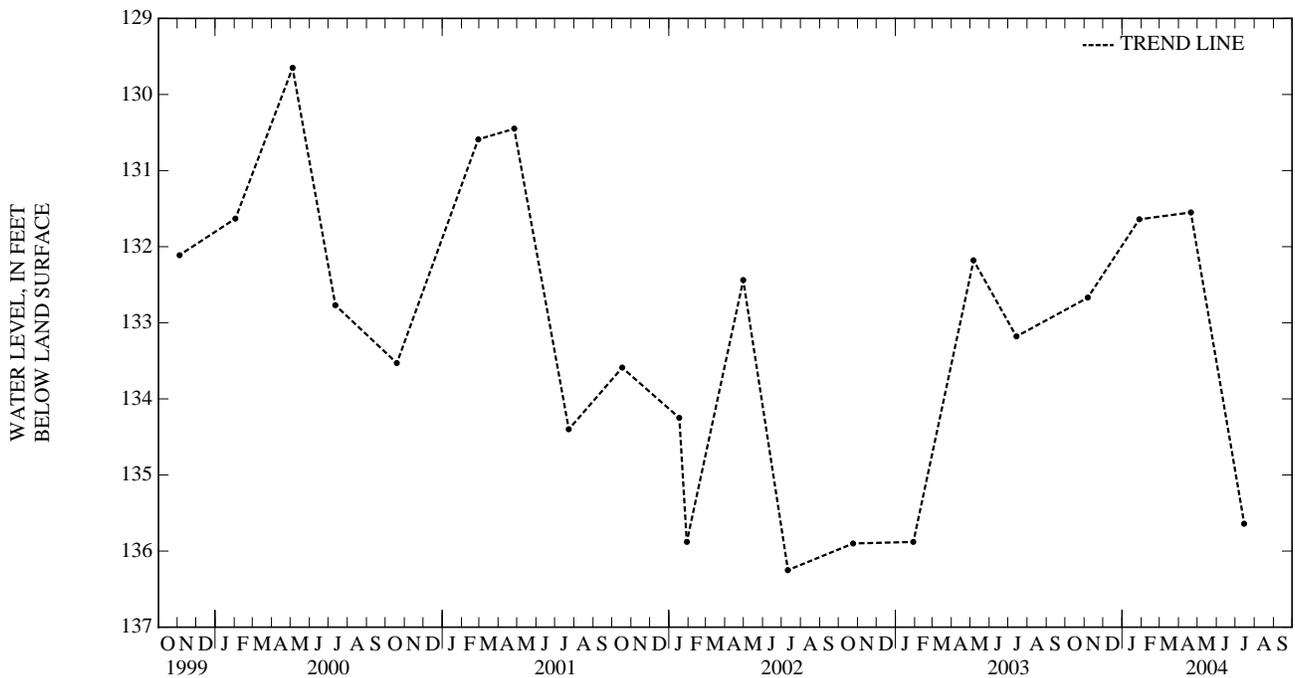
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 111.96 ft below land-surface datum, Feb. 27, 1986; lowest measured, 136.25 ft below land-surface datum, July 11, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	132.67	JAN 28	131.64	APR 20	131.55	JUL 15	135.64
WATER YEAR 2004 HIGHEST		131.55	APR 20, 2004 LOWEST		135.64	JUL 15, 2004	



JAMES CITY COUNTY—Continued

372506076511706. Local number, 56H 30 SOW 177F.

LOCATION.--Lat 37°24'52", long 76°51'32", NAD83, Hydrologic Unit 02080206, on the northwest side of State Highway 601 in James City County, 0.7 mi north of the intersection of State Highways 168 and 601, and 3.15 mi west of the intersection of U.S. Highway 60 and State Highway 168. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 60 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Divison personnel. Sept. 28, 1995 to Sept. 30, 1999, occasional measurement with chalked tape by USGS personnel. Sept. 25, 1991 to Sept. 28, 1995, monthly measurement with chalked tape. Sept. 20, 1989 to Sept. 25, 1991, occasional measurement with chalked tape. Prior to Sept. 20, 1989, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 103 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum prior to Dec. 4, 1989; 1.1 ft thereafter.

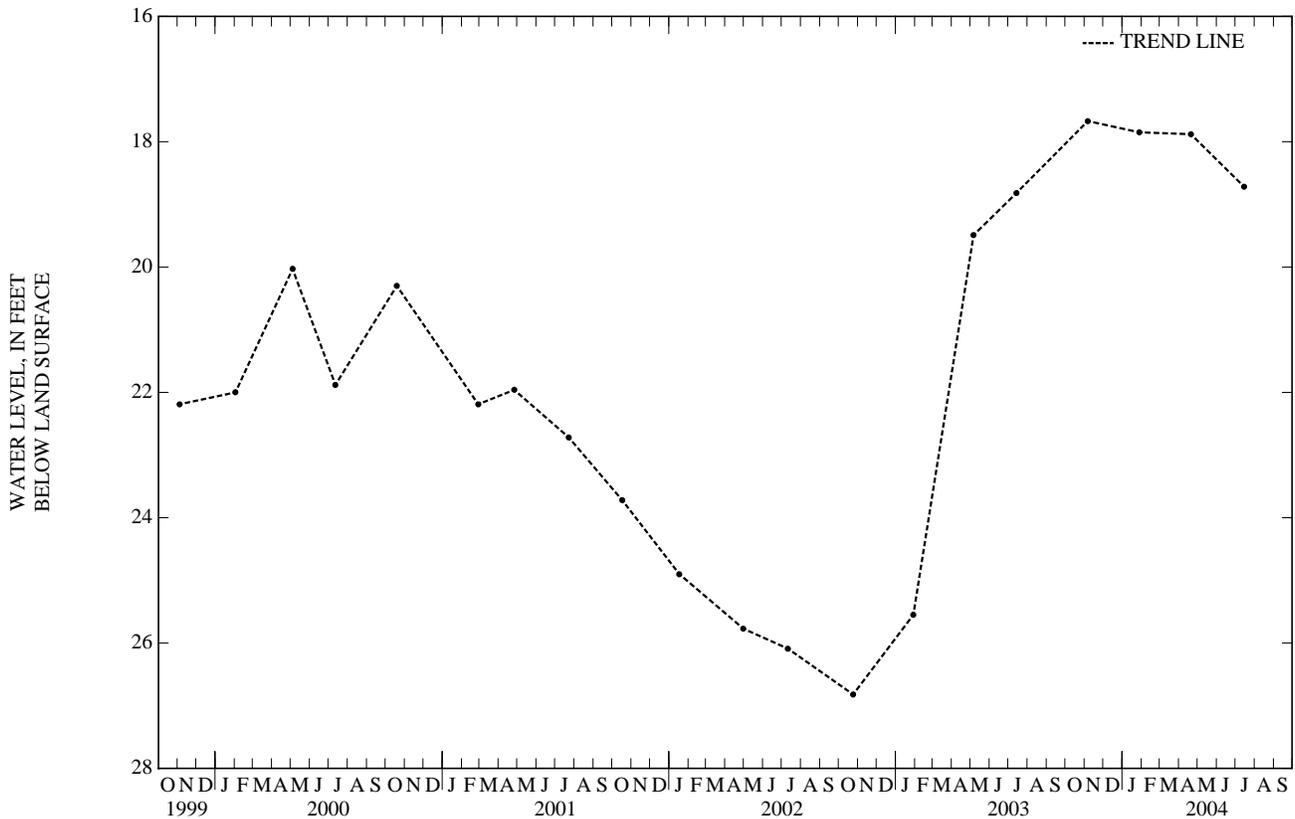
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Divison.

PERIOD OF RECORD.--April 1985 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.73 ft below land-surface datum, June 29, 1998; lowest measured, 26.82 ft below land-surface datum, Oct. 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	17.67	JAN 28	17.85	APR 20	17.88	JUL 15	18.72
WATER YEAR 2004 HIGHEST 17.67		NOV 06, 2003		LOWEST 18.72		JUL 15, 2004	



GROUND-WATER LEVELS

JAMES CITY COUNTY—Continued

372314076480402. Local number, 56H 31 SOW 135B.

LOCATION.--Lat 37°23'14", long 76°48'05", NAD83, Hydrologic Unit 02080107, 100 ft south of State Highway 754, 0.2 mi east of intersection of State Highway 754 and U.S. Highway 60, and 0.5 mi north of Toano. Owner: James City Service Authority.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 30 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 95 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum prior to Mar. 3, 1988; at land-surface datum Mar. 3, 1988, to Mar. 1, 1989; 0.2 ft below land-surface datum prior to May 5, 1997; 0.95 ft below land surface datum thereafter.

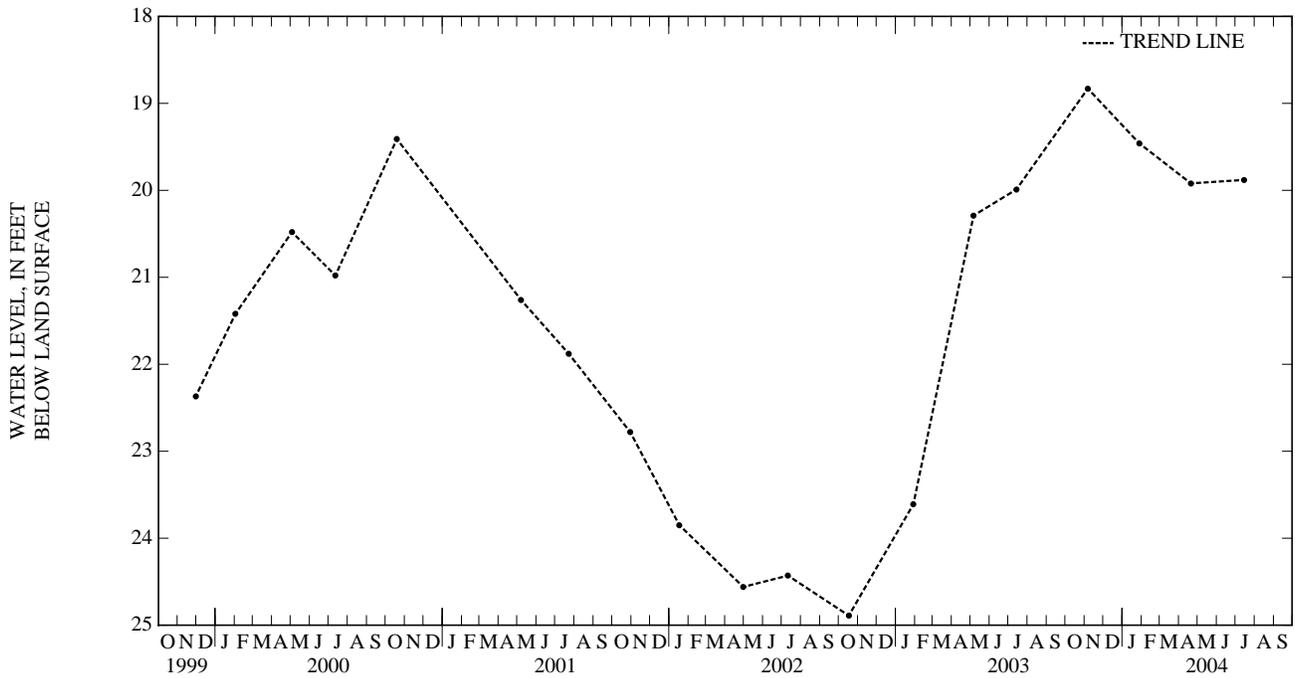
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--August 1979 to October 1995, May 1997 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.28 ft below land-surface datum, June 8, 1984; lowest measured, 24.89 ft below land-surface datum, Oct. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	18.83	JAN 28	19.46	APR 20	19.92	JUL 15	19.88
WATER YEAR 2004 HIGHEST 18.83		NOV 06, 2003		LOWEST 19.92		APR 20, 2004	



JAMES CITY COUNTY—Continued

372315076415001. Local number 57H 14 SOW 095.

LOCATION.--Lat 37°23'16", long 76°41'49", NAD83, Hydrologic Unit 02080107, 500 ft north of State Highway 606, 0.8 mi east of intersection of State Highway 606 and 646, and 3.3 mi east of Croaker. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 123 ft, screened 118 to 123 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 95 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Mar. 3, 1988; 1.4 ft thereafter.

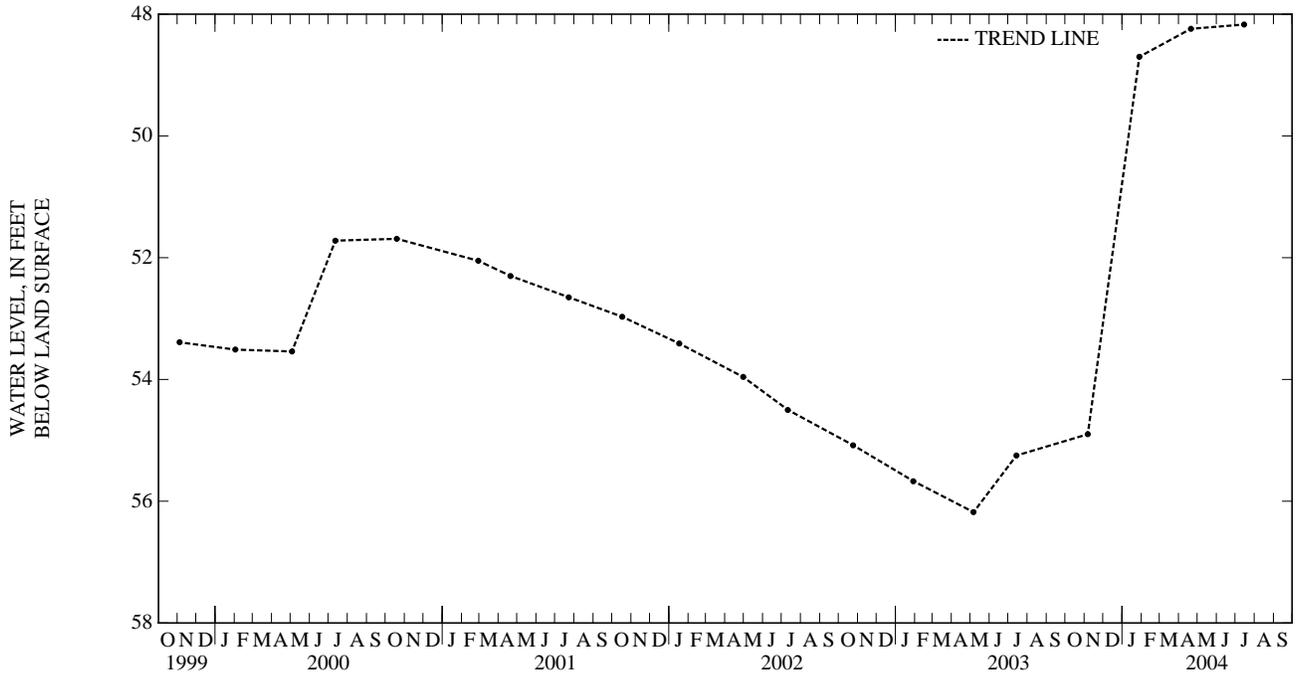
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--September 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.00 ft below land-surface datum, Sept. 21, 1978; lowest measured, 56.18 ft below land-surface datum, May 6, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	54.90	JAN 28	48.70	APR 20	48.24	JUL 15	48.17
WATER YEAR 2004 HIGHEST		48.17 JUL 15, 2004		LOWEST		54.90 NOV 06, 2003	



GROUND-WATER LEVELS
 JAMES CITY COUNTY—Continued

371149076353401. Local number, 58F127 SOW 195.

LOCATION.--Lat 37°11'50.04", long 76°35'32.83", NAD83, Hydrologic Unit 02080206, 1.2 mi. northwest of the intersection of State Highways 60 and 238 and 0.84 mi. south of the State Highway 60 bridge over Skiffes Creek Reservoir. Owner: Karl Barrs.

AQUIFER.--Upper Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 565 ft, screened 489 to 499 ft, and 520 to 560 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 51 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--January 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 139.30 ft below land-surface datum, Apr. 9, 2002; lowest measured, 145.85 ft below land-surface datum, Jan. 13, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

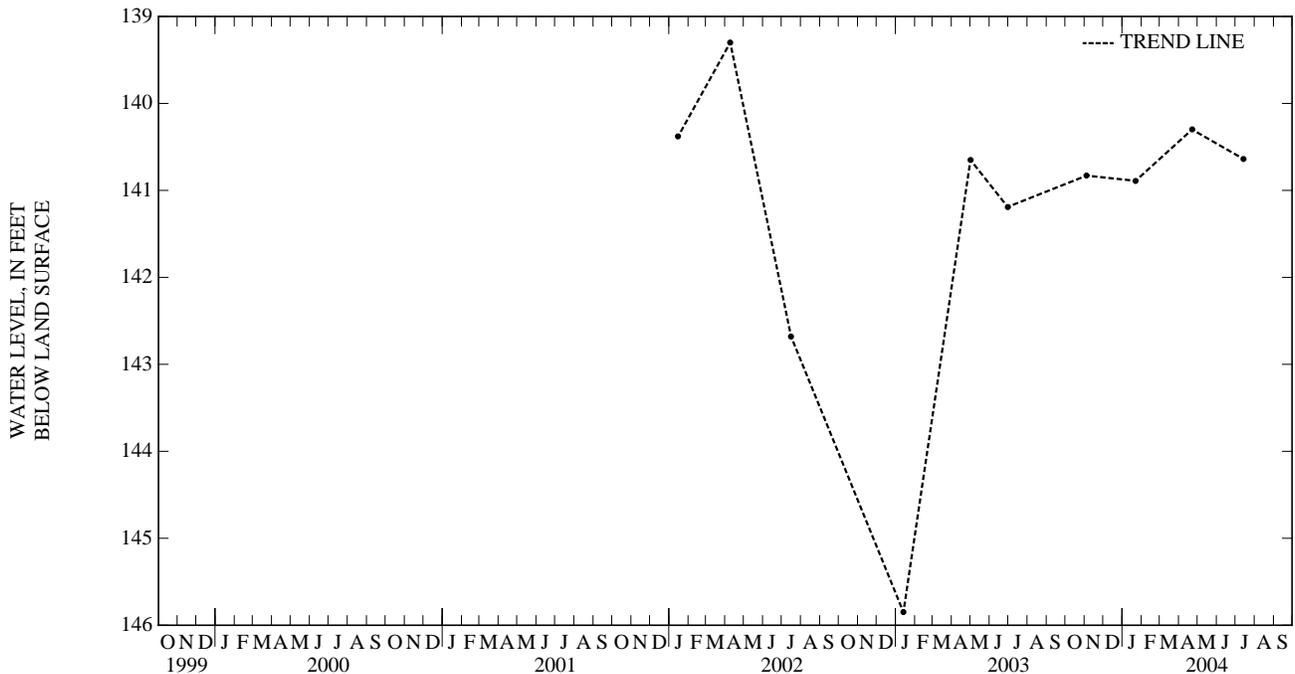
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 15	140.38	APR 09	139.30	JUL 16	142.68
WATER YEAR 2002 HIGHEST		139.30 APR 09, 2002	LOWEST		142.68 JUL 16, 2002

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	145.85	MAY 01	140.65	JUN 30	141.19
WATER YEAR 2003 HIGHEST		140.65 MAY 01, 2003	LOWEST		145.85 JAN 13, 2003

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	140.83	JAN 22	140.89	APR 22	140.30	JUL 14	140.64
WATER YEAR 2004 HIGHEST		140.30 APR 22, 2004	LOWEST		140.89 JAN 22, 2004		



KING AND QUEEN COUNTY

374328077012801. Local number, 54K 6 SOW 064.

LOCATION.--Lat 37°43'29", long 77°01'27", NAD83, Hydrologic Unit 02080105, 100 ft west of State Highway 629, 0.2 mi southeast of Walkerton, and 0.25 mi south of intersection of State Highways 629 and 634. Owner: C. L. Walker.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 66 ft, diameter 4 in. from 66 to 390 ft, depth 390 ft, screened 341 to 372 ft, 376 to 387 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 3, 1985, to July 11, 1995, bimonthly measurement with chalked tape. Apr. 30, 1979, to Oct. 2, 1985, occasional measurement with chalked tape. Jan. 5, 1974, to Apr. 30, 1979, continuous strip-chart recorder. Prior to Jan. 5, 1974, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.17 ft above land-surface datum prior to Nov. 18, 1985; 1.3 ft thereafter.

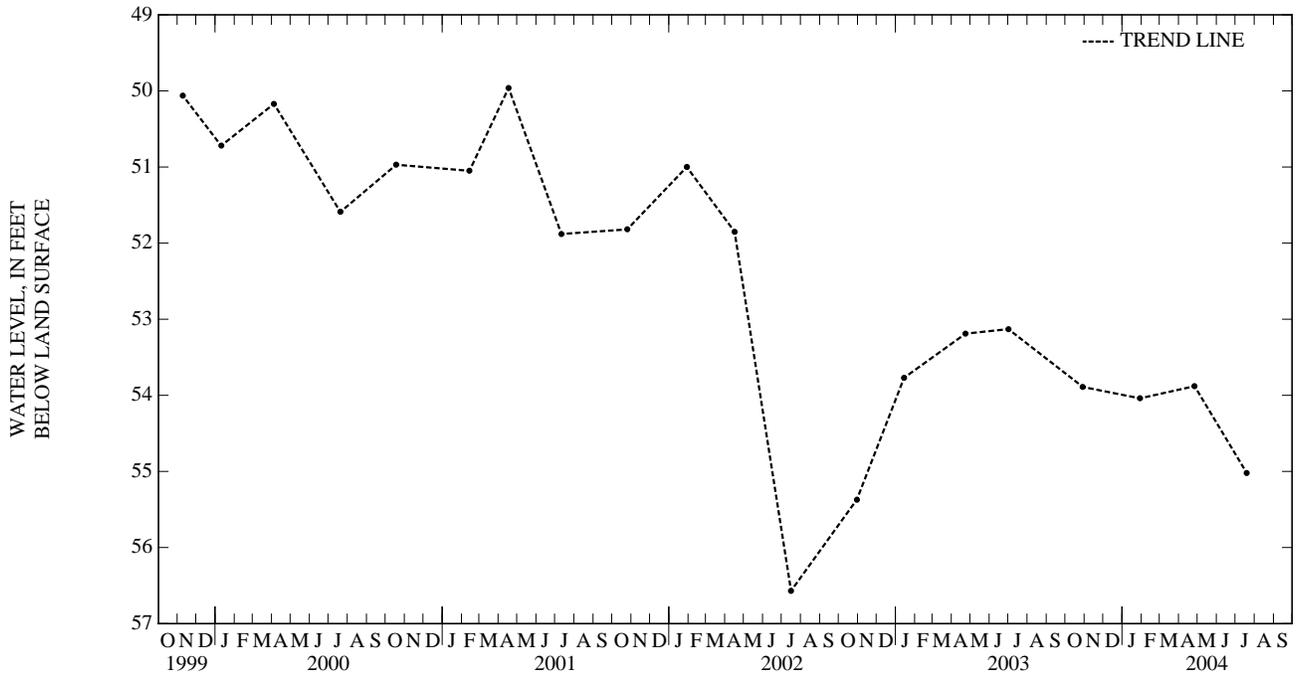
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--August 1972 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.82 ft below land-surface datum, Aug. 1, 1972; lowest measured, 56.57 ft below land-surface datum, July 16 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	53.89	JAN 29	54.04	APR 26	53.88	JUL 19	55.02
WATER YEAR 2004 HIGHEST		53.88	APR 26, 2004 LOWEST		55.02	JUL 19, 2004	



GROUND-WATER LEVELS
KING AND QUEEN COUNTY—Continued

374739077052701. Local number, 54L 10.

LOCATION.--Lat 37°47'40", long 77°05'26", NAD83, Hydrologic Unit 02080105, at Virginia Department of Transportation wayside picnic table, 50 ft north of U.S. Highway 360 and 1 mi. east of Mattaponi River. Owner: U.S. Geological Survey.

AQUIFER.--Chickhominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 96.21 ft, screened 86.21 ft to 96.21 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to October 1998, monthly measurement with chalked tape.

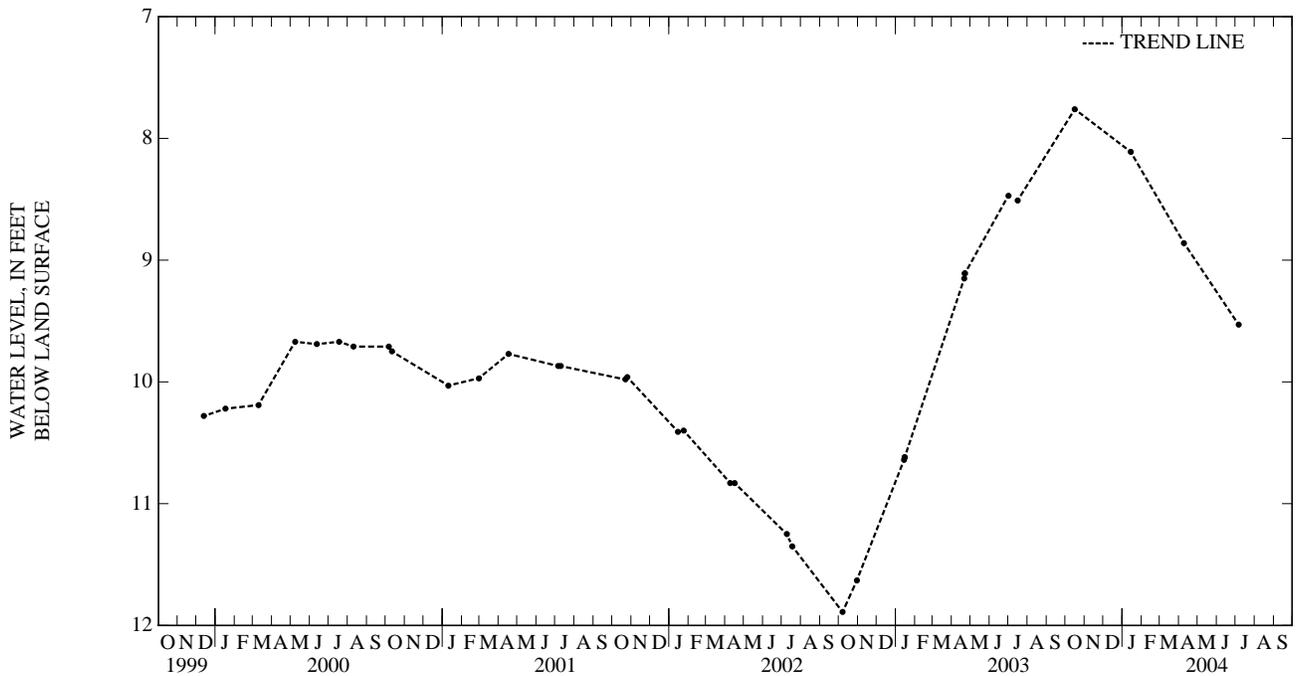
DATUM.--Elevation of land-surface datum is 52 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 3.06 ft above land-surface datum.

PERIOD OF RECORD.--May 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.76 ft below land-surface datum, Oct. 16, 2003; lowest measured, 11.89 ft below land-surface datum, Oct. 7, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	7.76	JAN 14	8.11	APR 09	8.86	JUL 06	9.53
WATER YEAR 2004 HIGHEST		7.76	OCT 16, 2003	LOWEST		9.53	JUL 06, 2004



KING AND QUEEN COUNTY—Continued

373126076454101. Local number, 56J 11 SOW 073.

LOCATION.--Lat 37°31'27", long 76°45'40", NAD83, Hydrologic Unit 02080105, at West Point Airport, 1.7 mi southeast of West Point. Owner: Smurfit-Stone Container Corporation.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 1,254 ft, screened 1,233 to 1,248 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.60 ft above land-surface datum prior to Mar. 15, 1993; 2.50 ft thereafter.

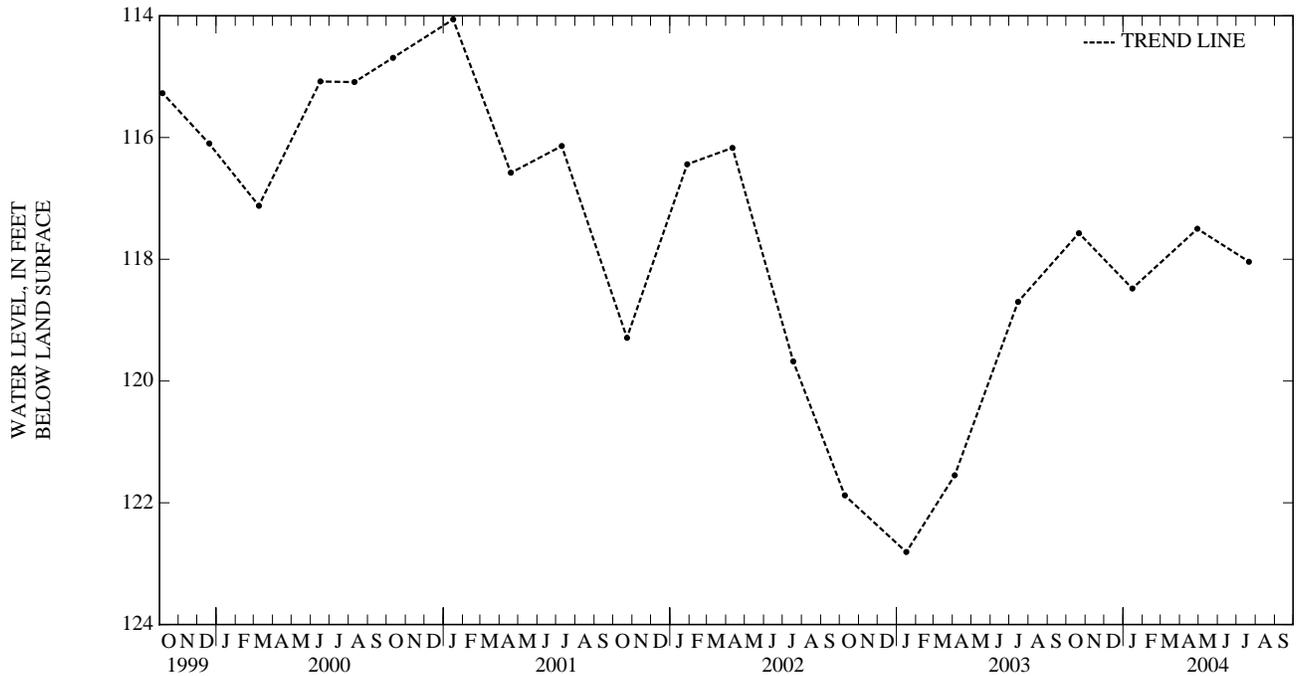
REMARKS.--Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--November 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.08 ft below land-surface datum, Apr. 25, 1975; lowest measured, 122.81 ft below land-surface datum, Jan. 16, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	117.57	JAN 15	118.48	APR 29	117.50	JUL 21	118.04
WATER YEAR 2004 HIGHEST		117.50 APR 29, 2004		LOWEST		118.48 JAN 15, 2004	



GROUND-WATER LEVELS
KING AND QUEEN COUNTY—Continued

373008076425601. Local number, 57J 3 SOW 074.

LOCATION.--Lat 37°30'09", long 76°42'55", NAD83, Hydrologic Unit 02080107, off State Highway 606, 0.4 mi northeast of intersection of State Highways 606 and 605, and 2.8 mi south of Shacklefords. Owner: Smurfit-Stone Container Corporation.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in. to 200 ft, diameter 4 in. from 200 to 760 ft, depth 760 ft, screened 741 to 756 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 51 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.20 ft above land-surface datum prior to Mar. 15, 1993; 2.60 ft thereafter.

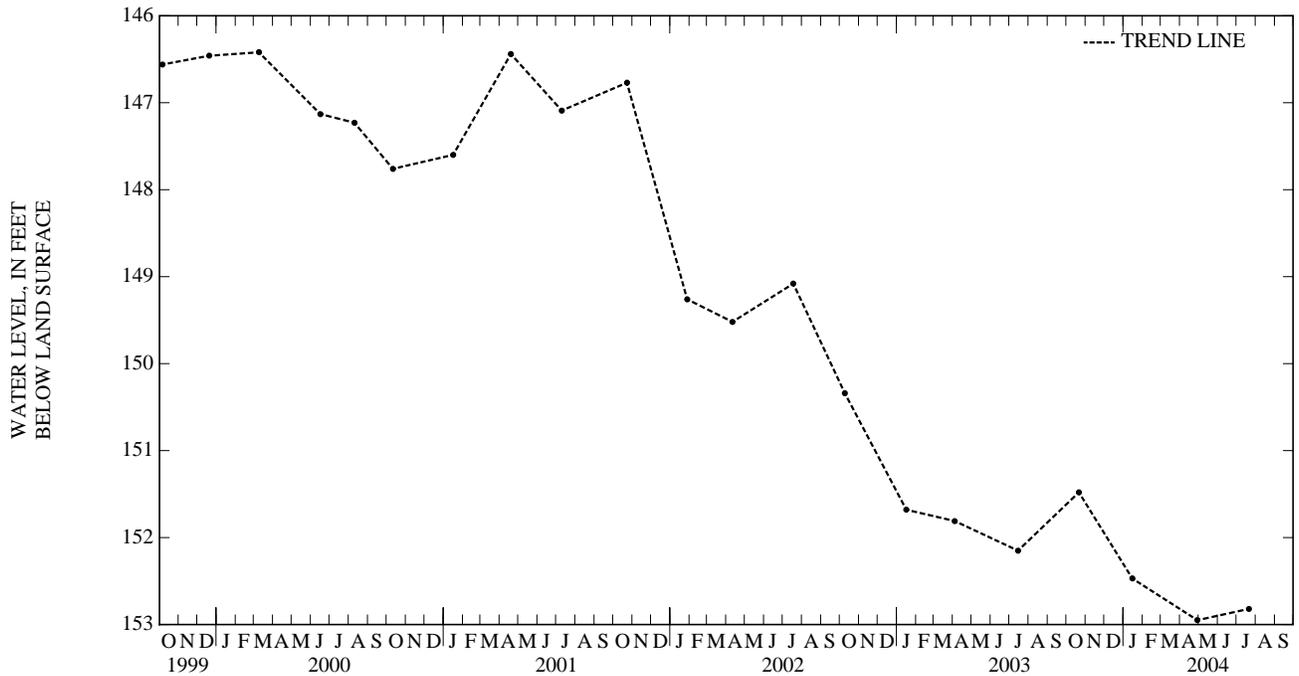
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--November 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 109.90 ft below land-surface datum, Jan. 26, 1975; lowest measured, 152.95 ft below land-surface datum, Apr. 29, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	151.48	JAN 15	152.47	APR 29	152.95	JUL 21	152.82
WATER YEAR 2004 HIGHEST 151.48		OCT 21, 2003		LOWEST 152.95		APR 29, 2004	



KING GEORGE COUNTY

382129077005801. Local number, 54Q 21.

LOCATION.--Lat 38°21'29", long 77°00'57", NAD83, Hydrologic Unit 02070011, 200 ft west of the Potomac River, 400 ft south of U.S. Highway 301, 750 ft east of Blandy Boulevard, and at the Naval Surface Warfare Center, Dahlgren Laboratory, in Dahlgren. Owner: U.S. Department of the Navy.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in. from 0 to 25 ft, diameter 4 in. from 0 to 219.25 ft, depth 219.25 ft, screened 197 to 217 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 26, 1994, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 20.46 ft above NGVD of 1929. Measuring point: Top of recorder shelf, 2.65 ft above land-surface datum prior to Nov. 4, 1994; top of casing, 2.10 ft thereafter.

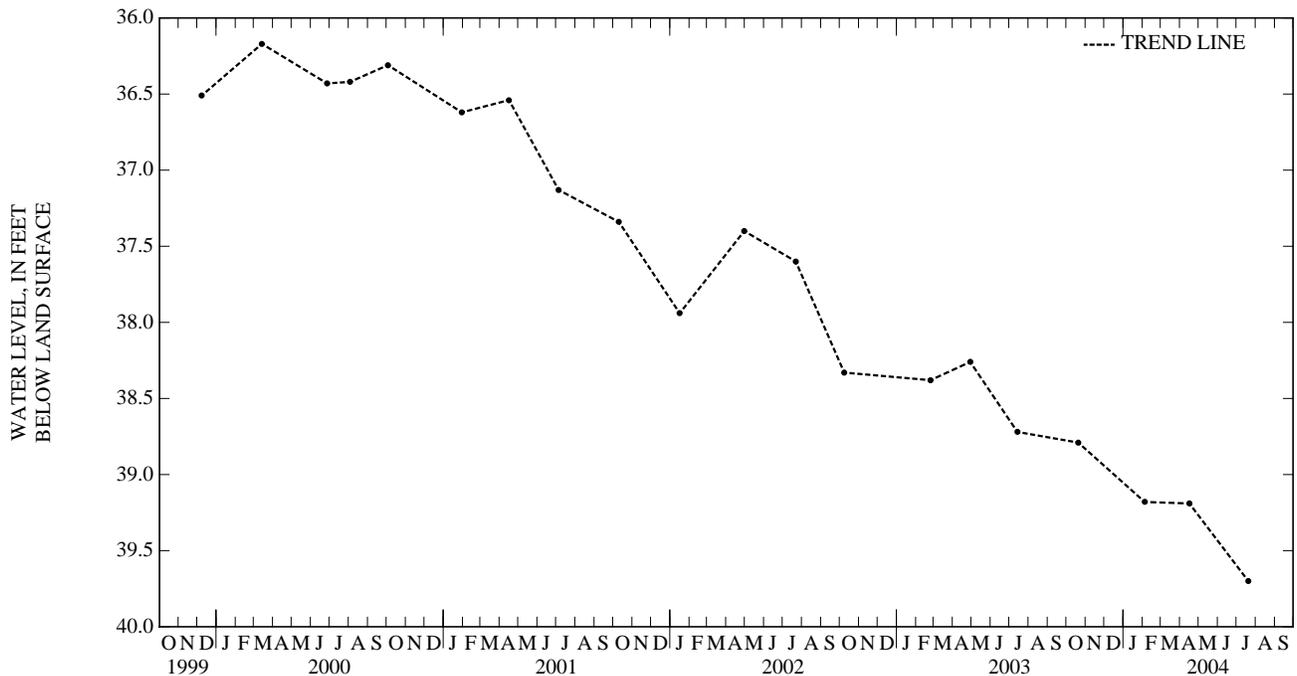
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 29.00 ft below land-surface datum, Mar. 4, 1993; lowest measured, 39.70 ft below land-surface datum, July 20, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	38.79	FEB 04	39.18	APR 16	39.19	JUL 20	39.70
WATER YEAR 2004 HIGHEST 38.79		OCT 20, 2003		LOWEST 39.70		JUL 20, 2004	



GROUND-WATER LEVELS
KING GEORGE COUNTY—Continued

382341077032401. Local number, 54R 2.

LOCATION.--Lat 38°23'41", long 77°03'23", NAD83, Hydrologic Unit 02070011, 50 ft southeast of steep bank of the Potomac River, 150 ft west of State Highway 687, 1.5 mi west of the intersection of U.S. Highway 301 and State Highway 614, 1.9 mi north of the intersection of State Highways 629 and 687, and near Dahlgren. Owner: E. V. Bruchez.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 210 ft, diameter 2 in. from 210 to 806 ft, depth 806 ft, screened 781 to 801 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 70 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

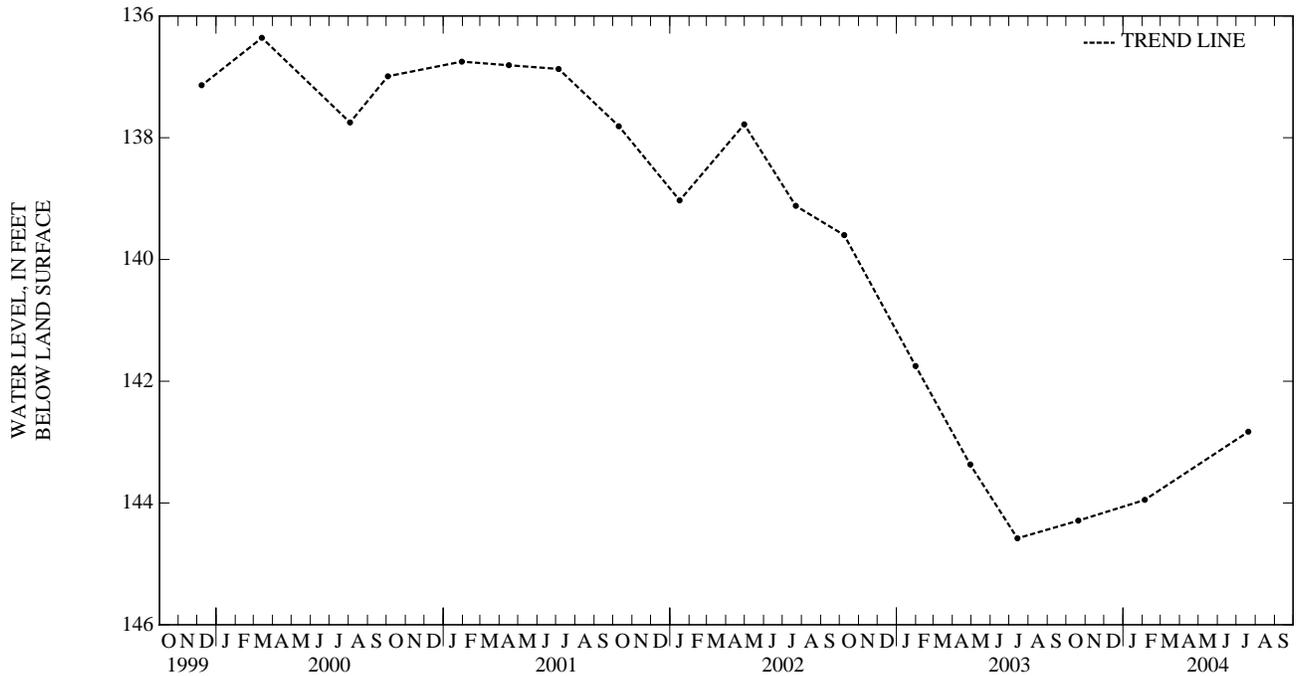
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--October 1969 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.00 ft below land-surface datum, Oct. 15, 1969; lowest measured, 144.58 ft below land-surface datum, July 14, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	144.29	FEB 04	143.95	JUL 20	142.83
WATER YEAR 2004 HIGHEST		142.83	JUL 20, 2004		LOWEST
					144.29
				OCT 20, 2003	



KING WILLIAM COUNTY

373226076481201. Local number, 56J 2.

LOCATION.--Lat 37°32'27", long 76°48'11", NAD83, Hydrologic Unit 02080106, 0.1 mi west of State Highway 30, 0.3 mi north of State Highway 33, and in West Point. Owner: Smurfit-Stone Container Corporation.

AQUIFER.--Brightseat-upper and middle Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused withdrawal water well, diameter 18 in. to 300 ft, diameter 8 in. from 300 to 600 ft, depth 600 ft, screened 390 to 400 ft, 550 to 570 ft, 580 to 600 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 25 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

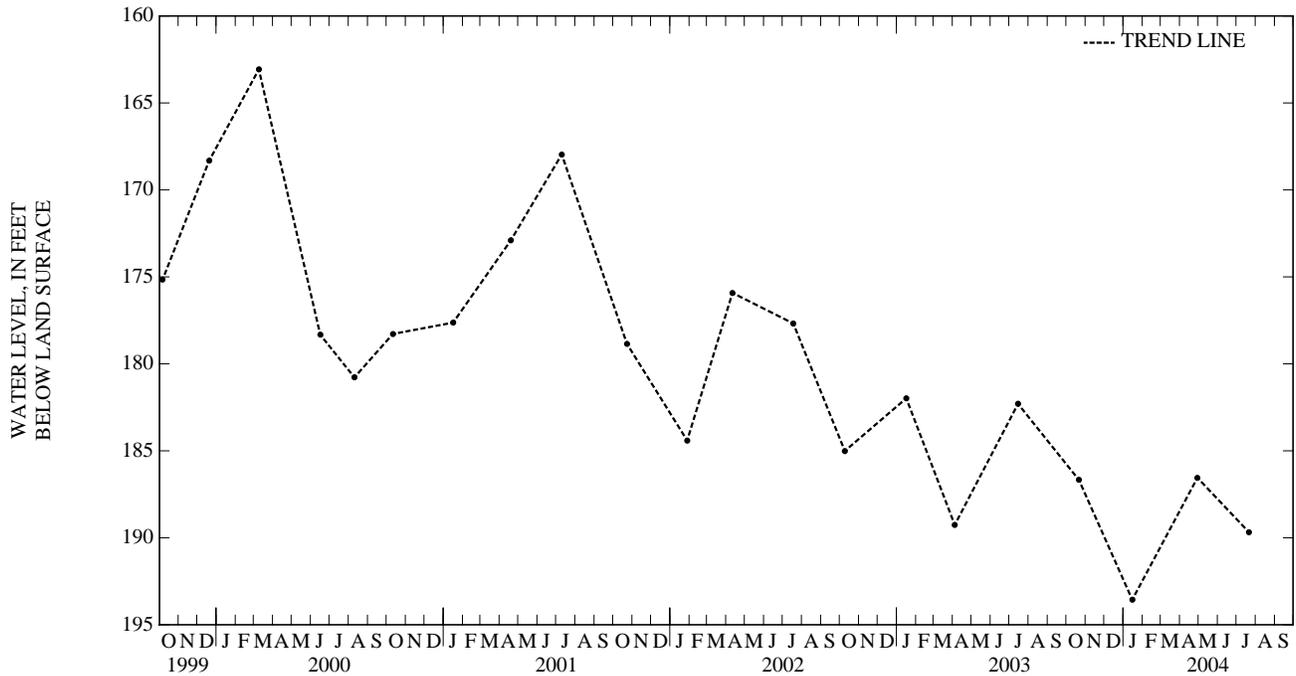
REMARKS.--Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--November 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 141.48 ft below land-surface datum, Feb. 15, 1983; lowest measured, 193.56 ft below land-surface datum, Jan. 15, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	186.67	JAN 15	193.56	APR 29	186.55	JUL 21	189.68
WATER YEAR 2004 HIGHEST 186.55		APR 29, 2004		LOWEST 193.56		JAN 15, 2004	



GROUND-WATER LEVELS
KING WILLIAM COUNTY—Continued

373459076510201. Local number, 56J 10.

LOCATION.--Lat 37°35'00", long 76°51'01", NAD83, Hydrologic Unit 02080105, 100 ft northeast of State Highway 30 at the Virginia State Police office, 4.2 mi west of the intersection of State Highways 30 and 33 in West Point. Owner: Virginia Department of State Police.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 437 ft, screened 417 to 437 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 101 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft below land-surface datum.

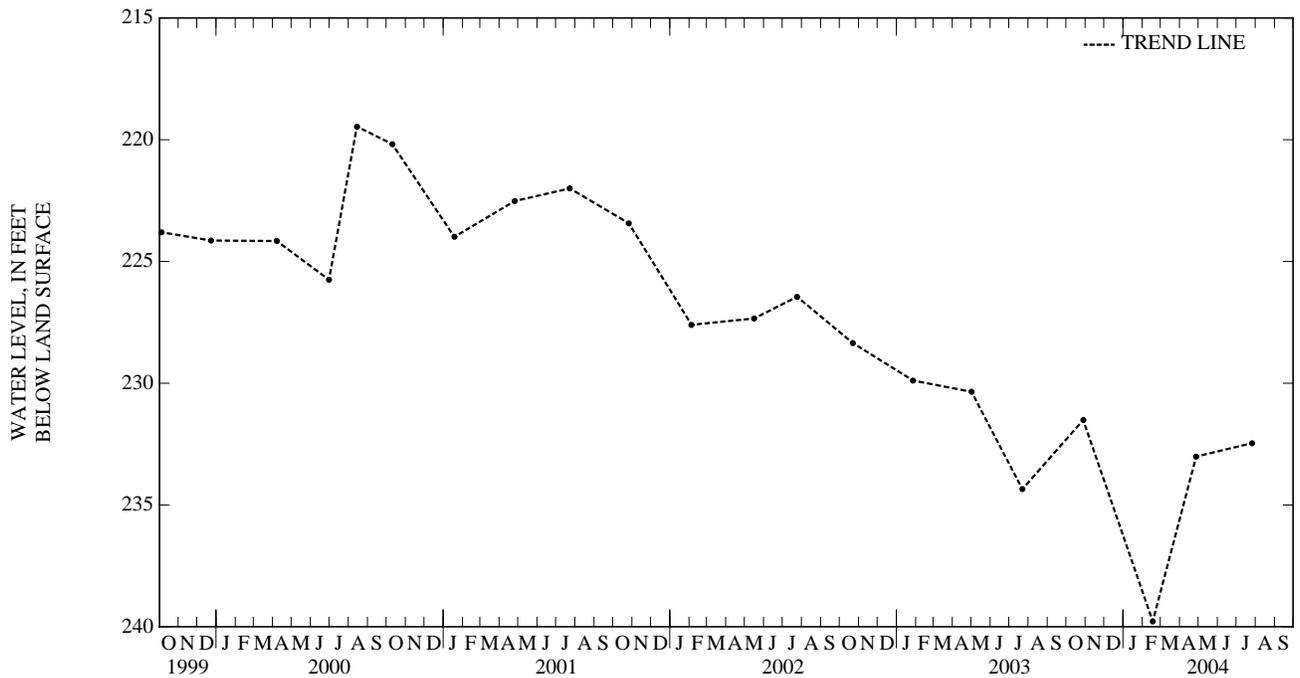
REMARKS.--Water level affected by regional drawdown. Water level of Feb. 17, 2004 result of well having been recently pumped.

PERIOD OF RECORD.--December 1972, December 1974, October 1983 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 176.00 ft below land-surface datum, Dec. 8, 1972; lowest measured, 234.35 ft below land-surface datum, July 22, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	231.51	FEB 17	239.78	APR 27	233.01	JUL 26	232.46
WATER YEAR 2004 HIGHEST 231.51 OCT 28, 2003		LOWEST 239.78 FEB 17, 2004					



LANCASTER COUNTY

374249076230101. Local number, 59K 1 SOW 015.

LOCATION.--Lat 37°42'49", long 76°23'00", NAD83, Hydrologic Unit 02080104, at Lancaster County High School in Kilmarnock. Owner: Lancaster County Public Schools.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in. to 163 ft, diameter 2 in. from 163 to 716 ft, depth 716 ft, screened 706 to 716 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 2, 1985, to July 11, 1995, bimonthly measurement with chalked tape. Sept. 30, 1976, to Oct. 1, 1985, occasional measurement with chalked tape. Prior to Sept. 30, 1976, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 85 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum prior to July 29, 1991; 0.75 ft above land-surface datum thereafter.

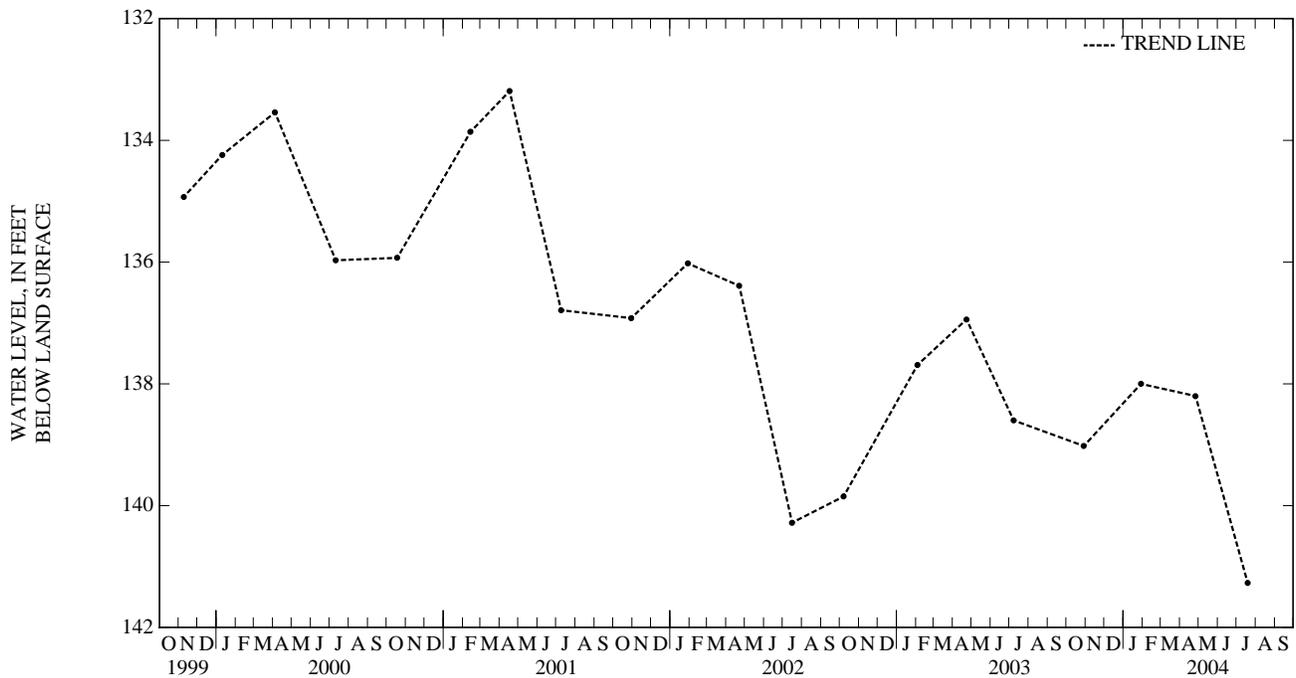
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--October 1967 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 95.89 ft below land-surface datum, Feb. 20, 1968; lowest measured, 141.27 ft below land-surface datum, July 19, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	139.02	JAN 29	138.00	APR 26	138.20	JUL 19	141.27
WATER YEAR 2004 HIGHEST		138.00	JAN 29, 2004		LOWEST		141.27
						JUL 19, 2004	



GROUND-WATER LEVELS
LANCASTER COUNTY—Continued

374142076272701. Local number, 59K 9.

LOCATION.--Lat 37°41'42", long 76°27'26", NAD83, Hydrologic Unit 02080104, on the south bank of Moran Creek, 1,000 ft northwest of the intersection of State Highway 630 and a private dirt drive, 0.8 mi west of Wesley Church, 3.0 mi north of Weems, 4.0 mi west of Kilmarnock and the intersection of State Highways 629 and 630, and near Weems. Owner: Fred Hansen.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in. to 147 ft, diameter 2 in. from 147 to 585 ft, depth 585 ft, screened 565 to 580 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

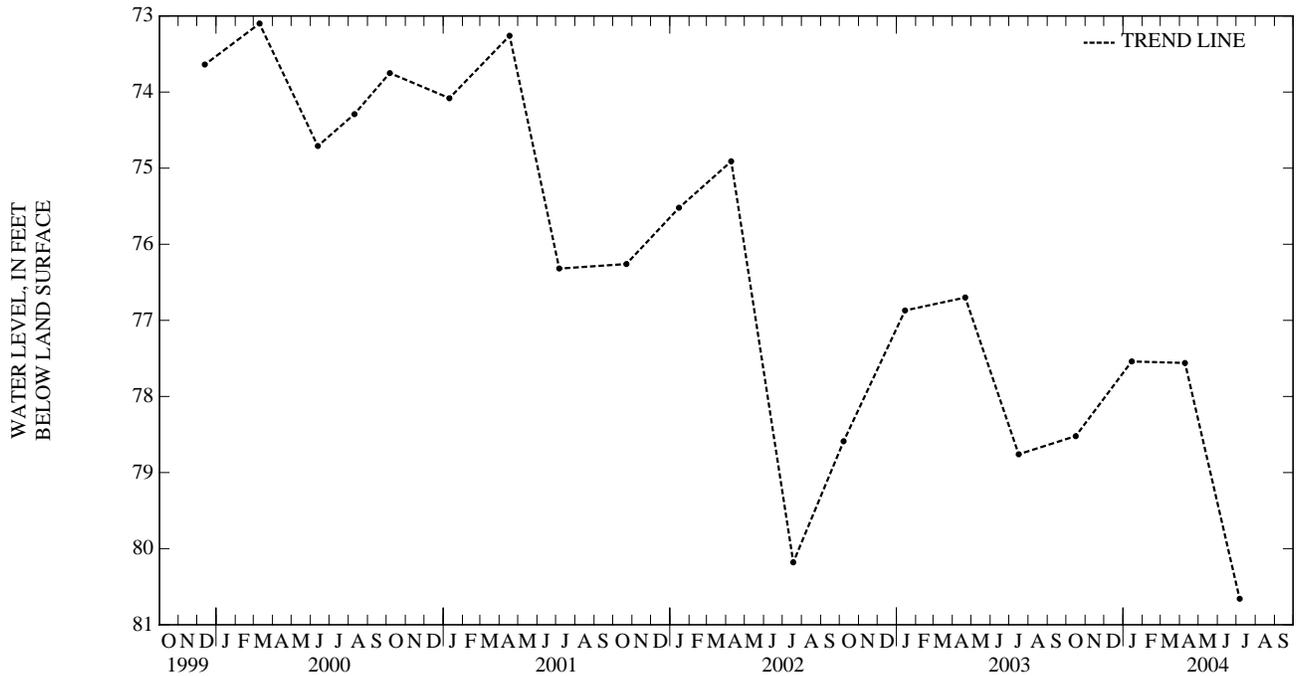
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--September 1969 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.00 ft below land-surface datum, Sept. 16, 1969; lowest measured, 80.66 ft below land-surface datum, July 6, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	78.52	JAN 14	77.54	APR 09	77.56	JUL 06	80.66
WATER YEAR 2004 HIGHEST 77.54 JAN 14, 2004		LOWEST 80.66 JUL 06, 2004					



LOUDOUN COUNTY

391542077423801. Local number, 49Y 1 SOW 022.

LOCATION.--Lat 39°15'42", long 77°42'37", NAD83, Hydrologic Unit 02070008, 4.2 mi southeast of Harpers Ferry. Owner: American Telephone and Telegraph Company.

AQUIFER.--Bedrock of Precambrian or Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6.5 in., depth 516 ft, cased to 45 ft, open hole 45 to 516 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Oct. 1, 1996 to Dec. 3, 2003, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to Oct. 1, 1996, bimonthly measurement with chalked tape. Sept. 30, 1974, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to Sept. 30, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 1,100 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--August 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 48.00 ft below land-surface datum, June 22, 1972; lowest measured, 61.97 ft below land-surface datum, Jan. 23, 2002.

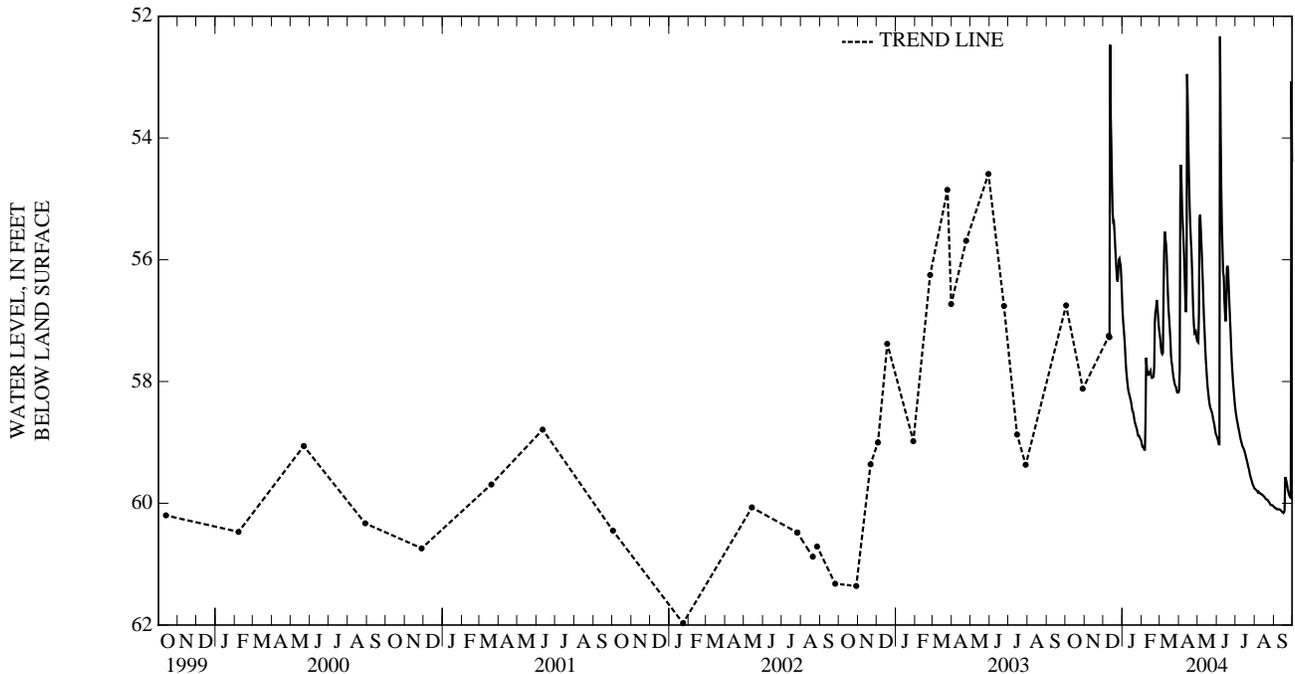
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 49.90 ft, June 5; lowest instantaneous water level, 60.16 ft, Sept. 16.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	57.46	59.12	57.55	54.78	55.26	59.03	58.73	59.80	60.09
10	---	---	---	58.13	57.84	55.65	56.24	56.62	55.83	58.98	59.84	60.10
15	---	---	54.76	58.35	57.82	56.81	53.45	57.79	57.01	59.13	59.88	60.15
20	---	---	55.75	58.63	57.92	57.68	55.67	58.36	56.45	59.33	59.94	59.60
25	---	---	56.20	58.84	56.66	58.04	57.09	58.56	57.69	59.56	60.00	59.85
EOM	---	---	56.57	58.97	57.16	58.18	57.32	58.88	58.39	59.75	60.05	54.39

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	56.75	DEC 10	57.25	FEB 09	57.72	APR 21	55.78
29	58.12	18	55.30	26	56.70	JUL 27	59.61
WATER YEAR 2004 HIGHEST 55.30 DEC 18, 2003		LOWEST 59.61 JUL 27, 2004					



390623077314201. Local number, 50W 4C.

LOCATION.--Lat 39°06'23", long 77°31'41", NAD83, Hydrologic Unit 02070008, under water tower 500 ft east of State Highway 7, 0.75 mi east of Leesburg. Owner: Town of Leesburg.

AQUIFER.--Slightly metamorphosed Balls Bluff Formation of Late Triassic age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 535 ft, cased to 6 ft, open hole 6 to 535 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 400 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

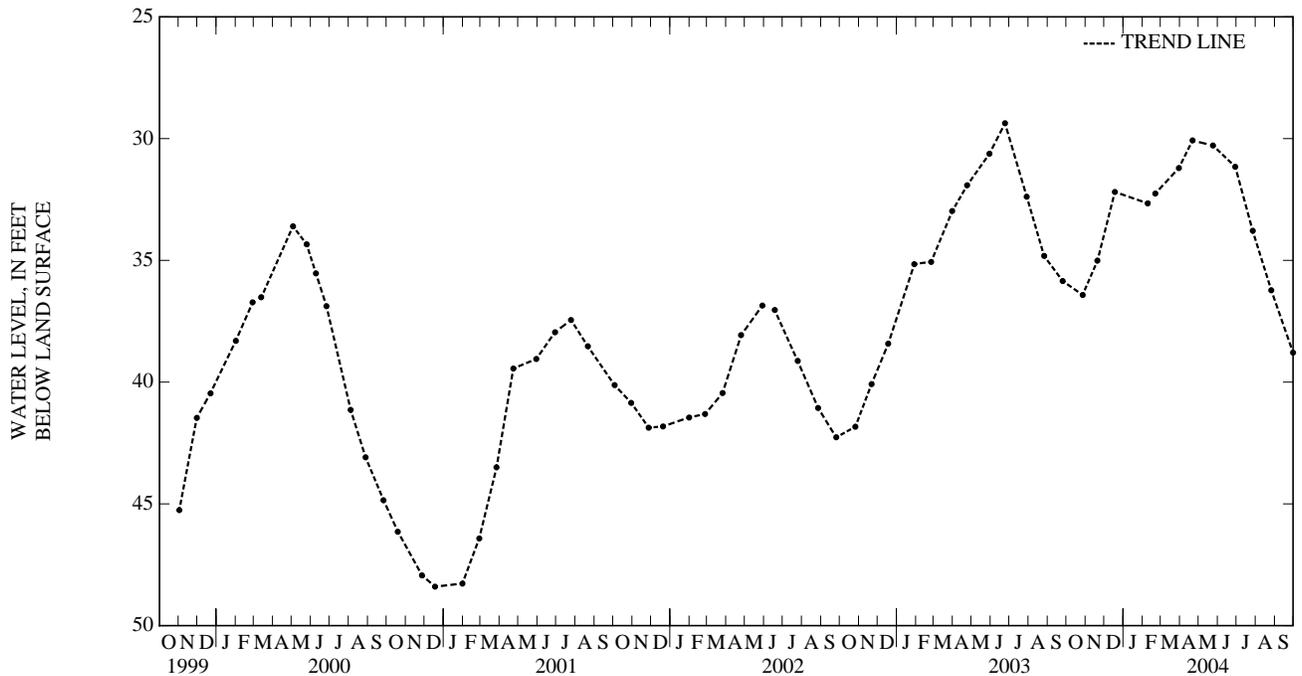
PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.13 ft below land-surface datum, Apr. 3, 1997; lowest measured, 49.06 ft below land-surface datum, Nov. 27, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL										
OCT 27	36.42	DEC 18	32.19	FEB 21	32.26	APR 21	30.08	JUN 29	31.16	AUG 26	36.23
NOV 20	35.01	FEB 09	32.66	MAR 30	31.21	MAY 24	30.28	JUL 27	33.79	SEP 30	38.79

WATER YEAR 2004 HIGHEST 30.08 APR 21, 2004 LOWEST 38.79 SEP 30, 2004



LOUISA COUNTY

380217078133701. Local number, 45N 1.

LOCATION.--Lat 38°02'17", long 78°13'42", NAD83, Hydrologic Unit 02080106, off State Highway 640 on Tyler property, 0.9 mi southeast of Thelma, and 3 mi southwest of Boswells Tavern. Owner: Tyler.

AQUIFER.--Metagraywacke, quartzose schist, and melange of Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., original depth 56 ft, length of casing 23 ft. Well was observed with borehole camera on Dec. 4, 2001 and found to be caved in up to a depth of about 40 ft below land-surface datum. Additional caving occurred during the latter part of the 2004 water year, and is currently up to a depth of about 29.5 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 500 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.95 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction.

PERIOD OF RECORD.--July 1952 to current year.

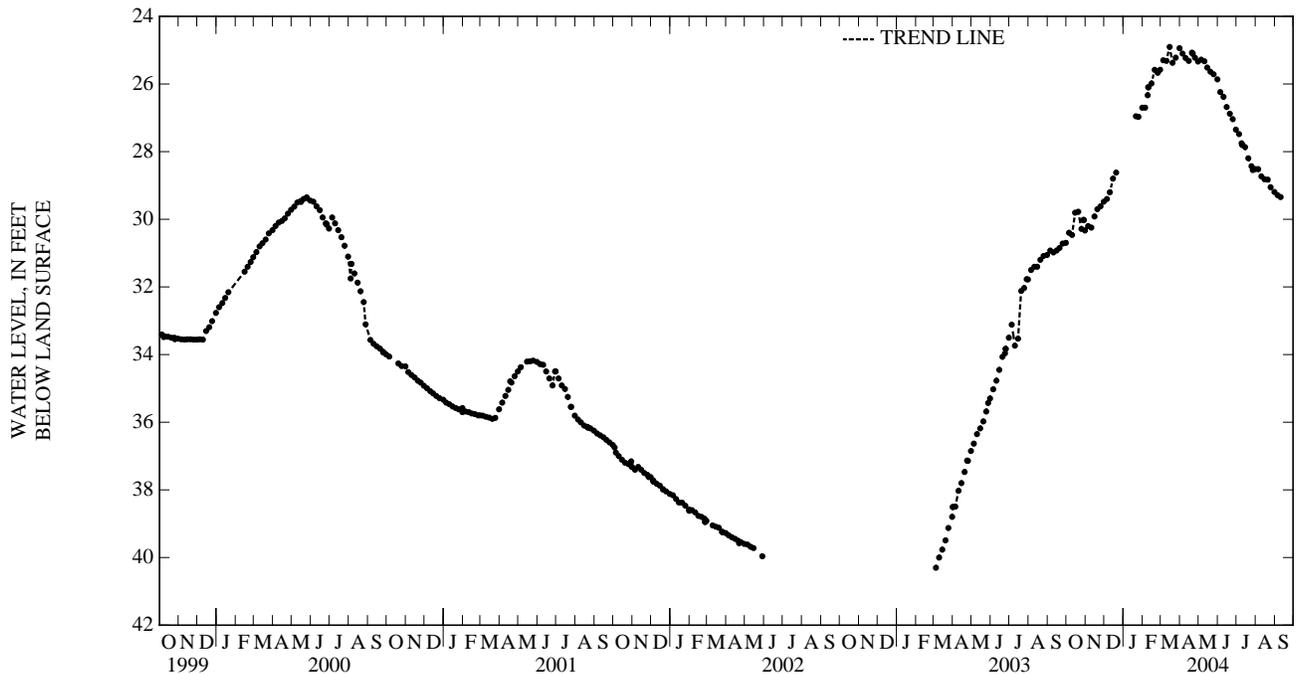
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 10.63 ft below land-surface datum, Apr. 18, 19, 1993; well dry June 2002 to March 2003; lowest measured water level, 40.30 ft below land-surface datum, Mar. 5, 2003.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 24.60 ft below land-surface datum, Mar. 21; lowest measured water level, 30.46 ft below land-surface datum, Oct. 10.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.40	30.20	29.40	---	26.70	25.30	25.10	25.28	26.24	27.48	28.52	29.29
10	30.46	30.25	29.20	---	26.10	25.32	25.23	25.33	26.38	27.80	28.73	29.34
15	29.80	29.92	28.80	---	25.98	24.90	25.32	25.51	26.68	27.87	28.82	---
20	29.78	29.70	28.62	---	25.58	25.37	25.07	25.64	26.88	28.20	28.83	---
25	30.28	29.62	---	26.97	25.67	25.22	25.22	25.71	27.04	28.43	29.05	---
EOM	30.33	29.48	---	26.70	25.58	24.94	25.34	25.86	27.35	28.52	29.19	---

WATER YEAR 2004 HIGHEST 24.90 MAR 15, 2004 LOWEST 30.46 OCT 10, 2003



GROUND-WATER LEVELS
LOUISA COUNTY—Continued

380043078111301. Local number, 45N 4.

LOCATION.--Lat 38°00'46", long 78°11'13", NAD83, Hydrologic Unit 02080106, 0.25 mi east of U.S. Highway 15, 4.1 mi south of Boswells Tavern. Owner: Virginia Department of Corrections.

AQUIFER.--Metamorphosed sedimentary and volcanic rocks of unknown age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 200 ft, cased to 42 ft, open hole 42 to 200 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

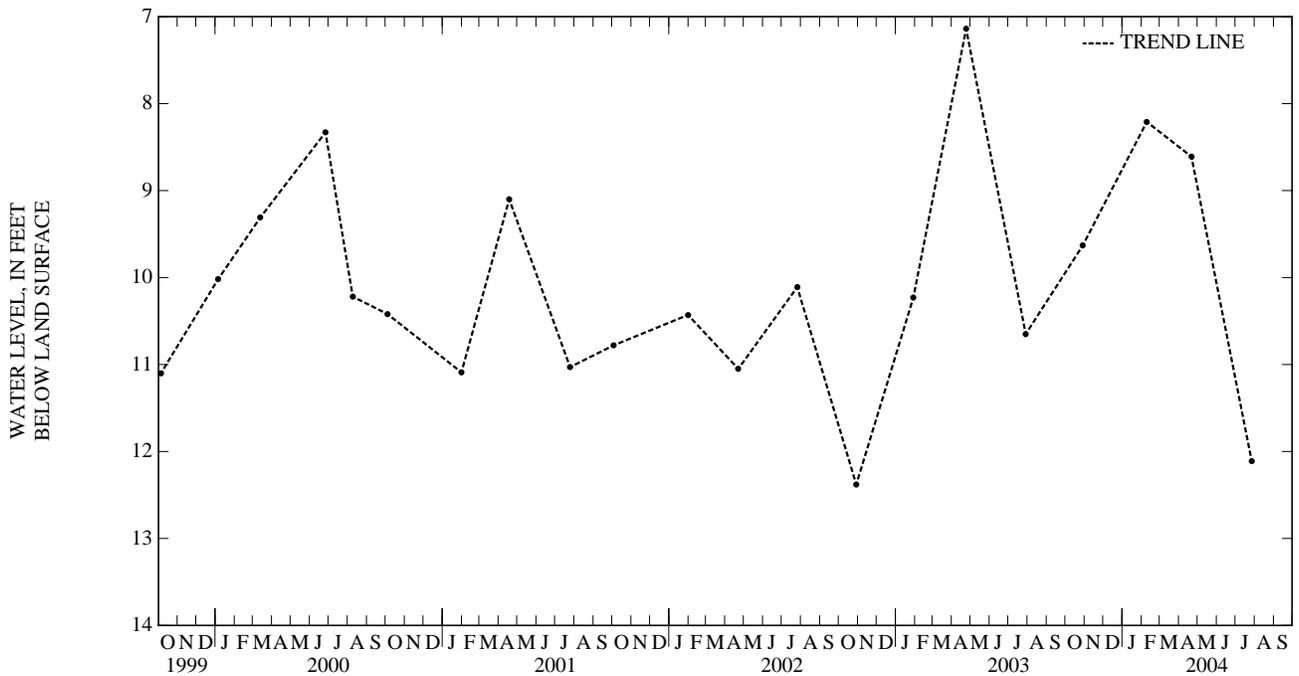
DATUM.--Elevation of land-surface datum is 415 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.3 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.14 ft below land-surface datum, Apr. 24, 2003; lowest measured, 14.43 ft below land-surface datum, Aug. 26, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	9.63	FEB 09	8.21	APR 21	8.61	JUL 27	12.11
WATER YEAR 2004 HIGHEST		8.21 FEB 09, 2004		LOWEST		12.11 JUL 27, 2004	



LOUISA COUNTY—Continued

380131078001001. Local number, 46N 1 SOW 056.

LOCATION.--Lat 38°01'32", long 78°00'09", NAD83, Hydrologic Unit 02080106, 200 ft northeast of intersection of U.S. Highway 33 and State Highway 208 in Louisa. Owner: Town of Louisa.

AQUIFER.--Metamorphosed sedimentary and volcanic rocks of unknown age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 132 ft, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 4, 1985, to Sept. 30, 1993, bimonthly measurement with chalked tape. Mar. 31, 1979, to Oct. 4, 1985, occasional measurement with chalked tape. Prior to Mar. 31, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 455 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

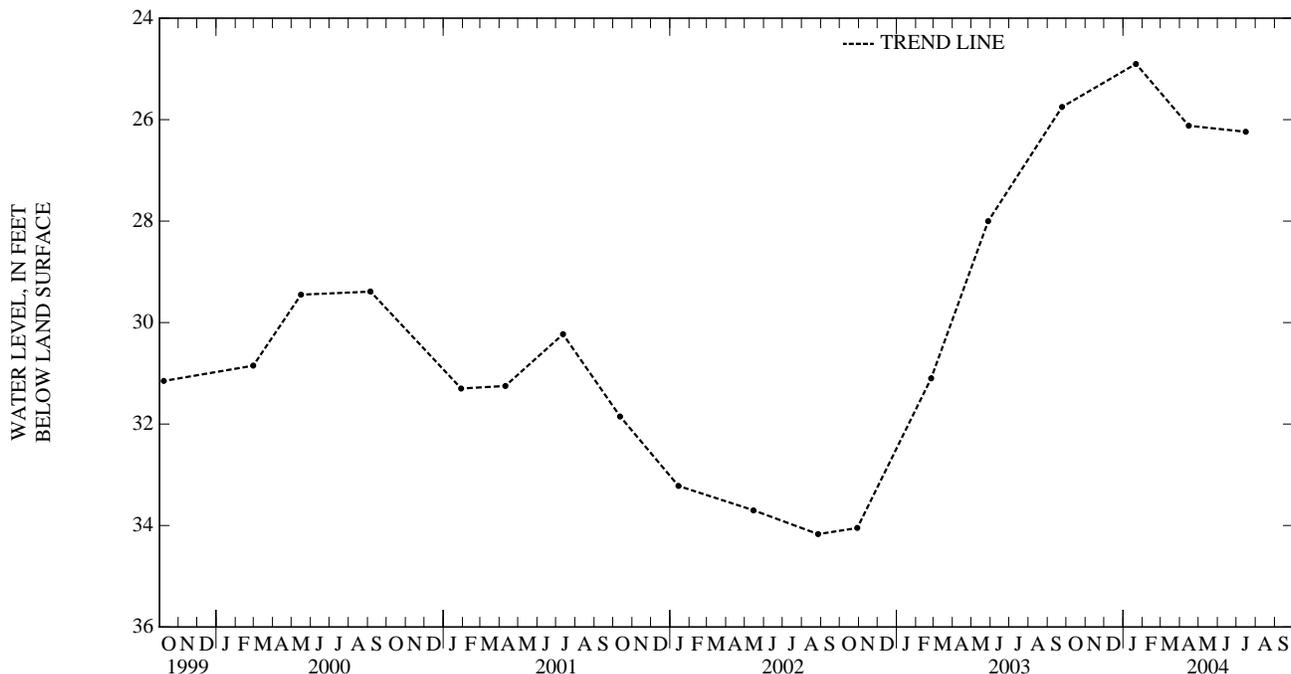
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 24.65 ft below land-surface datum, May 21, 1998; lowest measured, 34.78 ft below land-surface datum, Dec. 8, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 21	24.90	APR 15	26.12	JUL 16	26.24
WATER YEAR 2004 HIGHEST 24.90 JAN 21, 2004 LOWEST 26.24 JUL 16, 2004					



GROUND-WATER LEVELS

MATHEWS COUNTY

372545076240101. Local number, 59H 1.

LOCATION.--Lat 37°25'45", long 76°24'00", NAD83, Hydrologic Unit 02080102, 0.5 mi south of the intersection of State Highway 617 and private dirt road at the shore line of Greenmansion Cove at North and 0.7 mi southeast of the intersection of State Highways 14 and 617. Owner: G. T. Abernathy.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled flowing water well, diameter 4 in., depth 568 ft, depth of screen unknown.

INSTRUMENTATION.--Occasional measurement with manometer or chalked tape by USGS personnel.

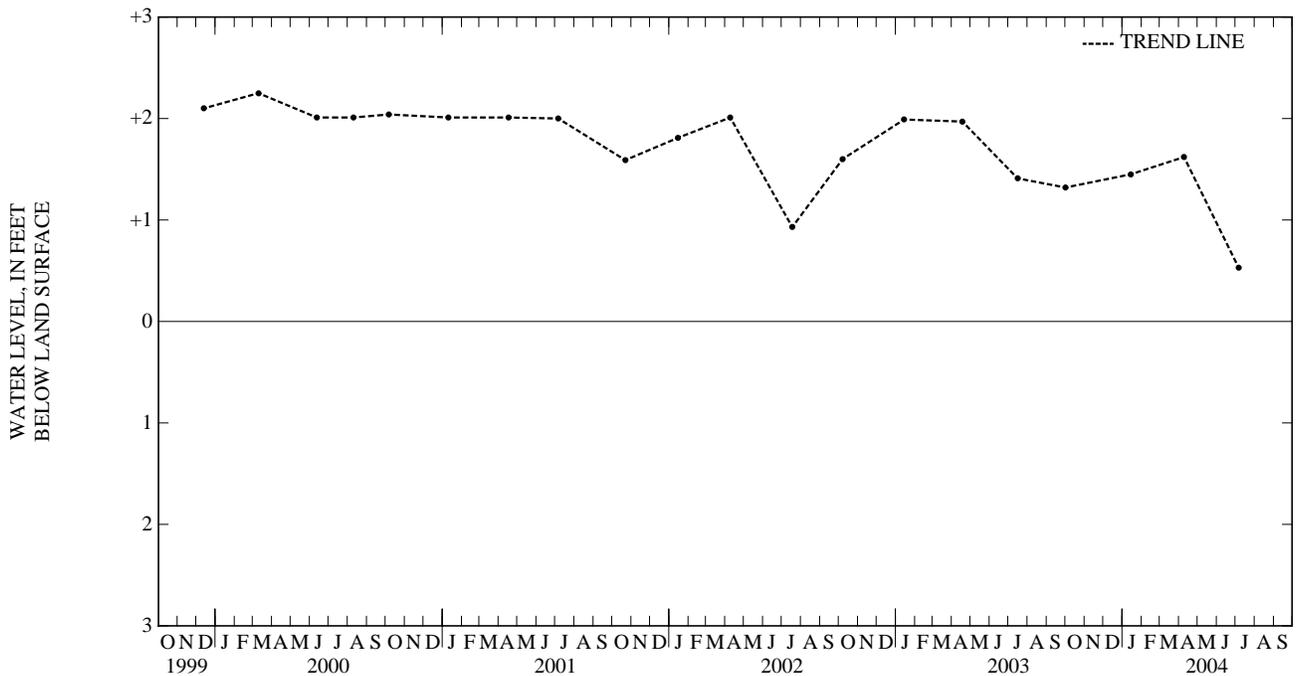
DATUM.--Elevation of land-surface datum is 5 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1950 to December 1995, September 1997 to current year. Unpublished records available prior to October 1988 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.70 ft above land-surface datum, Feb. 12, 1980; lowest measured, 0.53 ft above land-surface datum, July 6, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+"), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	+1.32	JAN 14	+1.45	APR 09	+1.62	JUL 06	+0.53
WATER YEAR 2004 HIGHEST		+1.62	APR 09, 2004 LOWEST		+0.53	JUL 06, 2004	



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GROUND-WATER LEVELS

MATHEWS COUNTY—Continued

372641076235301. Local number, 59H 4 SOW 193A.

LOCATION.--Lat 37°26'40.71", long 76°23'53.16", NAD83, Hydrologic Unit 02080102, 0.45 mi. east of the intersection of State Highways 14 and 617 and 140 ft southeast of State Highway 14 at the North Park and Ride. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,917.5 ft, cased to 1,917.5 ft, open-ended pipe.

INSTRUMENTATION.--Digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 16.68 ft above NGVD of 1929. Measuring point: Top of casing, 2.47 ft above land-surface datum prior to June 6, 2002; top of recorder shelf, 2.55 ft thereafter.

PERIOD OF RECORD.--July 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.74 ft below land-surface datum, Aug. 9, 2001; lowest measured, 83.88 ft below land-surface datum, June 6, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 78.42 ft below land-surface datum, Oct. 1, 2; lowest instantaneous water level, 79.62 ft below land-surface datum, Sept. 27-30.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUL 10	54.24	AUG 09	53.74	AUG 13	55.37
WATER YEAR 2001 HIGHEST		53.74	AUG 09, 2001	LOWEST 55.37	
				AUG 13, 2001	

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	58.85	DEC 03	57.50	JUN 06	83.88	AUG 01	79.43
NOV 08	58.46	JAN 30	56.02	17	80.77	SEP 04	78.78
WATER YEAR 2002 HIGHEST		56.02	JAN 30, 2002	LOWEST 83.88		JUN 06, 2002	

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	79.54	78.94
10	---	---	---	---	---	---	---	---	---	---	79.47	78.91
15	---	---	---	---	---	---	---	---	---	---	79.38	78.83
20	---	---	---	---	---	---	---	---	---	---	79.27	78.84
25	---	---	---	---	---	---	---	---	---	---	79.25	78.73
EOM	---	---	---	---	---	---	---	---	---	---	79.25	78.69

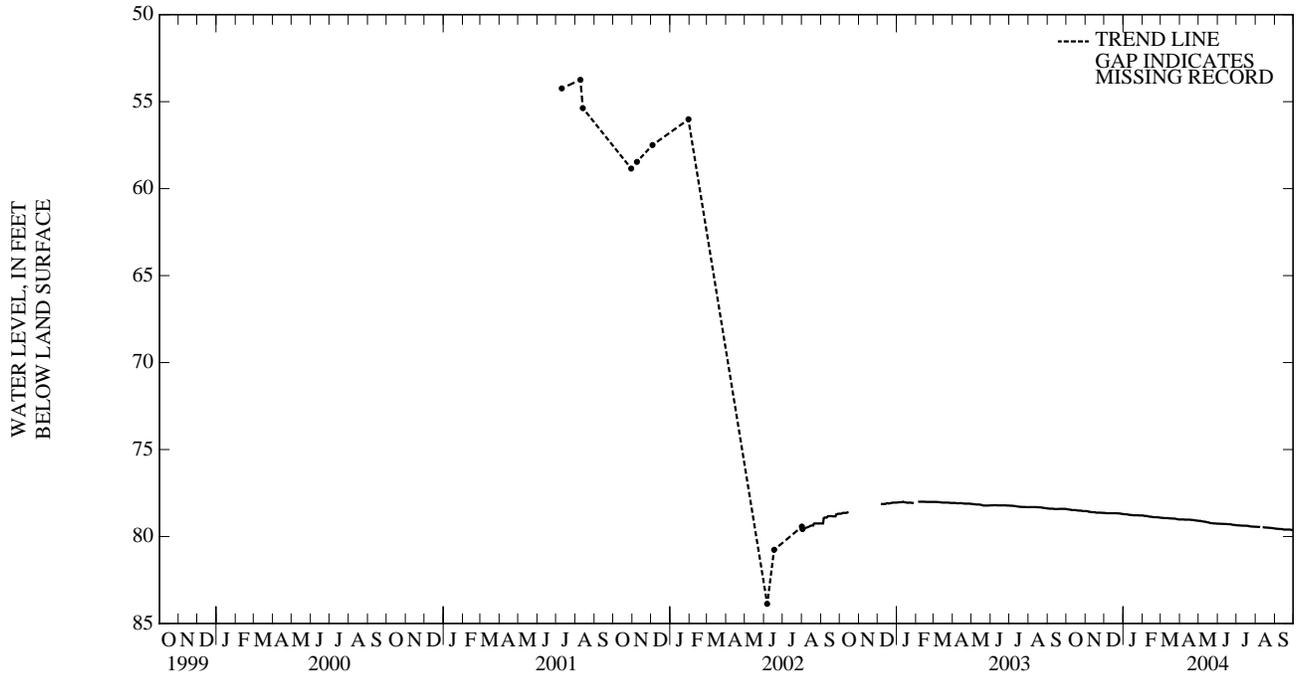
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	78.66	---	---	78.03	78.00	78.01	78.07	78.14	78.20	78.23	78.31	78.40
10	78.64	---	78.13	78.01	78.00	78.02	78.09	78.16	78.20	78.25	78.31	78.41
15	78.59	---	78.10	78.04	78.00	78.05	78.09	78.17	78.21	78.28	78.32	78.42
20	---	---	78.10	78.06	78.01	78.05	78.11	78.22	78.21	78.30	78.33	78.41
25	---	---	78.06	78.07	78.01	78.05	78.11	78.22	78.21	78.30	78.35	78.41
EOM	---	---	78.05	---	78.01	78.07	78.12	78.21	78.22	78.31	78.38	78.42

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	78.45	78.55	78.66	78.72	78.82	78.93	79.02	79.12	79.27	79.36	79.45	79.56
10	78.48	78.60	78.66	78.75	78.85	78.94	79.03	79.14	79.28	79.37	---	79.57
15	78.48	78.60	78.66	78.77	78.87	78.96	79.03	79.18	79.28	79.38	79.48	79.60
20	78.51	78.63	78.66	78.78	78.89	78.97	79.05	79.23	79.29	79.39	79.49	79.60
25	78.52	78.63	78.67	78.78	78.90	78.98	79.07	79.25	79.33	79.43	79.51	79.60
EOM	78.54	78.64	78.71	78.79	78.92	79.02	79.09	79.26	79.35	79.44	79.54	79.62

MATHEWS COUNTY—Continued



GROUND-WATER LEVELS

MATHEWS COUNTY—Continued

372641076235303. Local number, 59H 6 SOW 193C.

LOCATION.--Lat 37°26'40.86", long 76°23'52.64", NAD83, Hydrologic Unit 02080102, 0.45 mi. east of the intersection of State Highways 14 and 617 and 140 ft southeast of State Highway 14 at the North Park and Ride. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chesapeake Bay Impact Crater of Eocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. 0 to 730 ft, diameter 2 in. 680.52 to 777 ft, depth 777 ft, screened 737 to 777 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 1, 2003, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 16.62 ft above NGVD of 1929. Measuring point: Top of casing, 2.37 ft above land-surface datum prior to November 8, 2001; top of recorder shelf, 2.45 ft thereafter.

PERIOD OF RECORD.--June 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.88 ft below land-surface datum, July 10, 2001; lowest measured, 62.08 ft below land-surface datum, Aug. 11, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUL 10	58.88	AUG 09	59.03	AUG 13	59.30
WATER YEAR 2001 HIGHEST 58.88 JUL 10, 2001 LOWEST 59.30 AUG 13, 2001					

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	59.31	59.25	59.26	59.30	59.25	59.34	59.53	59.84	59.99	60.05
10	---	59.19	59.31	59.12	59.24	59.30	59.31	59.26	59.57	59.88	60.08	60.02
15	---	59.21	59.32	59.17	59.23	59.24	59.23	59.33	59.53	59.87	60.13	60.18
20	---	59.17	59.20	59.15	59.20	59.24	59.24	59.38	59.78	59.88	60.12	60.10
25	---	59.22	59.21	59.19	59.28	59.27	59.28	59.42	59.75	59.91	60.08	60.19
EOM	---	59.21	59.28	59.19	59.27	59.22	59.23	59.39	59.82	59.87	60.14	60.21

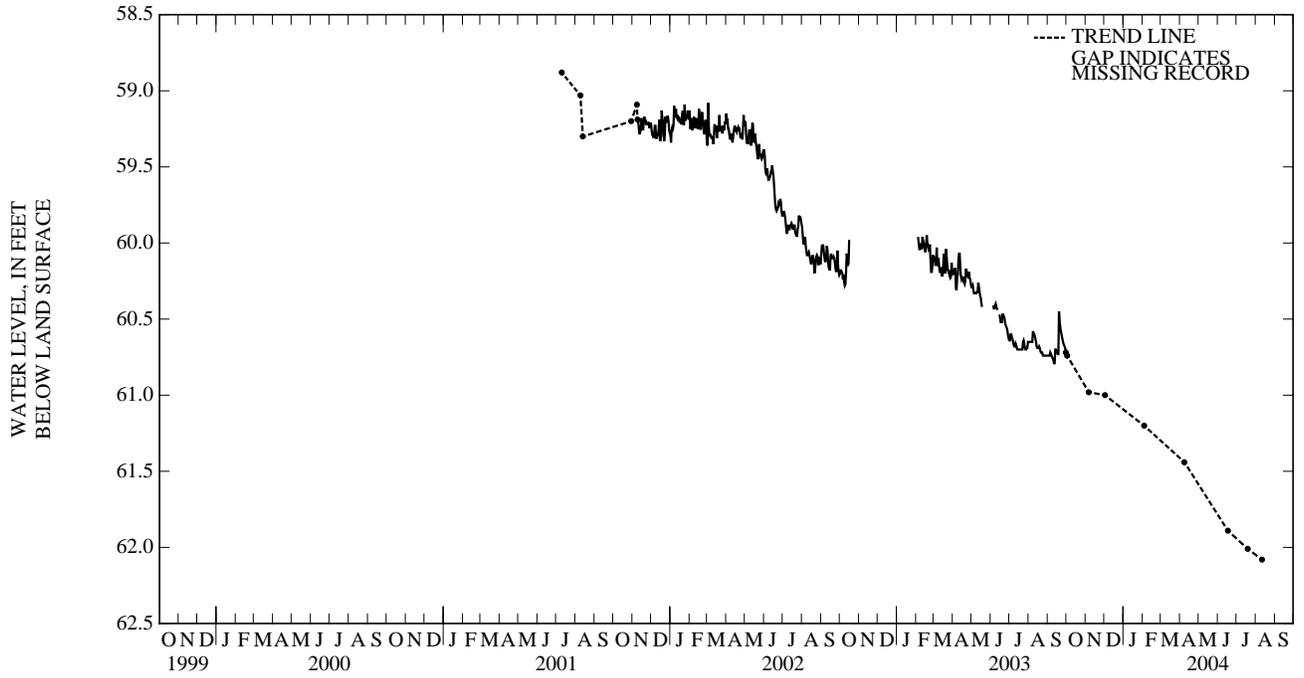
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.20	---	---	---	60.00	60.11	60.17	60.33	60.41	60.62	60.65	60.72
10	60.27	---	---	---	60.04	60.16	60.11	60.32	60.42	60.68	60.60	60.77
15	60.13	---	---	---	60.05	60.22	60.24	60.35	60.47	60.70	60.69	60.71
20	---	---	---	---	60.02	60.20	60.27	---	60.47	60.70	60.71	60.51
25	---	---	---	---	60.19	60.19	60.22	---	60.54	60.66	60.74	60.64
EOM	---	---	---	---	60.08	60.18	60.27	---	60.63	60.65	60.74	60.72

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	60.74	DEC 02	61.00	APR 08	61.44	JUL 19	62.01
NOV 06	60.98	FEB 03	61.20	JUN 17	61.89	AUG 11	62.08
WATER YEAR 2004 HIGHEST 60.74 OCT 02, 2003 LOWEST 62.08 AUG 11, 2004							

MATHEWS COUNTY—Continued



GROUND-WATER LEVELS

MATHEWS COUNTY—Continued

372641076235304. Local number, 59H 7 SOW 193D.

LOCATION.--Lat 37°26'41.02", long 76°23'52.30", NAD83, Hydrologic Unit 02080102, 0.45 mi. east of the intersection of State Highways 14 and 617 and 140 ft southeast of State Highway 14 at the North Park and Ride. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. 0 to 80 ft, diameter 2 in. 76.22 to 117.52 ft, depth 117.52 ft, screened 87.52 to 117.52 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 8, 2001 to Jan. 29, 2003, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 16.43 ft above NGVD of 1929. Measuring point: Top of casing, 2.45 ft above land-surface datum prior to November 8, 2001; November 8, 2001 to February 4, 2003, top of recorder shelf, 2.53 ft; top of casing, 2.45 ft thereafter.

PERIOD OF RECORD.--April 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.47 ft below land-surface datum, Oct. 2, 2003; lowest recorded, 13.74 ft below land-surface datum, Aug. 30, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 26	11.84	JUL 10	10.35	AUG 09	11.25	AUG 13	11.43
WATER YEAR 2001 HIGHEST		10.35 JUL 10, 2001	LOWEST		11.84 APR 26, 2001		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	12.33	12.15	11.30	10.94	10.44	10.19	10.99	12.82	13.12	13.40
10	---	11.92	12.35	12.04	11.19	10.95	10.42	10.13	11.20	13.11	13.36	13.30
15	---	12.03	12.27	11.96	11.08	10.86	10.32	10.20	11.55	12.99	13.58	13.39
20	---	12.14	12.17	11.78	10.98	10.76	10.34	10.22	11.76	12.98	13.64	13.25
25	---	12.16	12.14	11.64	10.96	10.70	10.32	10.30	12.08	13.01	13.68	13.29
EOM	---	12.15	12.15	11.46	10.93	10.58	10.21	10.48	12.40	12.92	13.72	13.23

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.27	12.25	11.06	10.29	---	---	---	---	---	---	---	---
10	13.33	11.98	11.02	10.18	---	---	---	---	---	---	---	---
15	13.07	11.74	10.74	10.25	---	---	---	---	---	---	---	---
20	12.84	11.45	10.61	10.23	---	---	---	---	---	---	---	---
25	12.75	11.21	10.44	10.37	---	---	---	---	---	---	---	---
EOM	12.37	11.02	10.43	---	---	---	---	---	---	---	---	---

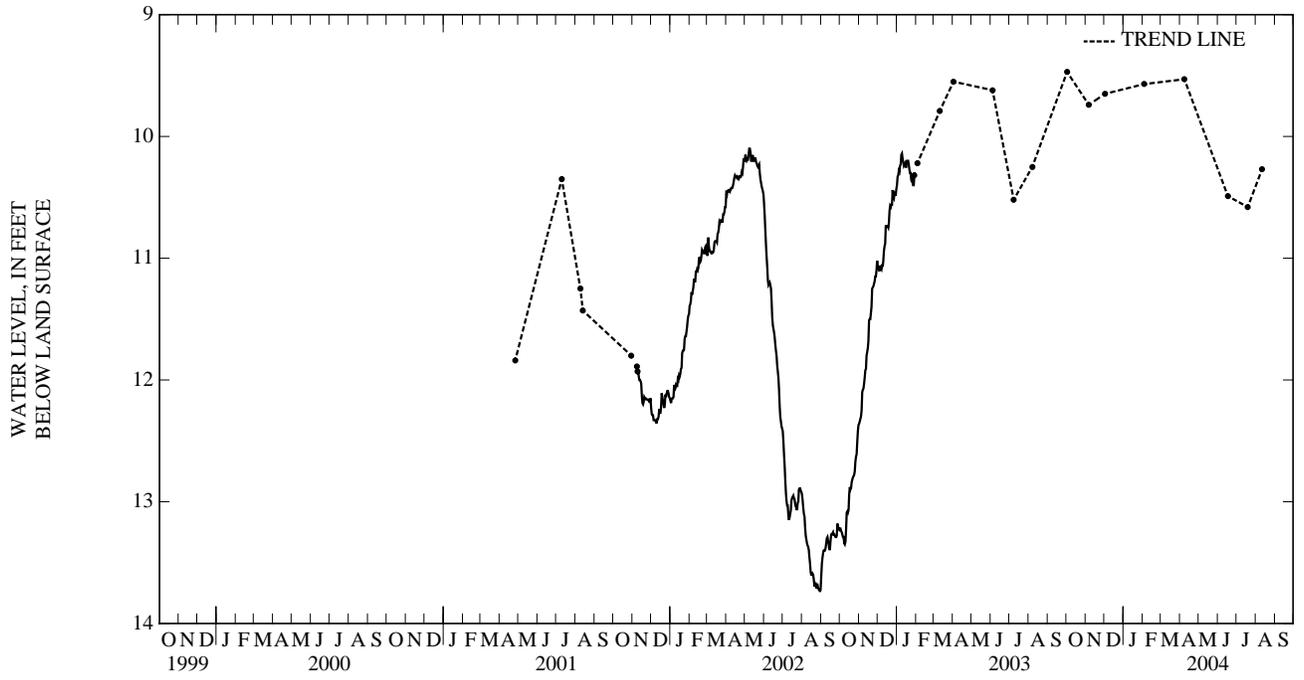
WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	13.25	JAN 29	10.32	MAR 11	9.79	JUN 04	9.62	AUG 07	10.25
DEC 05	10.87	FEB 03	10.22	APR 02	9.55	JUL 08	10.52		
WATER YEAR 2003 HIGHEST		9.55 APR 02, 2003	LOWEST		13.25 OCT 07, 2002				

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	9.47	DEC 02	9.65	APR 08	9.53	JUL 19	10.58
NOV 06	9.74	FEB 03	9.57	JUN 17	10.49	AUG 11	10.27
WATER YEAR 2004 HIGHEST		9.47 OCT 02, 2003	LOWEST		10.58 JUL 19, 2004		

MATHEWS COUNTY—Continued



GROUND-WATER LEVELS
MATHEWS COUNTY—Continued

372641076235305. Local number, 59H 8 SOW 193E.

LOCATION.--Lat 37°26'41.03", long 76°23'52.45", NAD83, Hydrologic Unit 02080102, 0.45 mi. east of the intersection of State Highways 14 and 617 and 140 ft southeast of State Highway 14 at the North Park and Ride. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 28.34 ft, screened 8.34 to 28.34 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Nov. 8, 2001 to Jan. 29, 2003, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 16.40 ft above NGVD of 1929. Measuring point: Top of casing, 2.33 ft above land-surface datum prior to November 8, 2001; November 8, 2001 to February 4, 2003, top of recorder shelf, 2.41 ft; top of casing, 2.33 ft thereafter.

PERIOD OF RECORD.--June 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.67 ft below land-surface datum, Feb. 3 and Aug. 7, 2003; lowest recorded, 7.36 ft below land-surface datum, Aug. 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 20	5.34	JUL 10	3.94	AUG 09	4.40	AUG 13	4.40
WATER YEAR 2001 HIGHEST		3.94 JUL 10, 2001		LOWEST		5.34 JUN 20, 2001	

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	6.82	6.66	4.82	4.31	2.77	3.05	4.97	6.06	6.84	6.74
10	---	6.50	6.86	5.86	4.39	4.31	3.07	2.63	5.26	6.32	7.03	6.87
15	---	6.59	6.80	5.58	4.37	4.29	3.14	3.04	5.57	6.49	7.17	6.99
20	---	6.67	6.66	5.42	4.48	3.66	3.57	3.58	5.66	6.63	7.28	6.79
25	---	6.73	6.63	4.85	4.62	3.54	2.98	4.06	5.76	6.70	7.31	6.91
EOM	---	6.77	6.66	4.73	4.69	3.52	2.72	4.55	5.88	6.63	7.23	6.93

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.04	4.24	3.16	2.06	---	---	---	---	---	---	---	---
10	7.11	3.66	2.25	2.23	---	---	---	---	---	---	---	---
15	6.09	3.09	1.94	2.51	---	---	---	---	---	---	---	---
20	5.79	2.57	2.19	2.40	---	---	---	---	---	---	---	---
25	5.74	2.48	1.80	2.45	---	---	---	---	---	---	---	---
EOM	4.02	2.77	2.15	---	---	---	---	---	---	---	---	---

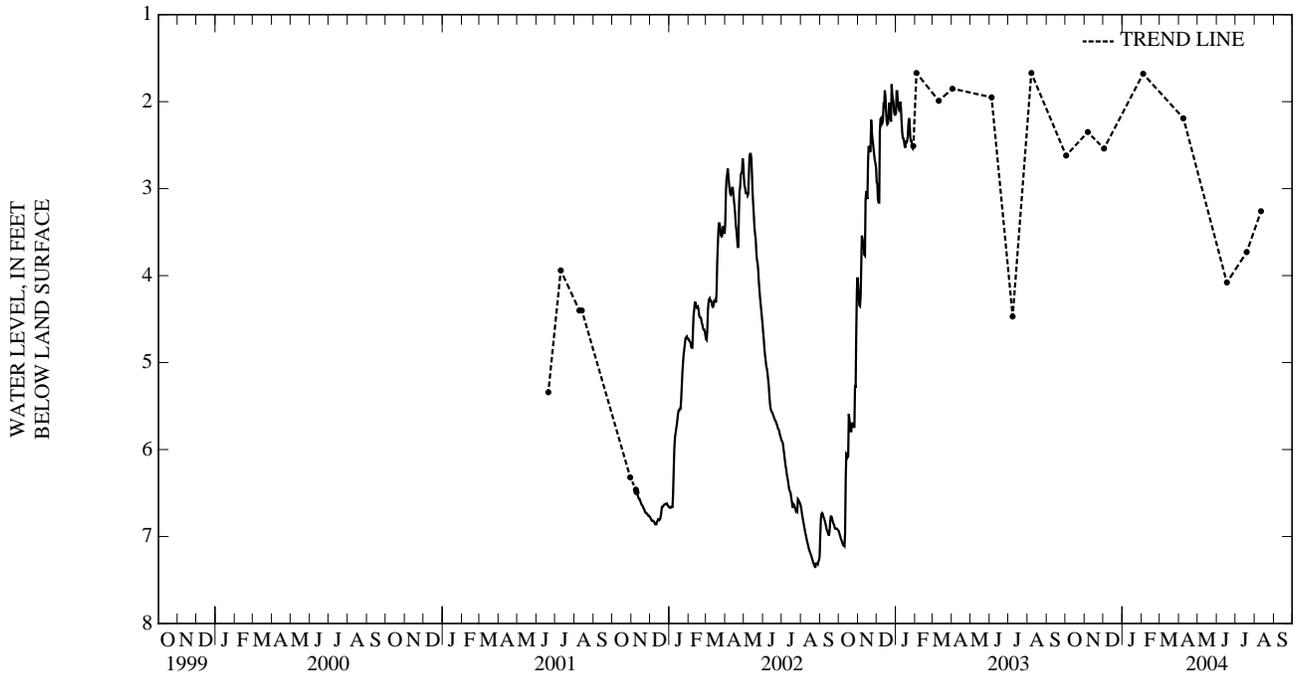
WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	7.11	JAN 29	2.51	MAR 11	1.99	JUN 04	1.95	AUG 07	1.67
DEC 05	2.30	FEB 03	1.67	APR 02	1.85	JUL 08	4.47		
WATER YEAR 2003 HIGHEST		1.67 FEB 03, 2003		AUG 07, 2003		LOWEST		7.11 OCT 07, 2002	

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	2.62	DEC 02	2.54	APR 08	2.19	JUL 19	3.73
NOV 06	2.35	FEB 03	1.68	JUN 17	4.08	AUG 11	3.26
WATER YEAR 2004 HIGHEST		1.68 FEB 03, 2004		LOWEST		4.08 JUN 17, 2004	

MATHEWS COUNTY—Continued



GROUND-WATER LEVELS

MIDDLESEX COUNTY

373630076312601. Local number, 58J 5.

LOCATION.--Lat 37°36'31", long 76°31'25", NAD83, Hydrologic unit 02080104, 1100 ft west of State Highway 619, 3 mi north of State Highway 33. Owner: Robert Bunch.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 14 in., 0 to 400 ft, 8 in., 400 to 730 ft, depth 730 ft, screened 507 to 522 ft, 527 to 542 ft, 550 to 560 ft, 578 to 588 ft, 650 to 660 ft, 669 to 679 ft, 688 to 703 ft, 710 to 730 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface datum is 40 ft above NGVD of 1929, from topographic map. Measuring point: Bottom of pump motor mount flange, 1.17 ft above land surface datum.

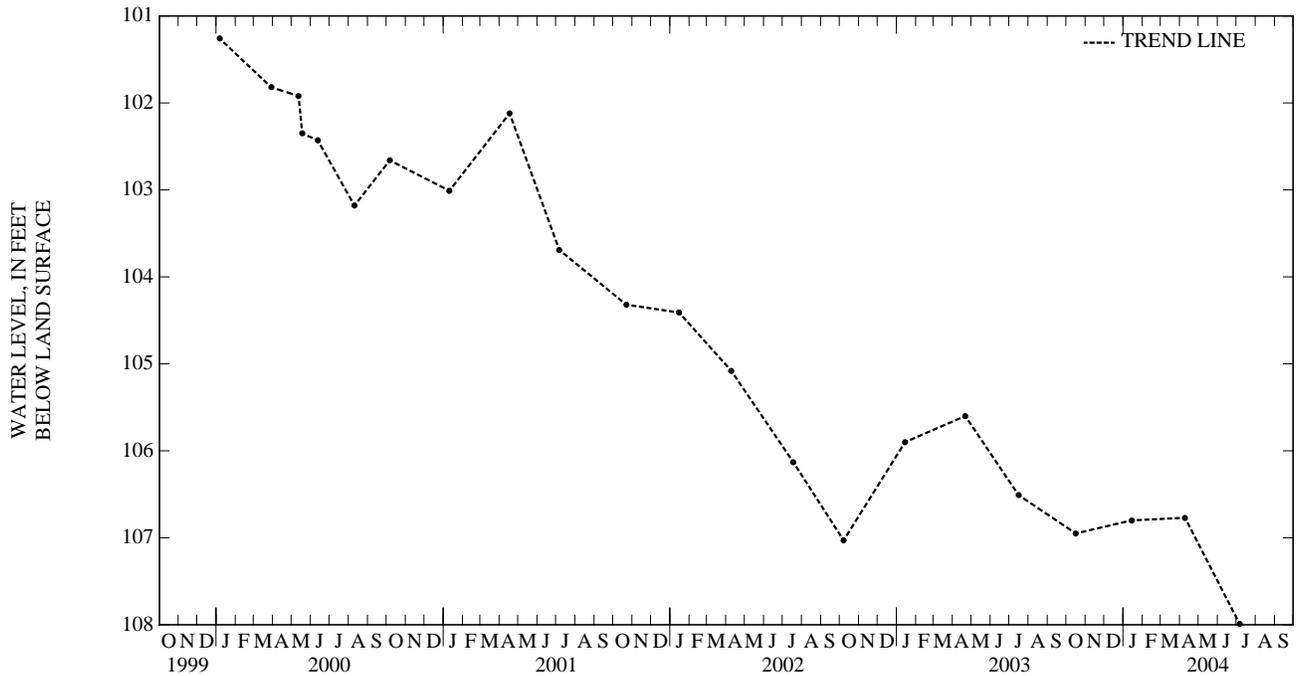
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1974, January 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 85.54 ft below land-surface datum, June 3, 1974; lowest measured, 107.99 ft below land-surface datum, July 6, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	106.95	JAN 14	106.80	APR 09	106.77	JUL 06	107.99
WATER YEAR 2004 HIGHEST 106.77		APR 09, 2004		LOWEST 107.99		JUL 06, 2004	



MIDDLESEX COUNTY—Continued

373149076251501. Local number, 59J 16.

LOCATION.--Lat 37°31'45", long 76°25'15", NAD83, Hydrologic unit 02080102, 20 ft southwest of 59J 25, 165 ft east of State Highway 3, 350 ft north of Coves of Wilton Creek entrance road, 1.25 mi north of Piankatank River. Owner: CWWD Development Co. LLC.

AQUIFER.--Yorktown-Eastover aquifer of Miocene - Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 100 ft, casing 0 to 80 ft, 90 to 100 ft, screened 80 to 90 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

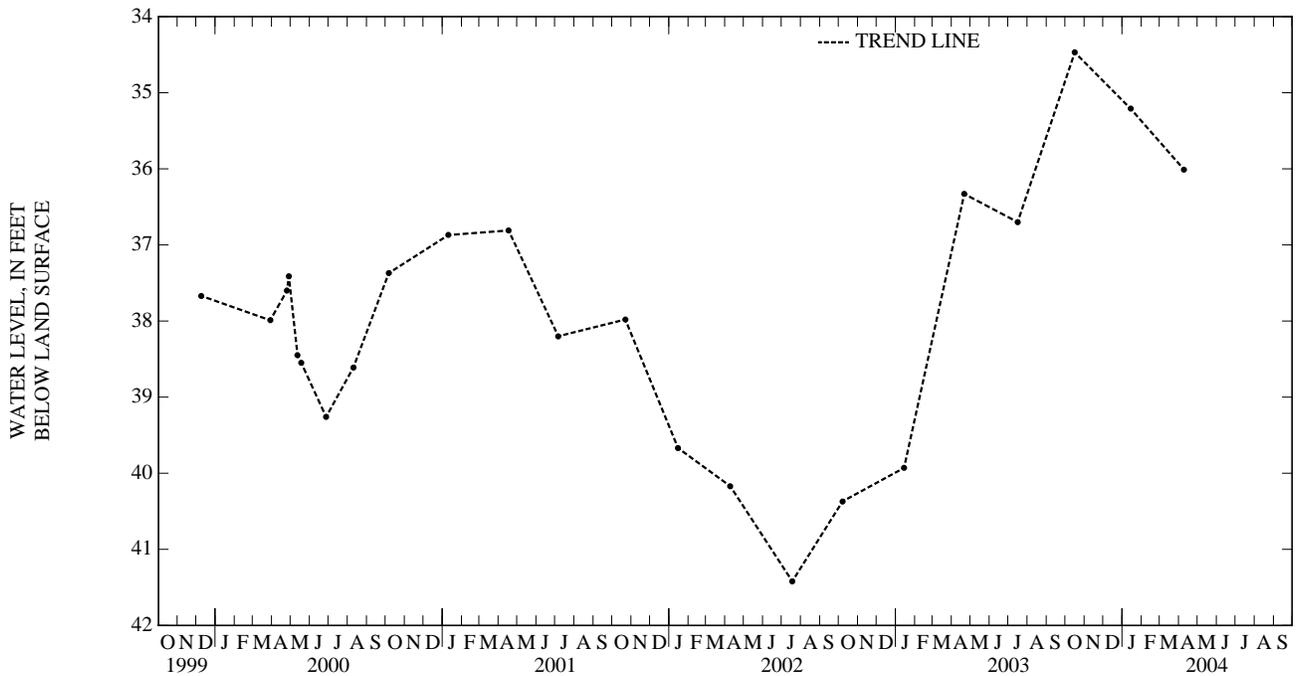
DATUM.--Elevation of land surface datum is 40 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.05 ft above land surface datum prior to July 18, 2002; 0.75 ft thereafter.

PERIOD OF RECORD.--December 1999 to April 2004 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.47 ft below land-surface datum, Oct. 16, 2003; lowest measured, 41.42 ft below land-surface datum, July 18, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	34.47	JAN 14	35.21	APR 09	36.01
WATER YEAR 2004 HIGHEST 34.47		OCT 16, 2003		LOWEST 36.01 APR 09, 2004	



GROUND-WATER LEVELS
MIDDLESEX COUNTY—Continued

373145076251601. Local number, 59J 25.

LOCATION.--Lat 37°31'45", long 76°25'15", NAD83, Hydrologic unit 02080102, 20 ft northeast of 59J 16, 165 ft east of State Highway 3, 350 ft north of Coves of Wilton Creek entrance road, 1.25 mi north of Piankatank River. Owner: CWWD Development Co. LLC.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 43 ft, casing depth unknown, screened depth unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

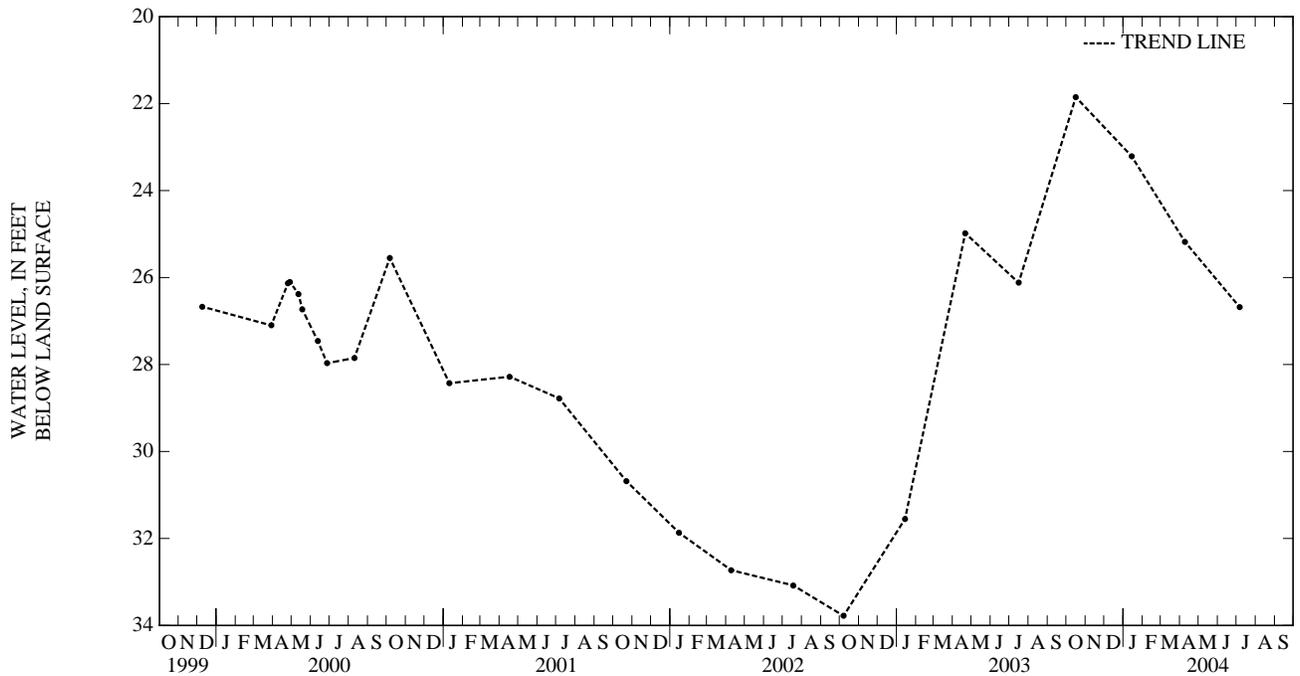
DATUM.--Elevation of land surface datum is 40 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.87 ft above-land surface datum.

PERIOD OF RECORD.--September 1999 to July 2004 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.85 ft below land-surface datum, Oct. 16, 2003; lowest measured, 33.78 ft below land-surface datum Oct. 7, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	21.85	JAN 14	23.21	APR 09	25.18	JUL 06	26.68
WATER YEAR 2004 HIGHEST		21.85 OCT 16, 2003		LOWEST		26.68 JUL 06, 2004	



MIDDLESEX COUNTY—Continued

373125076251501. Local number, 59J 27.

LOCATION.--Lat 37°31'25", long 76°25'14", NAD83, Hydrologic unit 02080102, 1000 ft east of State Highway 3, 0.9 mi north of Piankatank River. Owner: Carolyn Wuyts.

AQUIFER.--Upper Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1001 ft, screened 981 to 1001 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land surface datum is 30 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.28 ft above land surface datum.

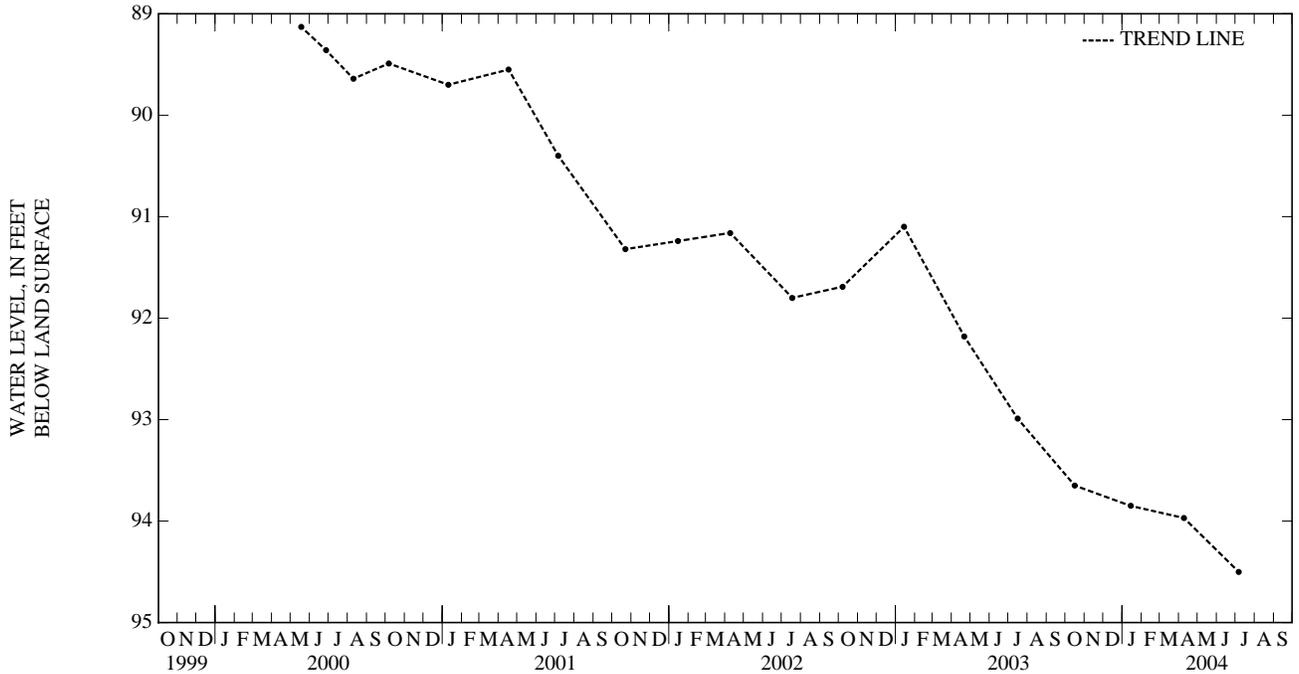
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.13 ft below land-surface datum, May 18, 2000; lowest measured, 94.50 ft below land-surface datum July 6, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	93.65	JAN 14	93.85	APR 09	93.97	JUL 06	94.50
WATER YEAR 2004 HIGHEST		93.65	OCT 16, 2003		LOWEST		94.50 JUL 06, 2004



GROUND-WATER LEVELS
MONTGOMERY COUNTY

370812080261901. Local number, 27F 2 SOW 019.

LOCATION.--Lat 37°08'12", long 80°26'18", NAD83, Hydrologic Unit 05050001, off entrance road to Round Meadow Country Club, 400 ft north of State Highway 661, and 0.5 mi west of Christiansburg. Owner: Town of Christiansburg.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in., depth 450 ft, length of casing unknown.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Apr. 5, 1969 to Apr. 29, 2004, continuous strip-chart recorder. Prior to Apr. 5, 1969, one measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 1,970 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft below land-surface datum prior to May 1, 1990; 0.43 ft above land-surface datum thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Lowest recorded water level, 7.39 ft, is a result of the Mexico earthquake of Sept. 19, 1985, but is not shown as the minimum of record since it is an earthquake affected measurement. Prior to May 1, 1990, brief periods when water flowed over top of casing. Missing record due to recorder malfunction.

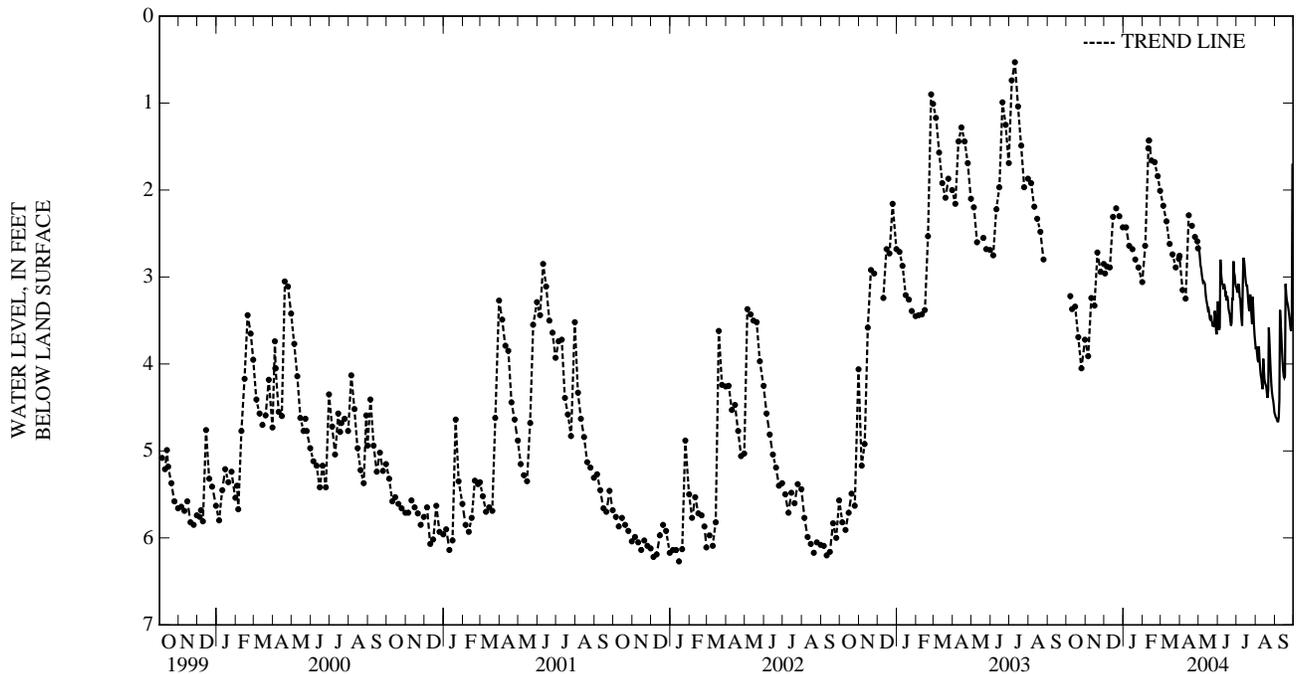
PERIOD OF RECORD.--July 1953, April 1969 to current year. Unpublished record available July 1953 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.02 ft above land-surface datum, Mar. 28, 1993; lowest recorded, 7.30 ft below land-surface datum, Dec. 5, 1969.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 1.43 ft below land-surface datum, Feb. 11; lowest instantaneous water level, 4.66 ft below land-surface datum, Sept. 5, 6.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	3.91	2.88	2.43	2.64	2.18	3.15	2.90	2.80	3.11	3.98	4.66
10	3.37	3.24	2.89	2.64	1.52	2.36	3.25	3.06	3.14	3.56	4.17	3.51
15	3.34	3.33	2.31	2.68	1.66	2.62	3.29	3.33	3.27	2.99	4.18	4.14
20	3.69	2.72	2.21	2.80	1.68	2.74	2.41	3.50	3.43	3.30	4.39	3.27
25	4.05	2.94	2.30	2.89	1.84	2.89	2.54	3.54	3.27	3.44	4.09	3.52
EOM	3.72	2.85	2.43	3.06	2.01	2.76	2.67	3.45	3.11	3.75	4.56	1.71



NEW KENT COUNTY

373111077104601. Local number, 53J 6.

LOCATION.--Lat 37°31'12", long 77°10'45", NAD83, Hydrologic Unit 02080206, 0.18 mi south of State Highway 249 in Brookwood Manor Subdivision, 0.7 mi northeast of the intersection of Interstate Highway 64 and State Highway 249, and 2.95 mi southwest of Quinton. Owner: Thomas M. Brooks.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 6 in., depth 305 ft, screened 285 to 305 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 115 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

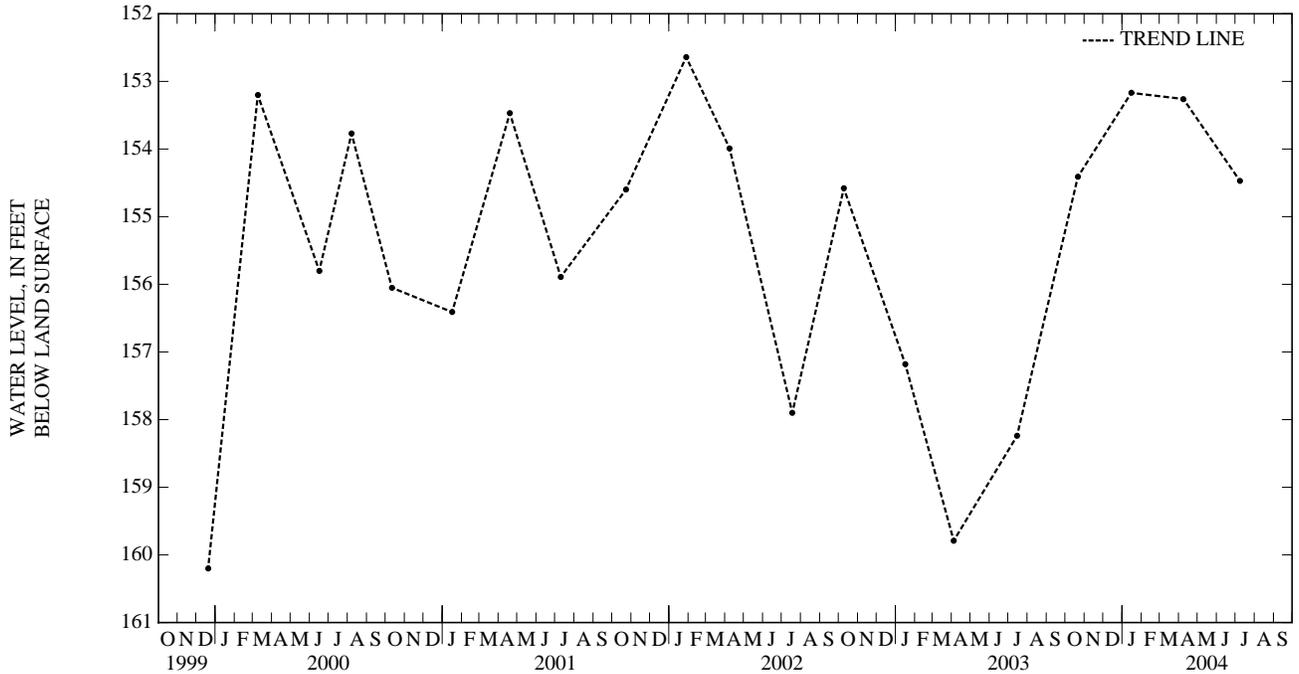
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--November 1983 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 129.91 ft below land-surface datum, Feb. 3, 1984; lowest measured, 160.20 ft below land-surface datum, Dec. 20, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	154.41	JAN 15	153.17	APR 08	153.26	JUL 08	154.47
WATER YEAR 2004 HIGHEST		153.17	JAN 15, 2004		LOWEST		154.47
						JUL 08, 2004	



GROUND-WATER LEVELS
NEW KENT COUNTY—Continued

373024076542201. Local number, 55J 6.

LOCATION.--Lat 37°30'24", long 76°54'21", NAD83, Hydrologic Unit 02080106, 0.25 mi north of State Highway 249, 4.3 mi east of New Kent Courthouse.
Owner: Chad Brunskole.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 275 ft, screened 265 to 275 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 110 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.38 ft above land-surface datum.

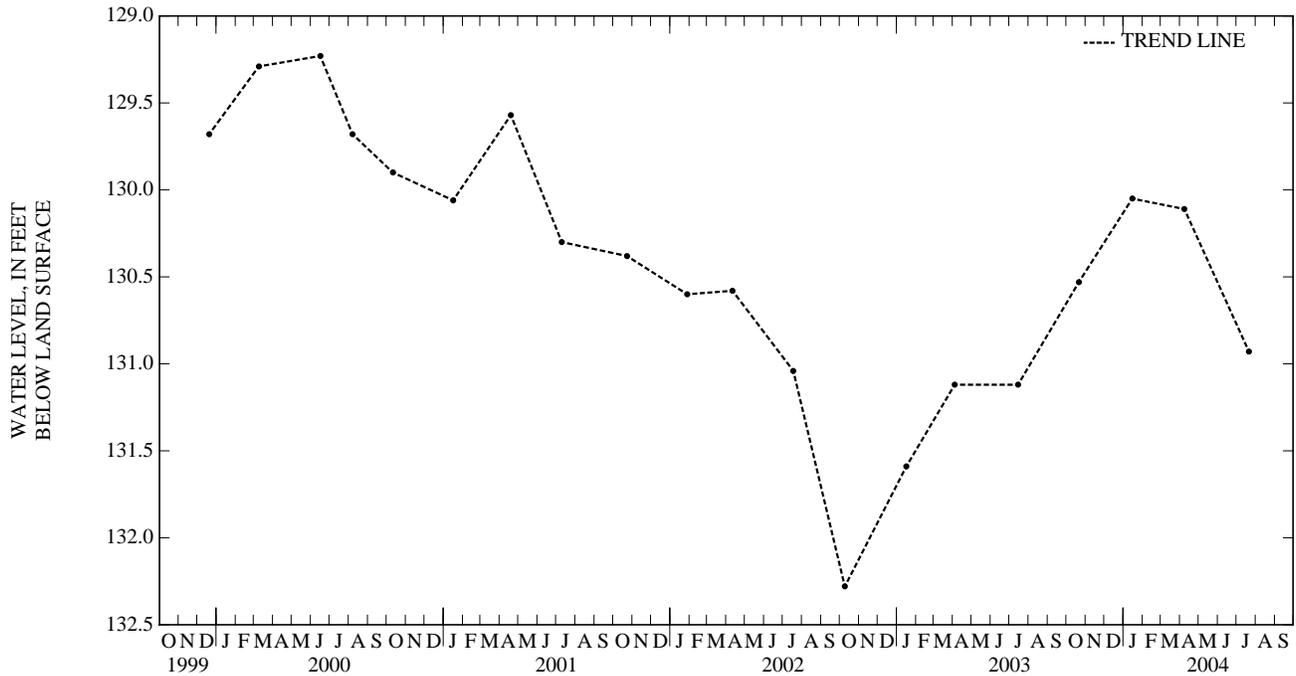
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1972, April 1984 to March 1986, March 1988 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 114.10 ft below land-surface datum, Dec. 7, 1972; lowest measured, 132.28 ft below land-surface datum, Oct. 4, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	130.53	JAN 15	130.05	APR 08	130.11	JUL 21	130.93
WATER YEAR 2004 HIGHEST 130.05		JAN 15, 2004		LOWEST 130.93		JUL 21, 2004	



CITY OF NEWPORT NEWS

371027076335601. Local number, 58F 1 SOW 002.

LOCATION.--Lat 37°10'28", long 76°33'55", NAD83, Hydrologic Unit 02080206, on shore of Lee Hall Reservoir, 0.15 mi north of intersection of State Highway 105 and U.S. Highway 60, and 0.65 mi northeast of Fort Eustis in Newport News. Owner: City of Newport News.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in. to 431.3 ft, diameter 8 in. from 431.3 to 443 ft, diameter 6 in. from 443 to 497 ft, depth 497 ft, screened 476 to 493 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 20 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 2.3 ft above land-surface datum.

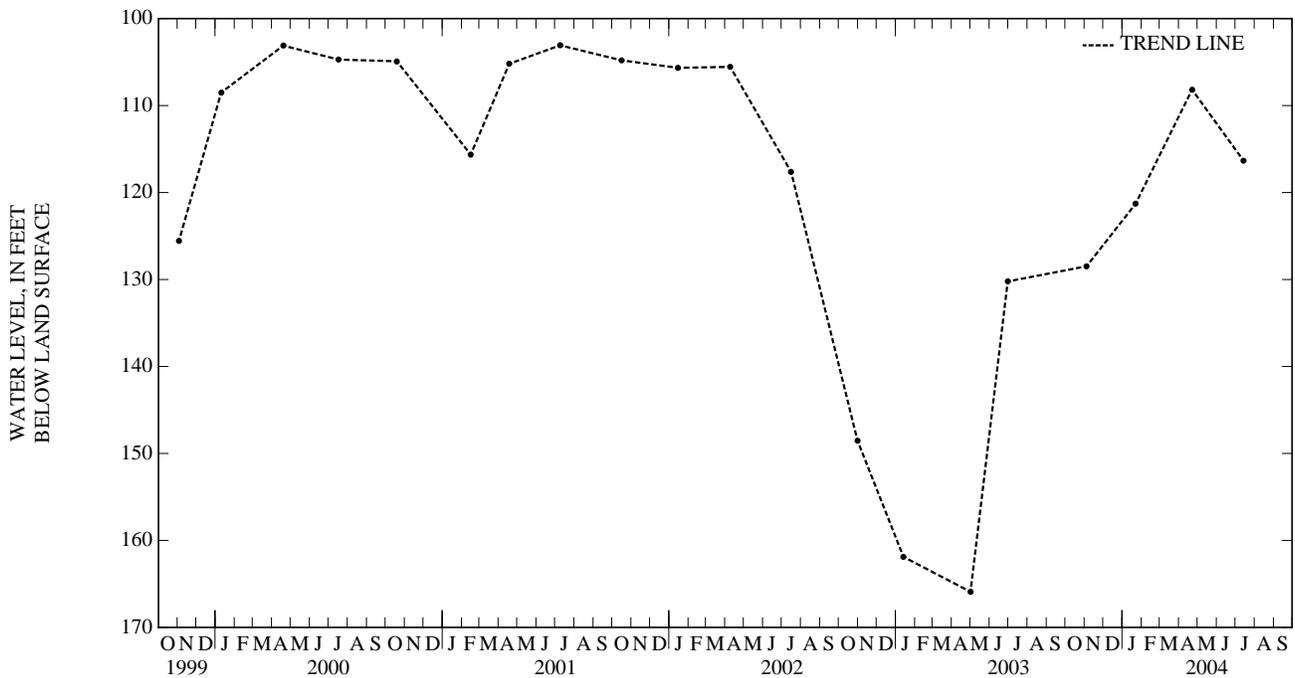
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--January 1968 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.76 ft below land-surface datum, May 10, 1969; lowest measured, 165.91 ft below land-surface datum, May 1, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	128.48	JAN 22	121.29	APR 22	108.17	JUL 14	116.35
WATER YEAR 2004 HIGHEST 108.17		APR 22, 2004		LOWEST 128.48		NOV 04, 2003	



371208076341101. Local number, 58F 50 SOW 171A.

LOCATION.--Lat 37°12'09", long 76°34'10", NAD83, 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.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,236 ft, screened 1,205 to 1,215 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to May 8, 1997, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Apr. 14, 1993; 1.85 ft thereafter.

REMARKS.--Missing record due to recorder malfunction. Water level affected by regional drawdown, nearby pumpage, 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.

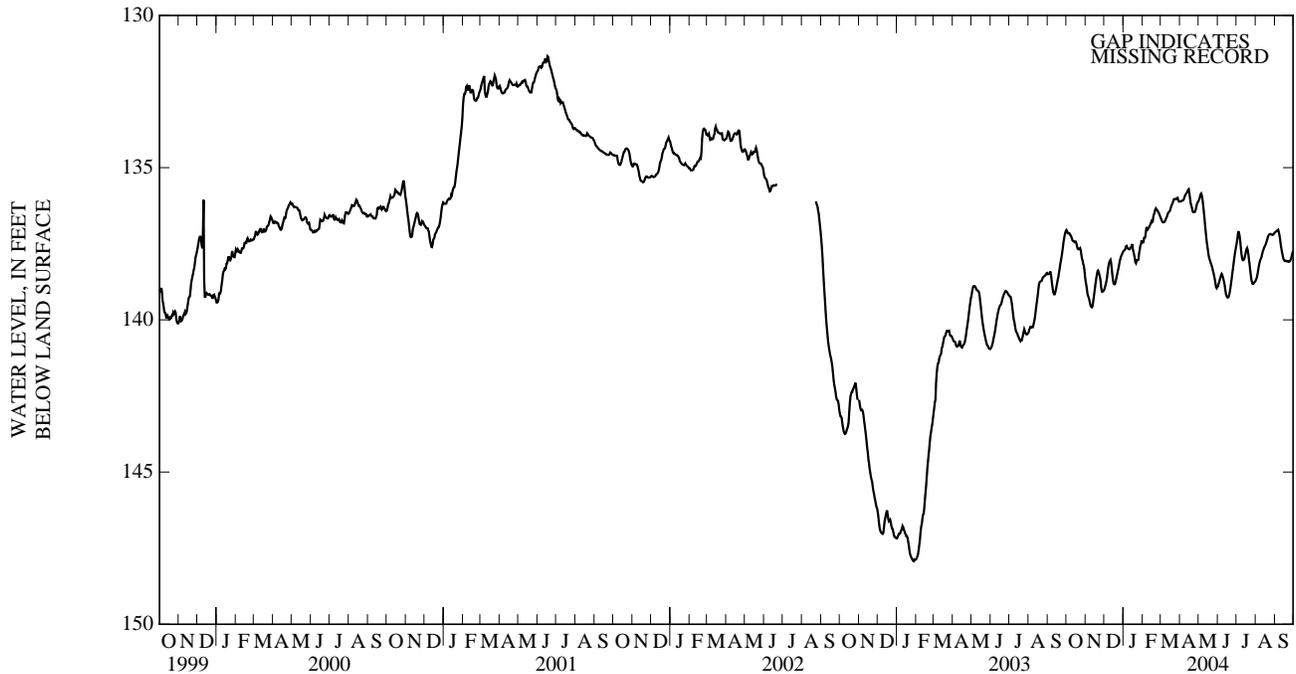
PERIOD OF RECORD.--July 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 106.32 ft below land-surface datum, May 23-27, 1996; lowest recorded, 147.93 ft below land-surface datum, Jan. 28, 2003.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 135.67 ft below land-surface datum, Apr. 15; lowest instantaneous water level, 139.59 ft below land-surface datum, Nov. 11.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	137.15	139.22	138.66	137.58	137.28	136.80	136.08	135.85	138.61	137.15	138.34	137.06
10	137.35	139.58	138.06	137.68	136.98	136.65	135.88	136.59	138.68	137.98	137.95	137.50
15	137.43	139.10	138.70	137.51	136.76	136.44	135.71	137.59	139.22	137.86	137.60	138.02
20	137.68	138.40	138.67	138.11	136.47	136.16	136.31	138.10	139.09	137.85	137.31	138.08
25	137.86	138.73	138.17	138.02	136.42	136.04	136.45	138.47	138.35	138.69	137.18	138.07
EOM	138.59	139.04	137.77	137.46	136.61	136.12	136.12	138.91	137.62	138.74	137.14	137.74



CITY OF NEWPORT NEWS—Continued

371208076341102. Local number, 58F 51 SOW 171B.

LOCATION.--Lat 37°12'09", long 76°34'10", NAD83, 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.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 851 ft, screened 820 to 830 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to Apr. 24, 1996, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Apr. 14, 1993; 1.80 ft thereafter.

REMARKS.--Missing record due to recorder malfunction, except for periods in September, October, December 2002, and January 2003, due to water level below transducer, result of nearby pumpage. Water level affected by regional drawdown, nearby pumpage, 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.

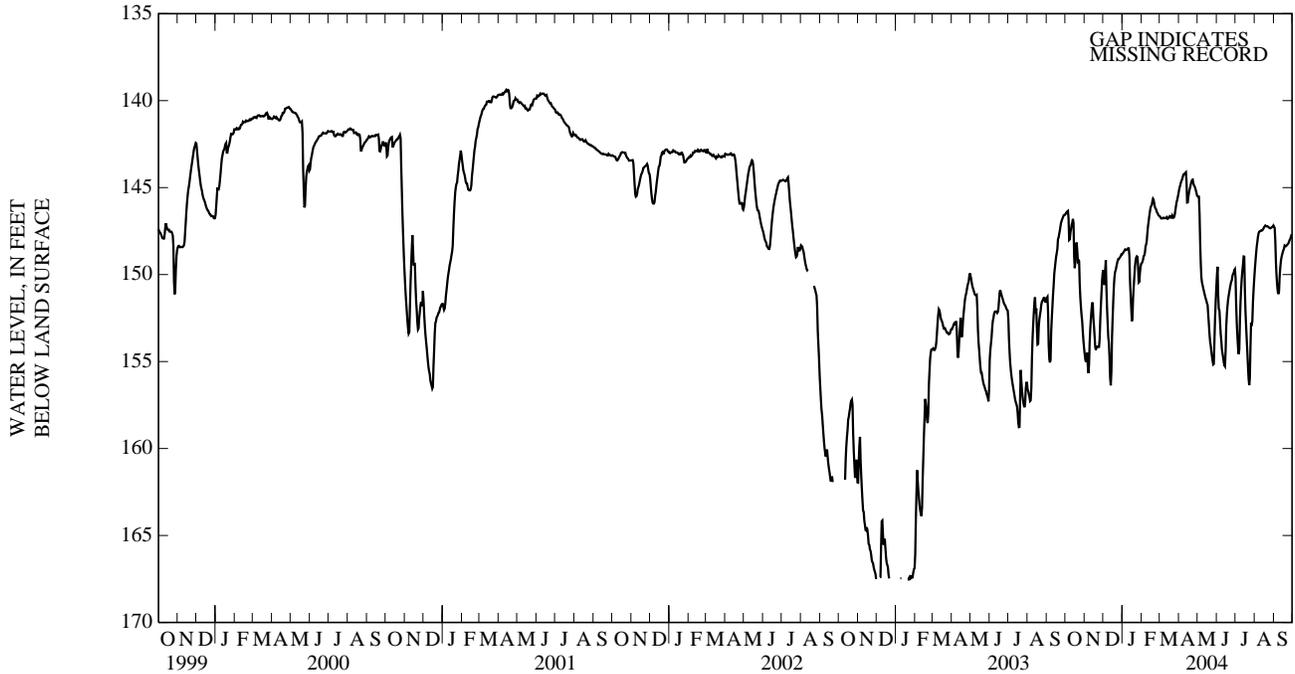
PERIOD OF RECORD.--July 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 126.35 ft below land-surface datum, Mar. 23-25, 1985; lowest recorded, not determined, greater than 167.53 ft, probably occurred during December 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 143.92 ft below land-surface datum, Apr. 13; lowest instantaneous water level, 156.37 ft below land-surface datum, Dec. 13.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	146.34	154.49	149.17	148.56	148.90	146.77	144.60	148.21	152.05	154.20	148.15	150.06
10	147.38	153.11	153.95	148.49	147.60	146.76	144.21	150.80	154.55	150.78	147.49	150.12
15	148.97	152.54	153.63	151.96	146.17	146.73	145.85	151.50	154.35	148.97	147.35	148.72
20	148.60	154.18	149.84	150.10	145.70	146.73	144.79	153.42	151.19	154.50	147.23	148.37
25	151.36	153.75	149.11	148.98	146.39	146.56	144.87	154.96	150.32	154.13	147.33	148.13
EOM	154.23	149.88	148.84	149.38	146.63	145.35	145.46	150.76	149.69	150.29	147.18	147.73



371208076341103. Local number, 58F 52 SOW 171C.

LOCATION.--Lat 37°12'09", long 76°34'10", NAD83, 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.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 537 ft, screened 527 to 537 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to April 24, 1996, digital recorder, 60-minute punch. October 1993 to June 1994, occasional measurement with chalked tape by USGS personnel. Prior to October 1993, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Apr. 14, 1993; 3.1 ft thereafter.

REMARKS.--Missing record due to recorder malfunction except for periods in September, October, and December 2002, due to water level below transducer, result of nearby pumpage. Water level affected by regional drawdown, nearby pumpage, 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.

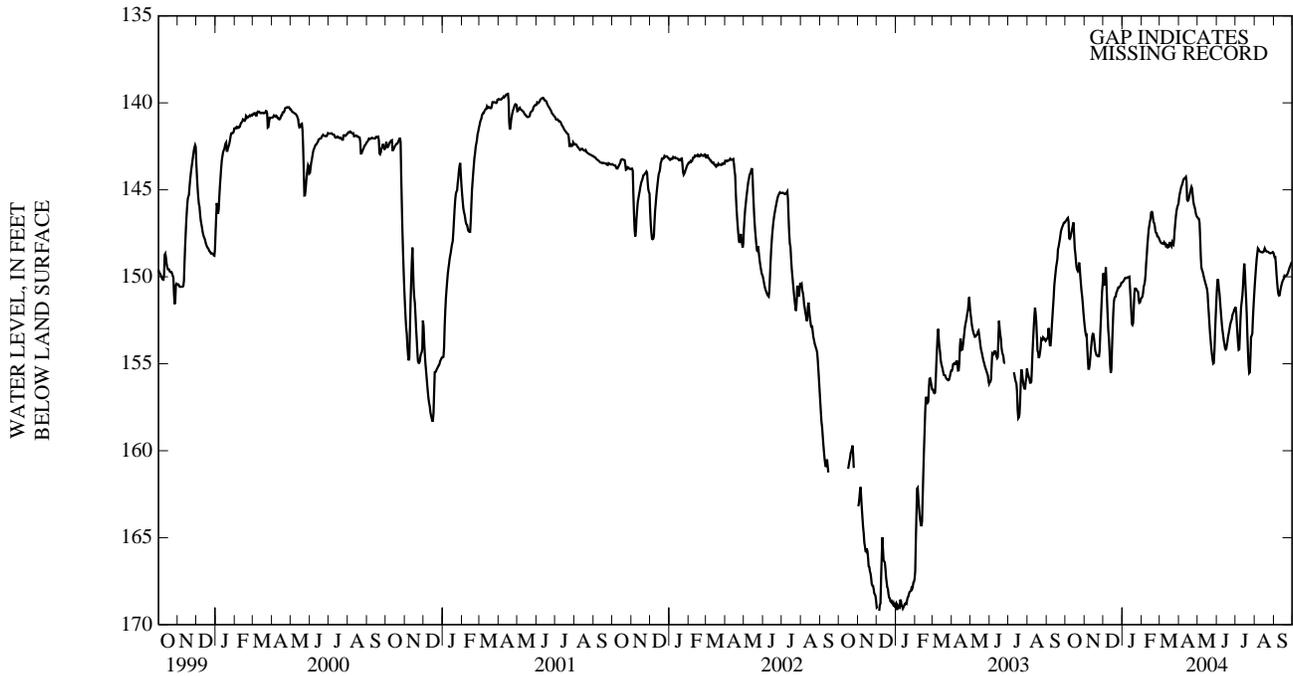
PERIOD OF RECORD.--June 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 128.12 ft below land-surface datum, Mar. 23, 1985; lowest recorded, not determined, greater than 169.22 ft, occurred Dec. 3-4, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 144.07 ft below land-surface datum, Apr. 13; lowest instantaneous water level, 155.53 ft below land-surface datum, July 23.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	146.61	153.97	149.46	150.07	150.45	148.08	144.78	147.79	150.91	153.82	148.67	149.85
10	147.56	154.66	153.53	150.02	148.17	148.09	144.35	149.87	153.10	151.72	148.56	151.06
15	147.64	153.29	154.09	151.97	146.68	148.29	145.63	150.57	154.18	149.24	148.57	150.23
20	149.61	154.51	151.15	150.95	146.86	148.24	144.95	152.76	153.25	153.33	148.55	149.95
25	150.01	154.27	150.62	150.83	147.50	147.28	145.87	154.77	152.43	154.57	148.64	149.59
EOM	152.48	150.37	150.34	151.22	147.83	145.81	146.56	151.45	151.84	151.03	148.62	149.18



CITY OF NEWPORT NEWS—Continued

371208076341104. Local number, 58F 53 SOW 171D.

LOCATION.--Lat 37°12'09", long 76°34'10", NAD83, 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.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 343 ft, screened 333 to 343 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1999, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Apr. 14, 1993; 2.9 ft thereafter.

REMARKS.--Missing record due to recorder malfunction. 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.

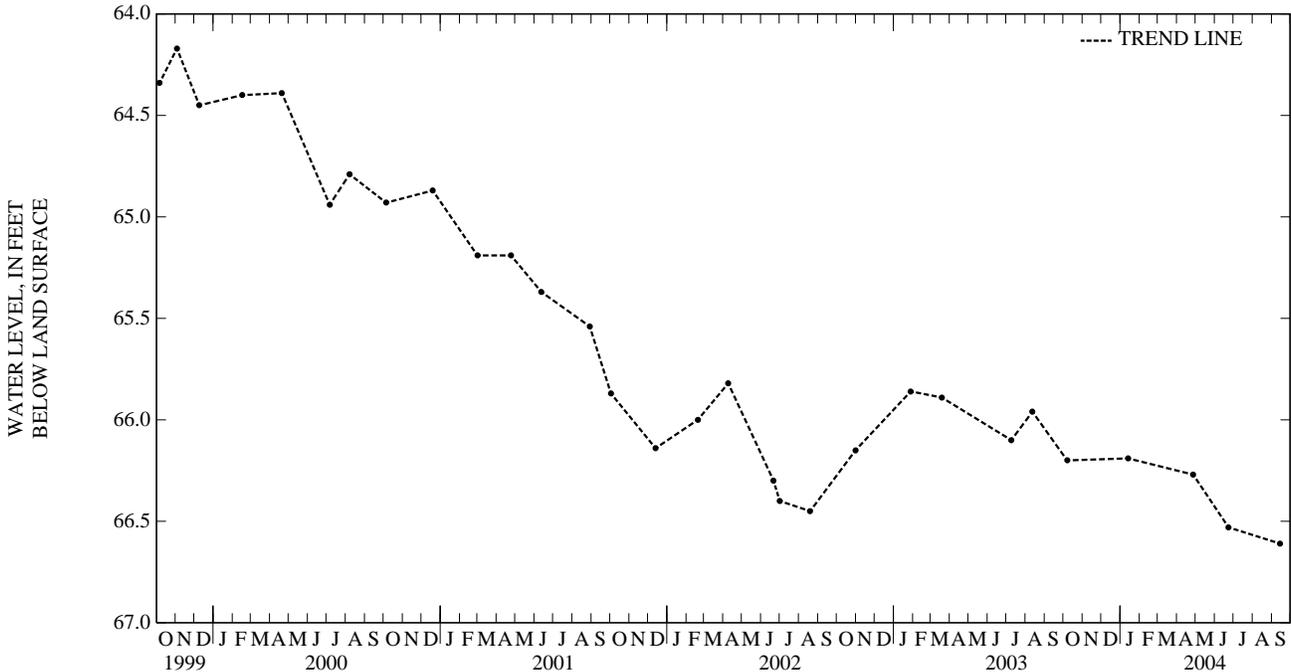
PERIOD OF RECORD.--July 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 55.18 ft below land-surface datum, Feb. 2, 1985; lowest recorded, 66.61 ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL								
OCT 07	66.20	JAN 13	66.19	APR 27	66.27	JUN 23	66.53	SEP 14	66.61

WATER YEAR 2004 HIGHEST 66.19 JAN 13, 2004 LOWEST 66.61 SEP 14, 2004



371208076341105. Local number, 58F 54 SOW 171E.

LOCATION.--Lat 37°12'09", long 76°34'10", NAD83, 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.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 88 ft, screened 78 to 88 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1999, digital recorder, 60-minute punch. Digital recorder was removed from Oct. 18, 1991 to July 8, 1992. During this period, occasional measurements with chalked tape.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to July 8, 1992; 1.6 ft thereafter.

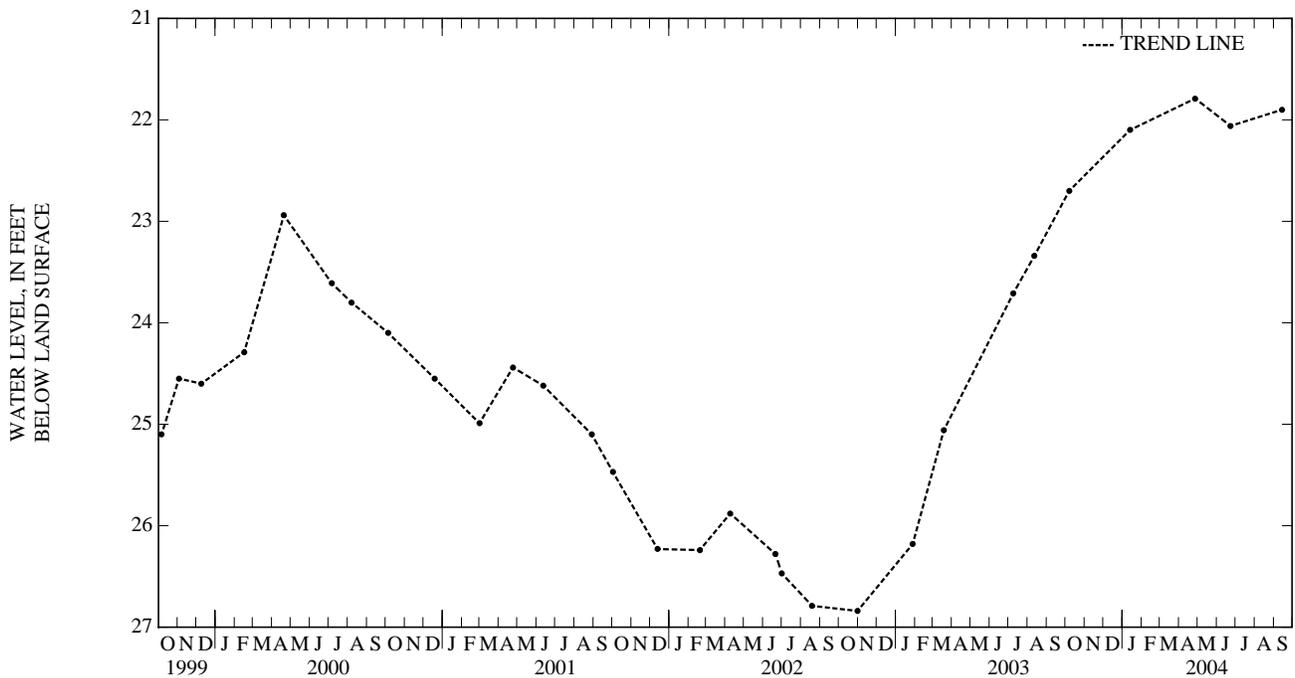
REMARKS.--Missing record due to recorder malfunction. Water level affected by occasional pumpage for water-quality sampling. Occasional stepping in hydrograph due to well not being plumb and float rubbing the side of the casing.

PERIOD OF RECORD.--June 1984 to October 1991, July 1992 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 21.79 ft below land-surface datum, Apr. 27, 2004; lowest recorded, 27.34 ft below land-surface datum, Nov. 1, 1990.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	22.70	JAN 13	22.10	APR 27	21.79	JUN 23	22.06	SEP 14	21.90
WATER YEAR 2004 HIGHEST		21.79 APR 27, 2004		LOWEST		22.70 OCT 07, 2003			



CITY OF NEWPORT NEWS—Continued

371208076341106. Local number, 58F 55 SOW 171F.

LOCATION.--Lat 37°12'09", long 76°34'10", NAD83, 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.

AQUIFER.--Cornwallis Cave aquifer of Pliocene-Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 60 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1999, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

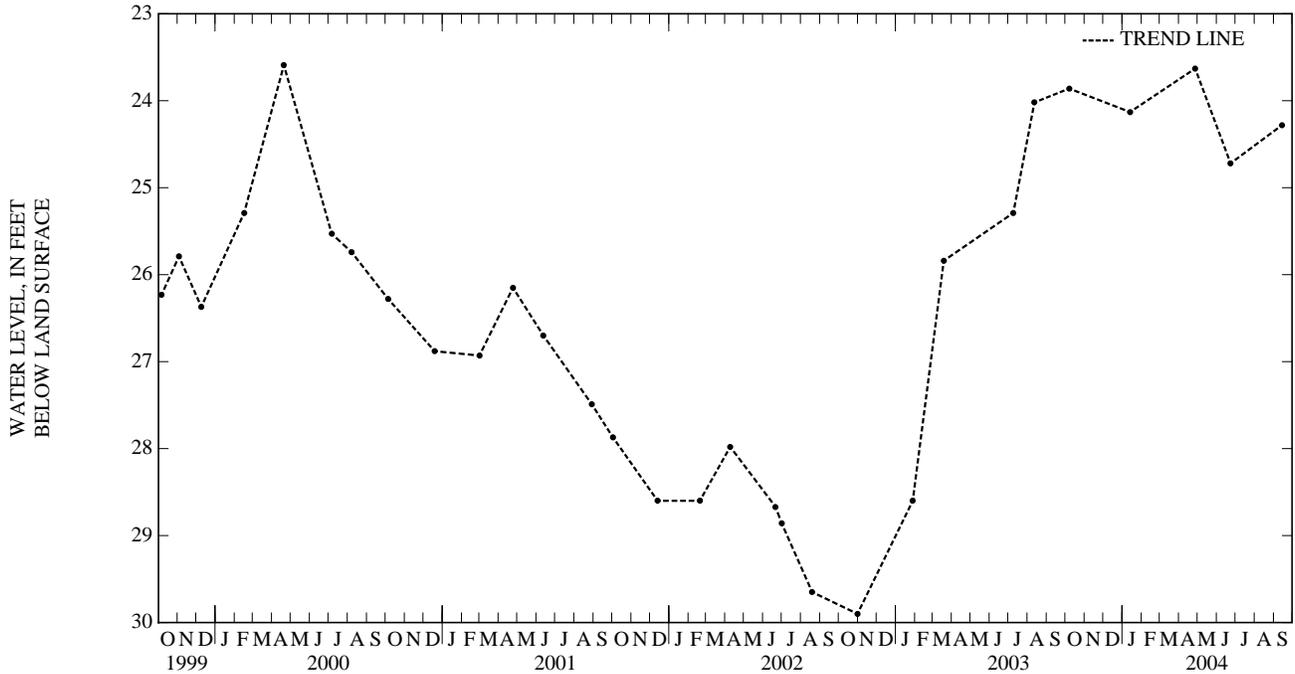
REMARKS.--Water level affected by occasional pumpage for water-quality sampling.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 23.04 ft below land-surface datum, May 21-24, 1993; lowest measured, 29.90 ft below land-surface datum, Oct. 31, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	23.86	JAN 13	24.13	APR 27	23.63	JUN 23	24.72	SEP 14	24.28
WATER YEAR 2004 HIGHEST		23.63	APR 27, 2004 LOWEST		24.72	JUN 23, 2004			



GROUND-WATER LEVELS

CITY OF NORFOLK

365223076122101. Local number, 61C 1.

LOCATION.--Lat 36°52'24", long 76°12'20", NAD83, Hydrologic Unit 02080108, at Moores Bridge Filter Plant, 0.3 mi east of intersection of State Highway 165 and U.S. Highway 13 in Norfolk. Owner: City of Norfolk.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 970 ft, screened 900 to 960 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10.80 ft above NGVD of 1929. Measuring point: Inner edge of manhole at land-surface datum. Prior to Oct. 29, 1987, measuring point at top of casing, 3.15 ft above land-surface datum.

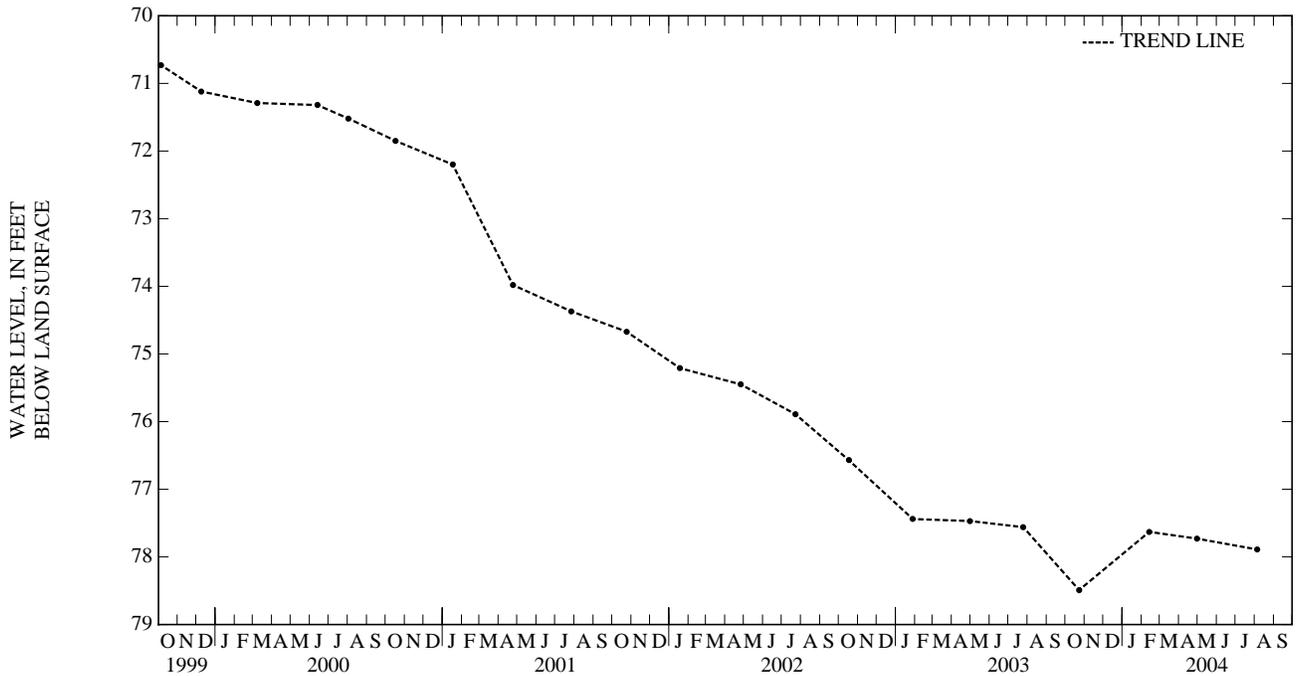
REMARKS.--Water level affected by local pumpage, regional drawdown, and recharge operations in nearby wells May 18, 1971, to Nov. 5, 1973.

PERIOD OF RECORD.--January 1968 to June 1990, September 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.70 ft below land-surface datum, Feb. 17, 1968; lowest measured, 78.49 ft below land-surface datum, Oct. 23, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	78.49	FEB 13	77.63	APR 30	77.73	AUG 05	77.89
WATER YEAR 2004 HIGHEST		77.63 FEB 13, 2004	LOWEST		78.49	OCT 23, 2003	



NORTHAMPTON COUNTY

371543076003401. Local number, 62G 15 SOW 121.

LOCATION.--Lat 37°15'43", long 76°00'33", NAD83, Hydrologic Unit 02080110, 100 ft southwest of State Highway 642, 0.5 mi south of intersection of State Highways 184 and 642, and 0.7 mi southeast of Cape Charles. Owner: Brown and Root Corporation.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 190 ft, screened 180 to 190 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to July 15, 1985, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 12 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--November 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

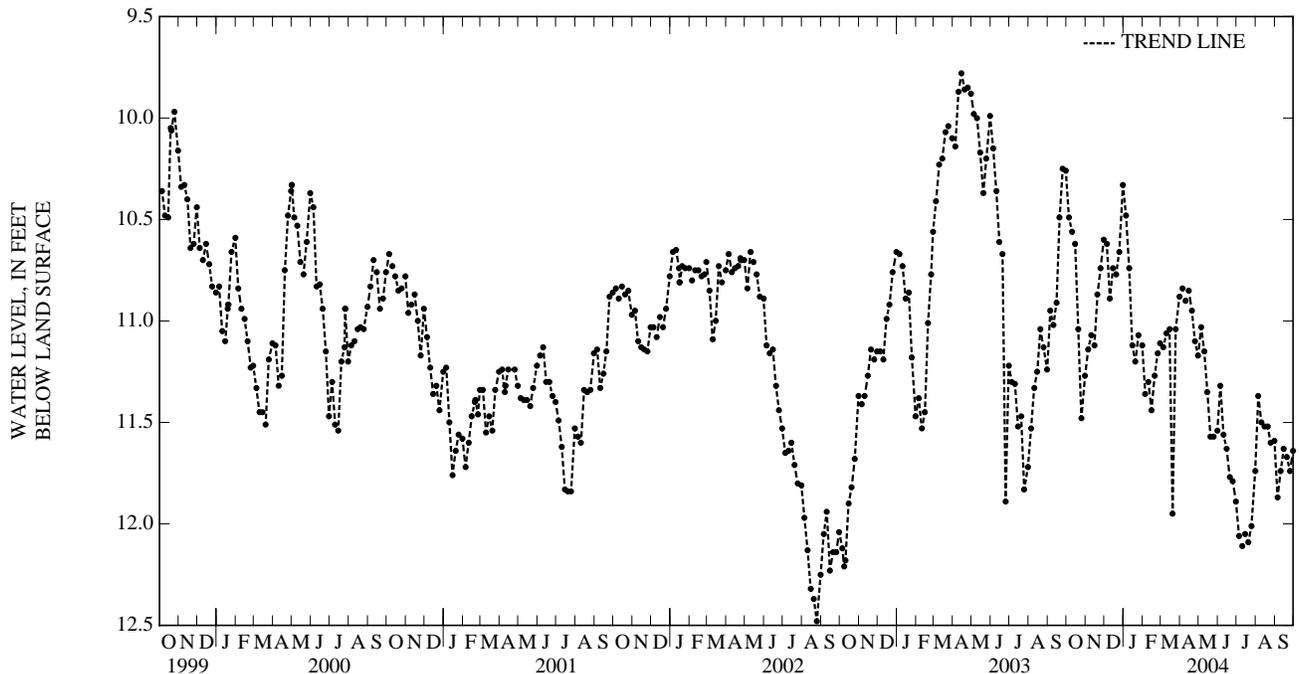
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.37 ft below land-surface datum, May 11, 12, 13, 1998; lowest recorded, 14.31 ft below land-surface datum, Jan. 16, 17, 1986.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 10.26 ft below land-surface datum, Oct. 1; lowest instantaneous water level, 12.16 ft below land-surface datum, July 17.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.49	11.14	10.62	10.48	11.36	11.13	10.84	11.03	11.32	12.06	11.37	11.87
10	10.56	11.07	10.89	10.74	11.30	11.06	10.90	11.15	11.56	12.11	11.50	11.74
15	10.62	11.12	10.74	11.12	11.44	11.04	10.85	11.35	11.63	12.05	11.52	11.63
20	11.04	10.87	10.77	11.20	11.27	11.95	10.95	11.57	11.77	12.09	11.52	11.67
25	11.48	10.74	10.66	11.07	11.16	11.04	11.10	11.57	11.79	12.01	11.60	11.74
EOM	11.27	10.60	10.33	11.12	11.11	10.88	11.17	11.54	11.89	11.74	11.59	11.64

WATER YEAR 2004 HIGHEST 10.33 DEC 31, 2003 LOWEST 12.11 JUL 10, 2004



GROUND-WATER LEVELS

NORTHAMPTON COUNTY—Continued

371307075583501. Local number, 63F 15 SOW 105A.

LOCATION.--Lat 37°13'08", long 75°58'34", NAD83, Hydrologic Unit 02080109, 50 ft south of State Highway 644, 0.3 mi west of intersection of State Highway 644 and U.S. Highway 13, and 1.3 mi north of Cheapside. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 130 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 5, 1985 to Oct. 24, 1995, continuous strip-chart recorder. Prior to Oct. 5, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 31.97 ft above NGVD of 1929. Measuring point: Top of recorder shelf, 1.1 ft above land-surface datum prior to July 21, 1987; 1.4 ft thereafter.

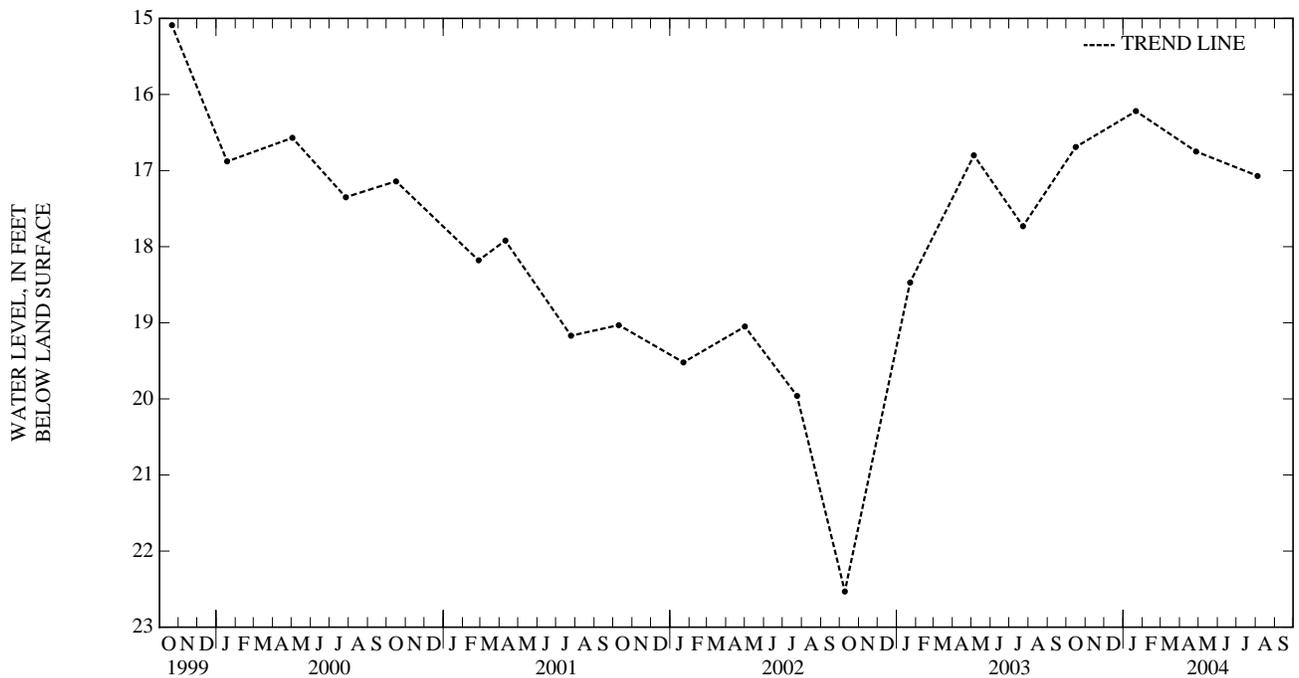
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.44 ft below land-surface datum, Apr. 12, 1982; lowest recorded, 24.62 ft below land-surface datum, June 15, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	16.69	JAN 21	16.22	APR 27	16.75	AUG 04	17.07
WATER YEAR 2004 HIGHEST		16.22 JAN 21, 2004		LOWEST		17.07 AUG 04, 2004	



NORTHAMPTON COUNTY—Continued

371307075583502. Local number, 63F 16 SOW 105C.

LOCATION.--Lat 37°13'08", long 75°58'34", NAD83, Hydrologic Unit 02080109, 50 ft south of State Highway 644, 0.3 mi west of intersection of State Highway 644 and U.S. Highway 13, and 1.3 mi north of Cheapside. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 285 ft, screened 275 to 285 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 31.16 ft above NGVD of 1929. Measuring point: Top of casing, 0.1 ft above land-surface datum prior to Mar. 1, 1994; 0.6 ft thereafter.

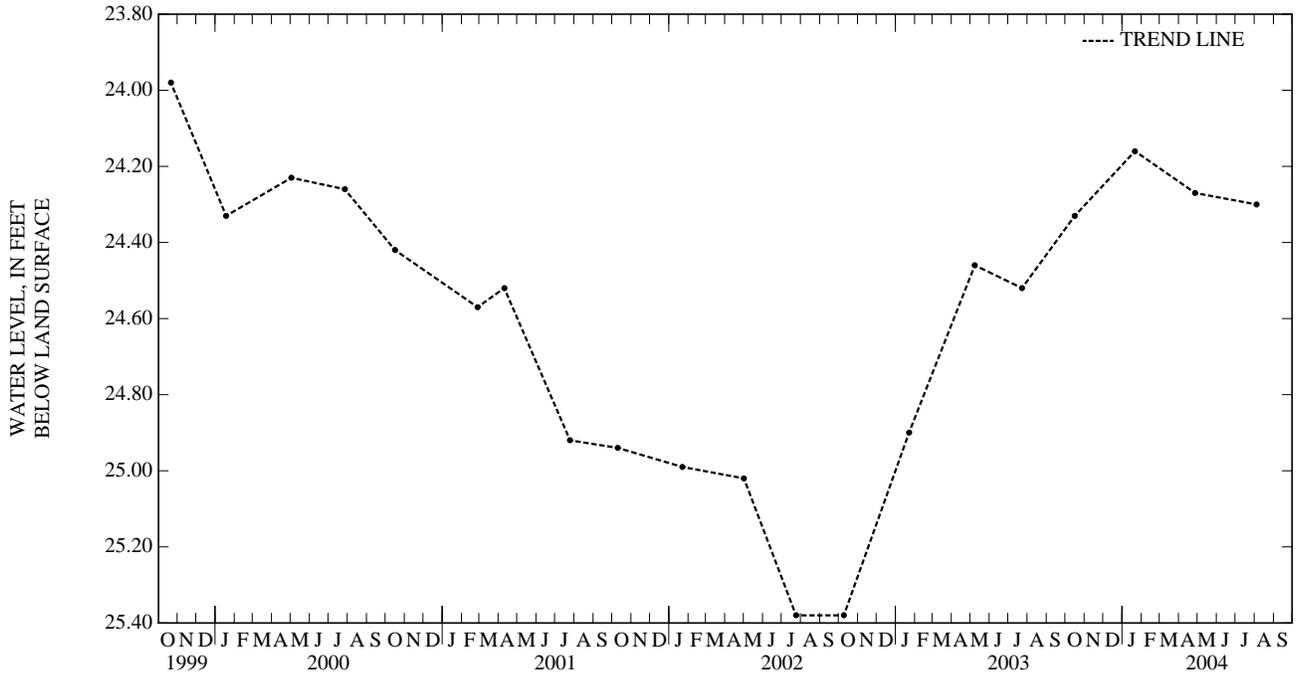
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.90 ft below land-surface datum, July 7, 1998; lowest measured, 29.58 ft below land-surface datum, May 23, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	24.33	JAN 21	24.16	APR 27	24.27	AUG 04	24.30
WATER YEAR 2004 HIGHEST		24.16	JAN 21, 2004		LOWEST		24.33
OCT 16, 2003							



GROUND-WATER LEVELS

NORTHAMPTON COUNTY—Continued

371307075583503. Local number, 63F 17 SOW 105B.

LOCATION.--Lat 37°13'08", long 75°58'34", NAD83, Hydrologic Unit 02080109, 50 ft south of State Highway 644, 0.3 mi west of intersection of State Highway 644 and U.S. Highway 13, and 1.3 mi north of Cheapside. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 196 ft, screened 186 to 196 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 31.50 ft above NGVD of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum, prior to July 22, 1996. 1.0 ft thereafter.

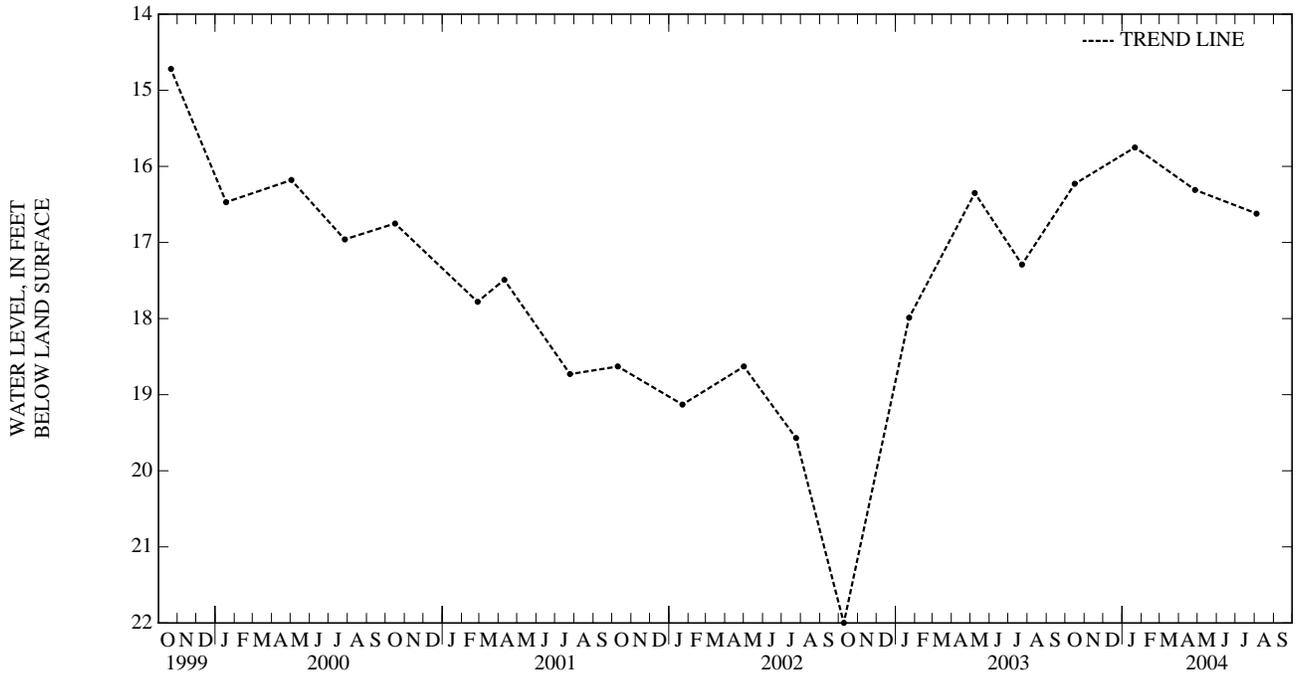
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.72 ft below land-surface datum, Oct. 21, 1999; lowest measured, 22.00 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	16.23	JAN 21	15.75	APR 27	16.31	AUG 04	16.62
WATER YEAR 2004 HIGHEST		15.75	JAN 21, 2004		LOWEST		16.62
						AUG 04, 2004	



NORTHAMPTON COUNTY—Continued

371307075583601. Local number, 63F 34.

LOCATION.--Lat 37°13'08", long 75°58'35", NAD83, Hydrologic Unit 02080109, 50 ft south of State Highway 644, 0.35 mi west of intersection of U.S. Highway 13 and State Highway 644, and 1.55 mi northwest of Capeville. Owner: U.S. Geological Survey.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Driven observation water well, diameter 2 in., depth 13 ft, screened 10 to 13 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Aug. 16 to Sept. 30, 1989, bimonthly measurement with chalked tape by USGS personnel. Jan. 22, 1988, to Aug. 16, 1989, digital recorder 60-minute punch. Prior to Jan. 22, 1988, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 31.15 ft above NGVD of 1929. Measuring point: Top of casing, 1.85 ft above land-surface datum.

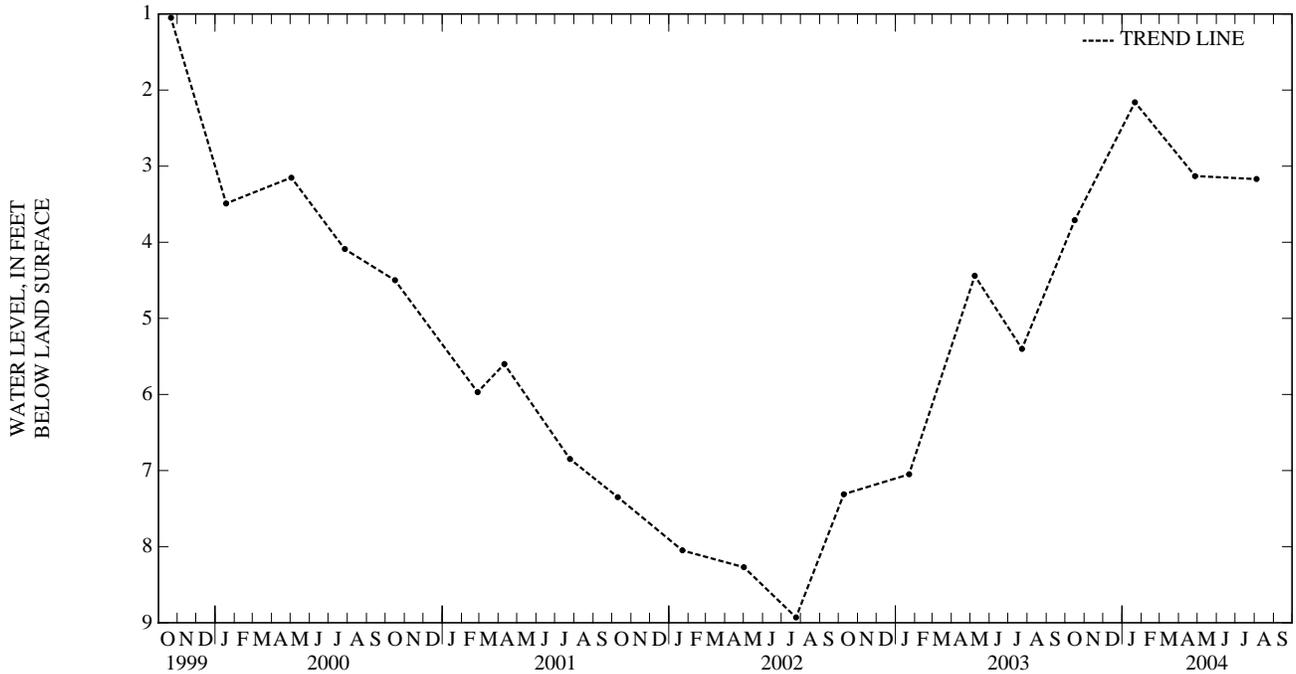
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1987 to current year. Unpublished records available prior to October 1987 in files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.05 ft below land-surface datum, Oct. 21, 1999; lowest measured, 9.08 ft below land-surface datum, Feb. 4, 5, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	3.71	JAN 21	2.16	APR 27	3.13	AUG 04	3.17
WATER YEAR 2004 HIGHEST		2.16	JAN 21, 2004 LOWEST		3.71	OCT 16, 2003	



GROUND-WATER LEVELS

NORTHAMPTON COUNTY—Continued

370807075570802. Local number, 63F 51 SOW 182A

LOCATION.--Lat 37°08'08", long 75°57'07", NAD83, Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,730 ft, screened 1,720 to 1,730 ft.

INSTRUMENTATION.--Occasional measurement with manometer and/or chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with manometer and/or chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

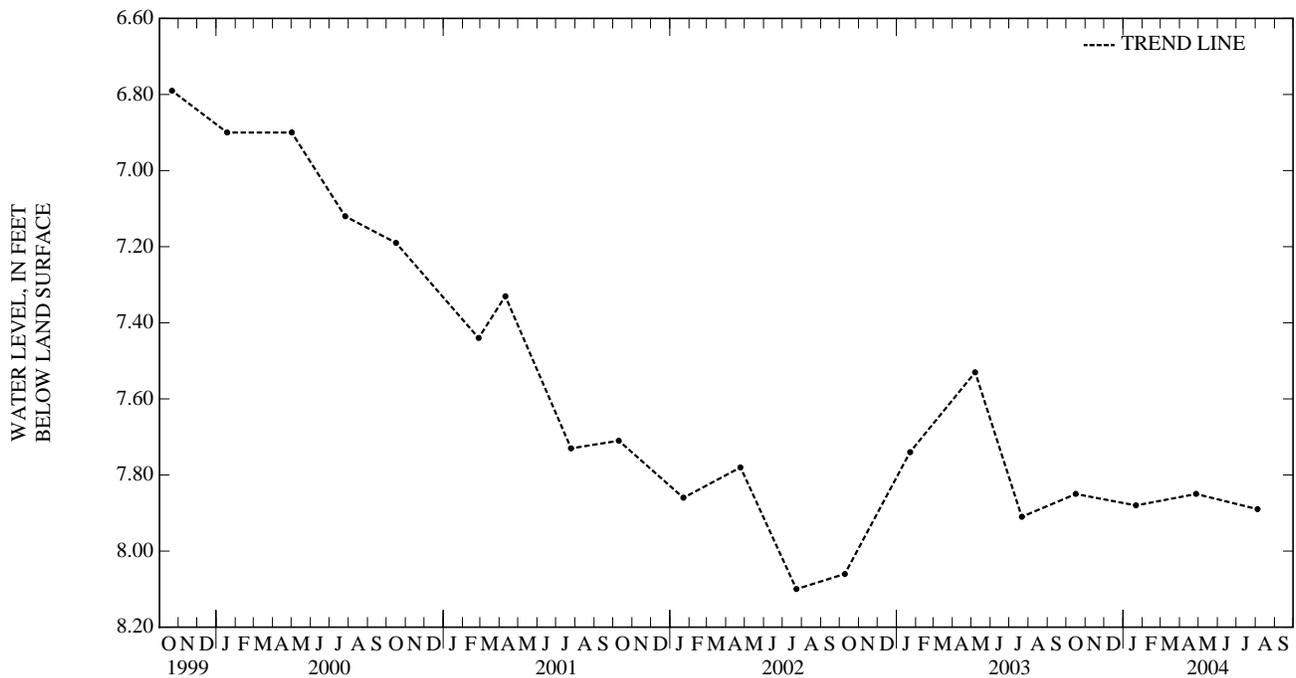
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by occasional pumpage for water-quality sampling. Cause of nonrecovery to pre-pumpage level after November 1997 unknown.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.35 ft above land-surface datum, May 7, 1990; lowest measured, 8.76 ft below land-surface datum, Nov. 12, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	7.85	JAN 21	7.88	APR 27	7.85	AUG 04	7.89
WATER YEAR 2004 HIGHEST		7.85	OCT 16, 2003	APR 27, 2004		LOWEST	7.89
							AUG 04, 2004



NORTHAMPTON COUNTY—Continued

370807075570803. Local number, 63F 52 SOW 182B.

LOCATION.--Lat 37°08'08", long 75°57'07", NAD83, Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,040 ft, diameter 2 in. from 1,040 to 1,320 ft, depth 1,320 ft, screened 1,300 to 1,320 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

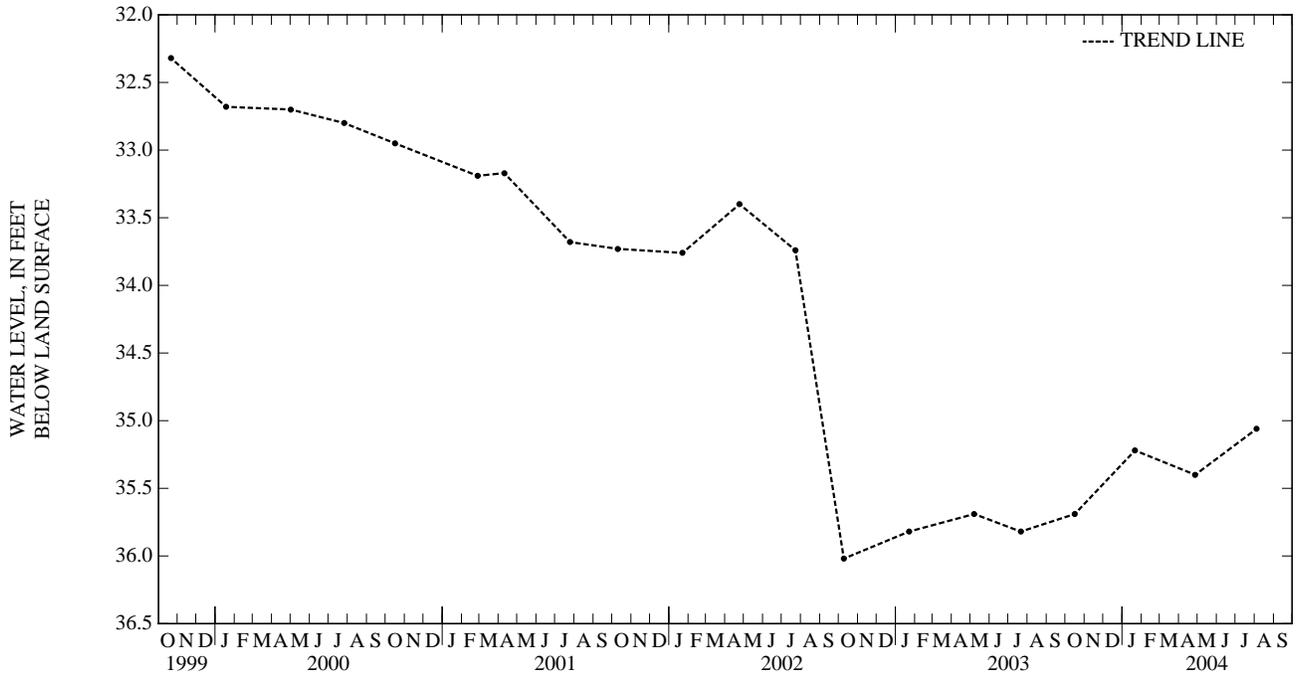
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by occasional pumpage for water-quality sampling. Cause of nonrecovery to pre-pumpage level after November 1997 unknown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.12 ft below land-surface datum, Dec. 3, 1990; lowest measured, 36.02 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	35.69	JAN 21	35.22	APR 27	35.40	AUG 04	35.06
WATER YEAR 2004 HIGHEST		35.06	AUG 04, 2004 LOWEST		35.69	OCT 16, 2003	



GROUND-WATER LEVELS
NORTHAMPTON COUNTY—Continued

370807075570804. Local number, 63F 53 SOW 182C.

LOCATION.--Lat 37°08'08", long 75°57'07", NAD83, Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 188 ft, diameter 2 in. from 188 to 220 ft, depth 220 ft, screened 210 to 220 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

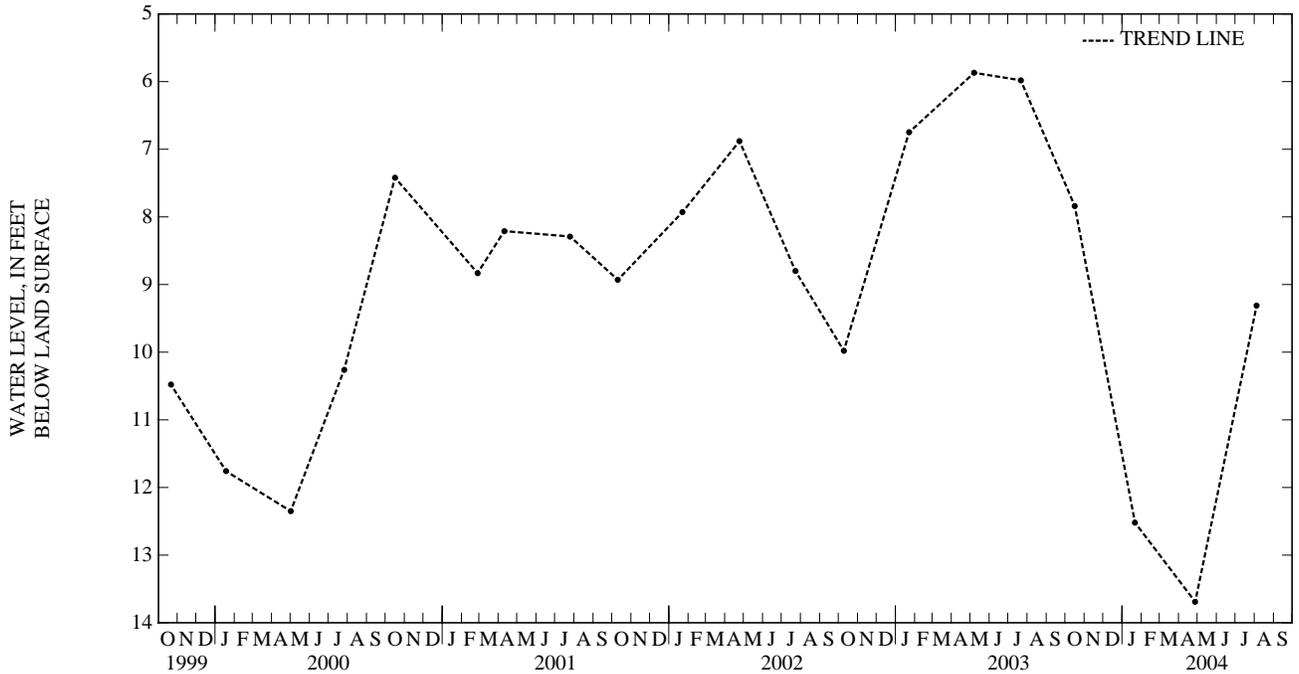
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.90 ft below land-surface datum, Jan. 22, 1991; lowest measured, 13.80 ft below land-surface datum, Apr. 11, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	7.84	JAN 21	12.52	APR 27	13.69	AUG 04	9.31
WATER YEAR 2004 HIGHEST 7.84		OCT 16, 2003		LOWEST 13.69		APR 27, 2004	



NORTHAMPTON COUNTY—Continued

370807075570805. Local number, 63F 54 SOW 182D.

LOCATION.--Lat 37°08'08", long 75°57'07", NAD83, Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 55 ft, screened 45 to 55 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

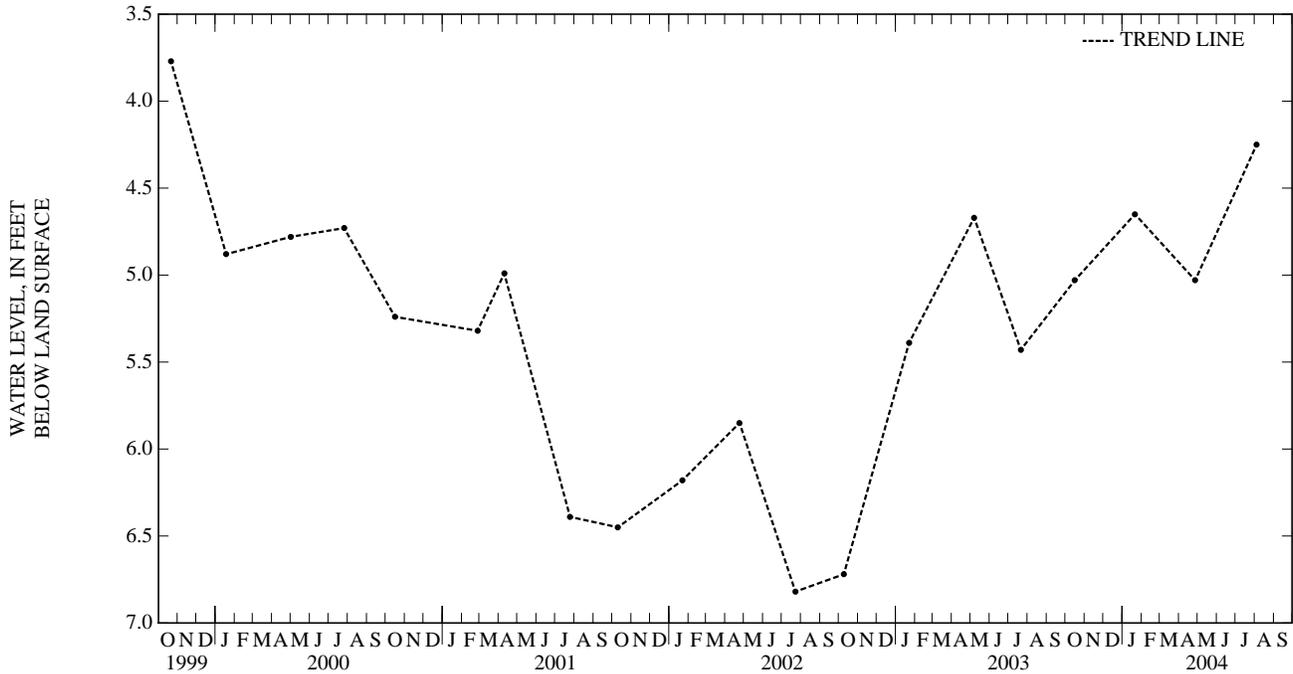
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.77 ft below land-surface datum, Oct. 21, 1999; lowest measured, 7.90 ft below land-surface datum, July 8, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	5.03	JAN 21	4.65	APR 27	5.03	AUG 04	4.25
WATER YEAR 2004 HIGHEST		4.25	AUG 04, 2004		LOWEST		5.03
						OCT 16, 2003	



GROUND-WATER LEVELS

NORTHAMPTON COUNTY—Continued

370807075570806. Local number, 63F 55 SOW 182E.

LOCATION.--Lat 37°08'08", long 75°57'07", NAD83, Hydrologic Unit 02080110, at Kiptopeke Wildlife Refuge, 0.6 mi southeast of State Highway 600, 0.8 mi southeast of Kiptopeke, and 0.9 mi southeast of intersection of State Highway 600 and U.S. Highway 13. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 24, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

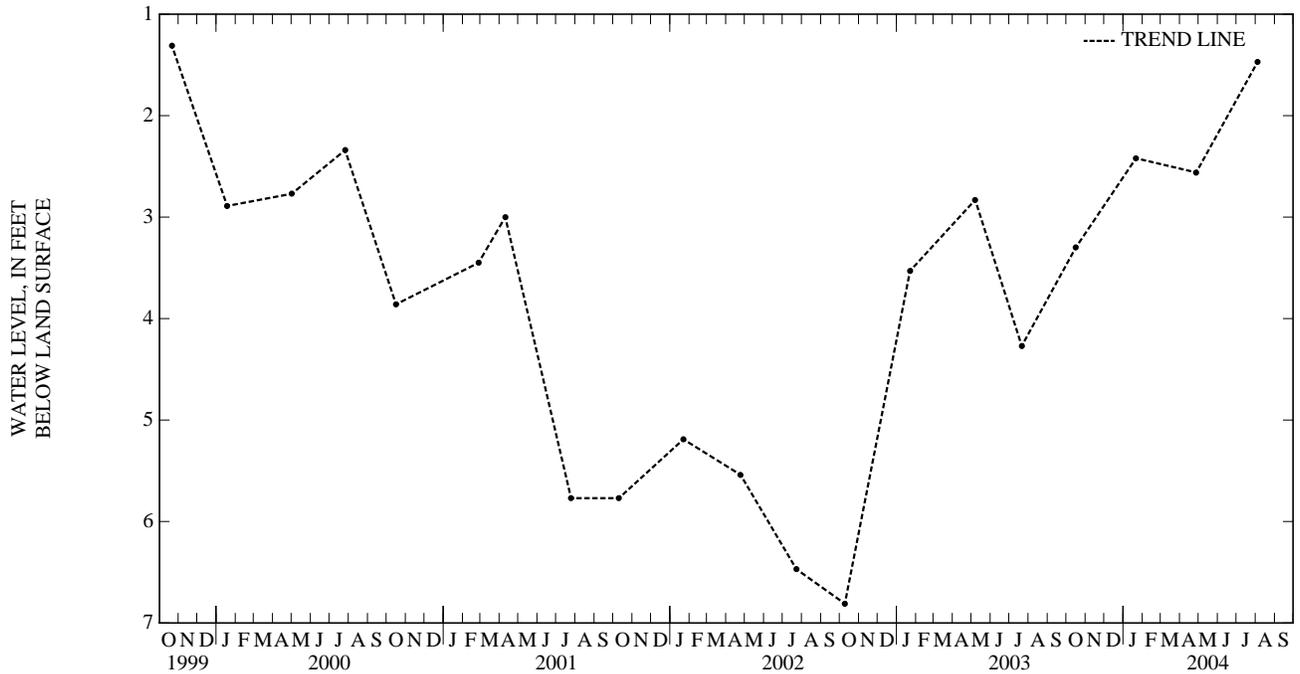
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.31 ft below land-surface datum, Oct. 21, 1999; lowest measured, 6.81 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	3.30	JAN 21	2.42	APR 27	2.56	AUG 04	1.47
WATER YEAR 2004 HIGHEST		1.47	AUG 04, 2004 LOWEST		3.30	OCT 16, 2003	



NORTHAMPTON COUNTY—Continued

371709075560801. Local number, 63G 15 SOW 104C.

LOCATION.--Lat 37°17'09", long 75°56'06", NAD83, Hydrologic Unit 02080110, 50 ft north of State Highway 639, 0.1 mi east of intersection of State Highways 600 and 639, and 0.7 mi west of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 310 ft, screened 300 to 310 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. July 15, 1985 to Oct. 23, 1995, continuous strip-chart recorder. Prior to July 15, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 28 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.24 ft above land-surface datum prior to Nov. 10, 1986; 1.75 ft prior to June 4, 1996. Top of casing, 1.50 ft thereafter.

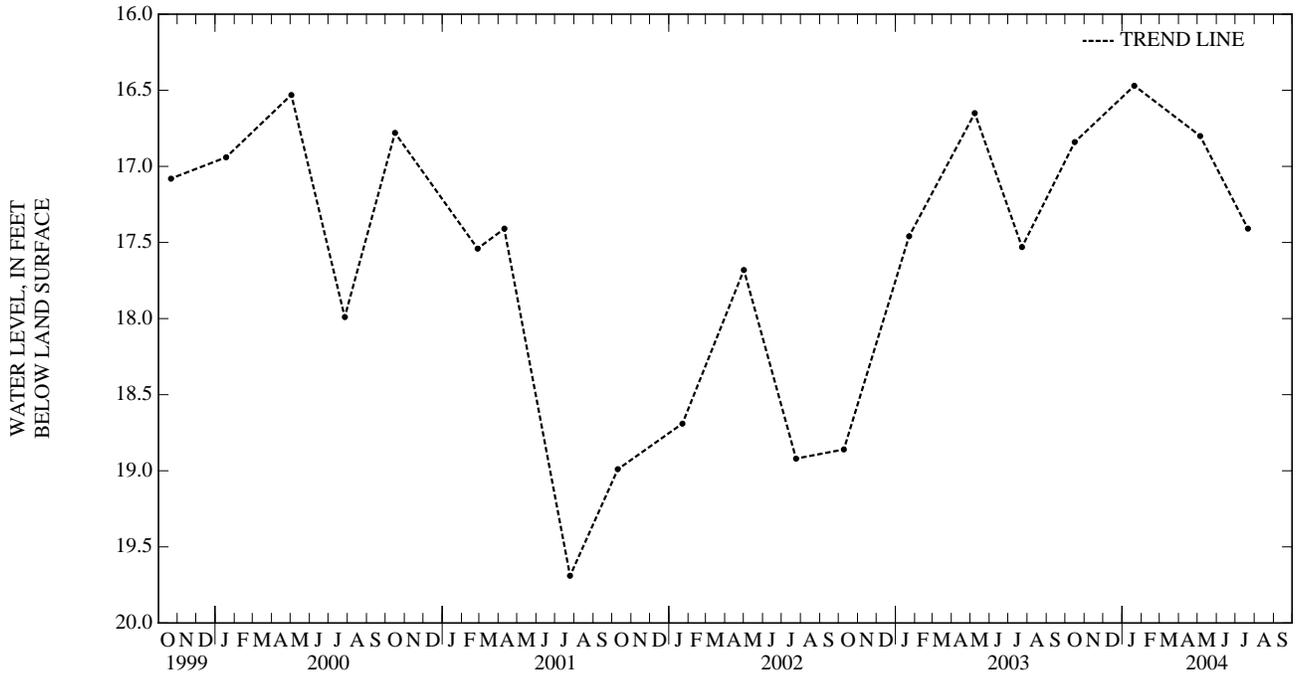
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 16.11 ft below land-surface datum, Apr. 21, 1998; lowest measured, 27.96 ft below land-surface datum, Oct. 8, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	16.84	JAN 20	16.47	MAY 05	16.80	JUL 21	17.41
WATER YEAR 2004 HIGHEST		16.47	JAN 20, 2004 LOWEST		17.41	JUL 21, 2004	



GROUND-WATER LEVELS

NORTHAMPTON COUNTY—Continued

371709075560802. Local number, 63G 16 SOW 104B.

LOCATION.--Lat 37°17'09", long 75°56'07", NAD83, Hydrologic Unit 02080110, 50 ft north of State Highway 639, 0.1 mi east of intersection of State Highways 600 and 639, and 0.7 mi west of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 240 ft, screened 230 to 240 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 28 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Feb. 29, 1988; 0.9 ft thereafter.

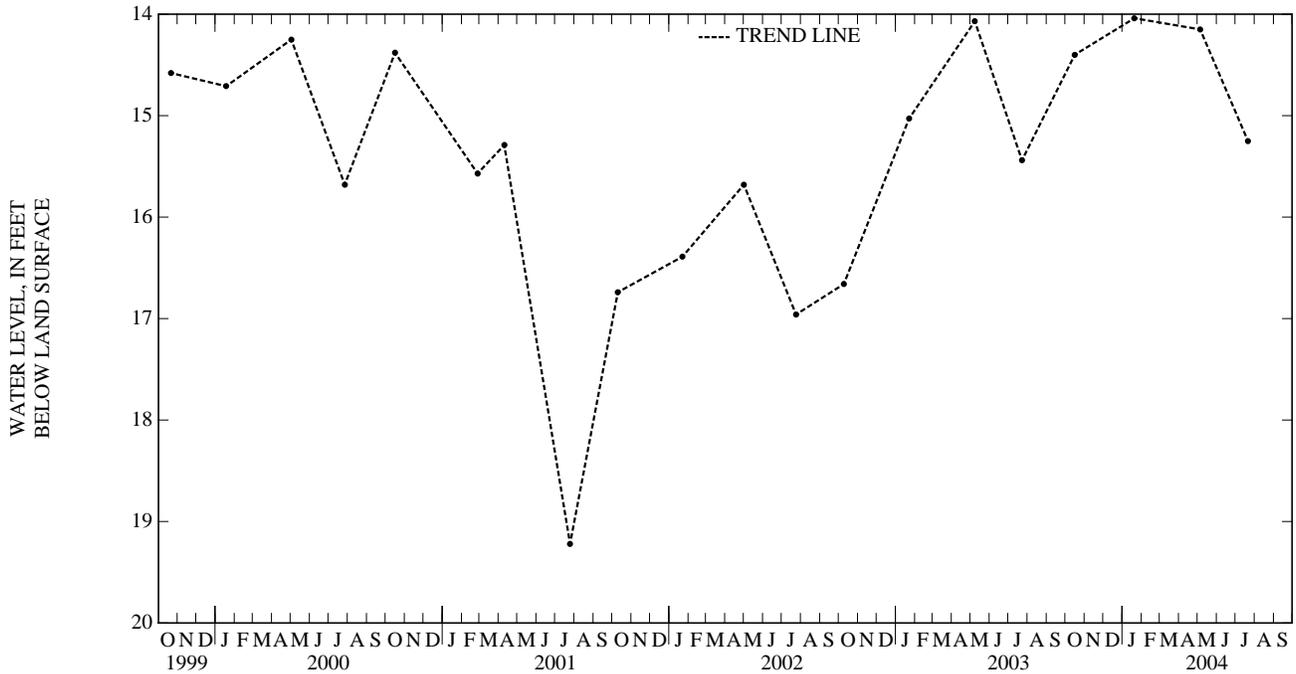
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.54 ft below land-surface datum, Apr. 21, 1998; lowest measured, 23.47 ft below land-surface datum, Oct. 8, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	14.40	JAN 20	14.04	MAY 05	14.15	JUL 21	15.25
WATER YEAR 2004 HIGHEST		14.04	JAN 20, 2004 LOWEST		15.25	JUL 21, 2004	



NORTHAMPTON COUNTY—Continued

371709075560803. Local number, 63G 17 SOW 104A.

LOCATION.--Lat 37°17'09", long 75°56'07", NAD83, Hydrologic Unit 02080110, 50 ft north of State Highway 639, 0.1 mi east of intersection of State Highways 600 and 639, and 0.7 mi west of Oyster. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 140 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 28 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.05 ft above land-surface datum prior to Feb. 29, 1988; 0.5 ft thereafter.

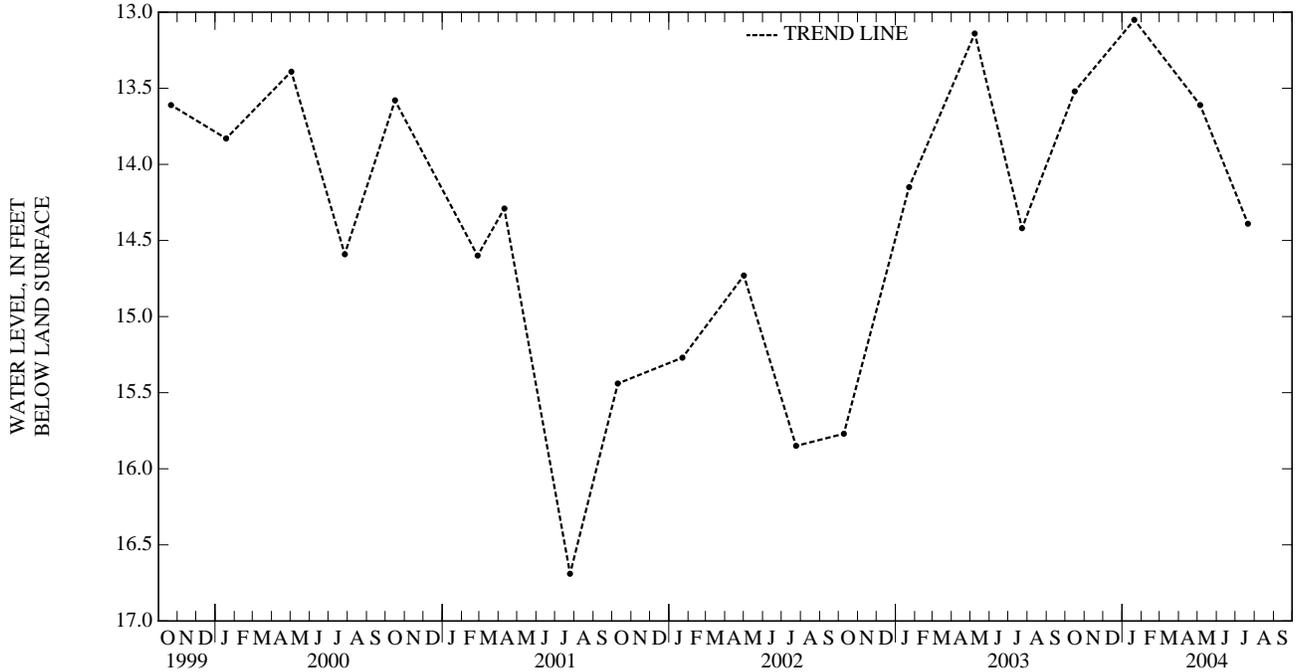
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.62 ft below land-surface datum, Apr. 21, 1998; lowest measured, 21.99 ft below land-surface datum, Oct. 8, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	13.52	JAN 20	13.05	MAY 05	13.61	JUL 21	14.39
WATER YEAR 2004 HIGHEST		13.05	JAN 20, 2004 LOWEST		14.39	JUL 21, 2004	



GROUND-WATER LEVELS

NORTHAMPTON COUNTY—Continued

371653075584801. Local number, 63G 22 SOW 111A.

LOCATION.--Lat 37°16'53", long 75°58'47", NAD83, Hydrologic Unit 02080109, 50 ft west of U.S. Highway 13, 0.4 mi north of intersection of U.S. Highway 13 and State Highway 641, and 0.7 mi southwest of Cheriton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 150 ft, screened 140 to 150 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum prior to Apr. 27, 1987; 1.60 ft Apr. 27, 1987 to Feb. 29, 1988; 1.1 ft Mar. 1, 1988 to June 19, 1989; 0.80 ft June 20 1989 to Oct. 19, 1999; 0.85 ft thereafter.

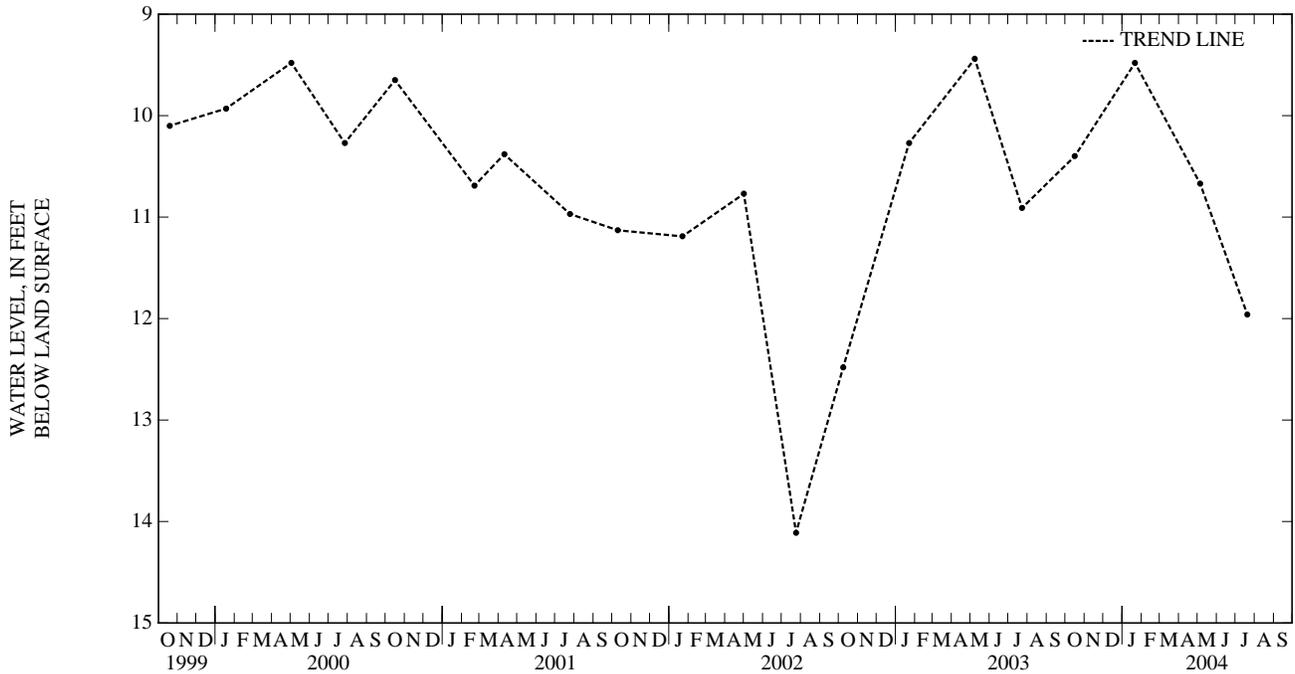
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.60 ft below land-surface datum, Apr. 21, 1998; lowest measured, 14.51 ft below land-surface datum, Feb. 17, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	10.40	JAN 21	9.48	MAY 05	10.67	JUL 20	11.96
WATER YEAR 2004 HIGHEST		9.48	JAN 21, 2004 LOWEST		11.96	JUL 20, 2004	



NORTHAMPTON COUNTY—Continued

371653075584802. Local number, 63G 23 SOW 111B.

LOCATION.--Lat 37°16'53", long 75°58'47", NAD83, Hydrologic Unit 02080109, 50 ft west of U.S. Highway 13, 0.4 mi north of intersection of U.S. Highway 13 and State Highway 641, and 0.7 mi southwest of Cheriton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 280 ft, screened 270 to 280 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. July 20, 1985 to Oct. 24, 1995, continuous strip chart recorder. Prior to July 20, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.42 ft above land-surface datum prior to July 20, 1987; 1.56 ft thereafter.

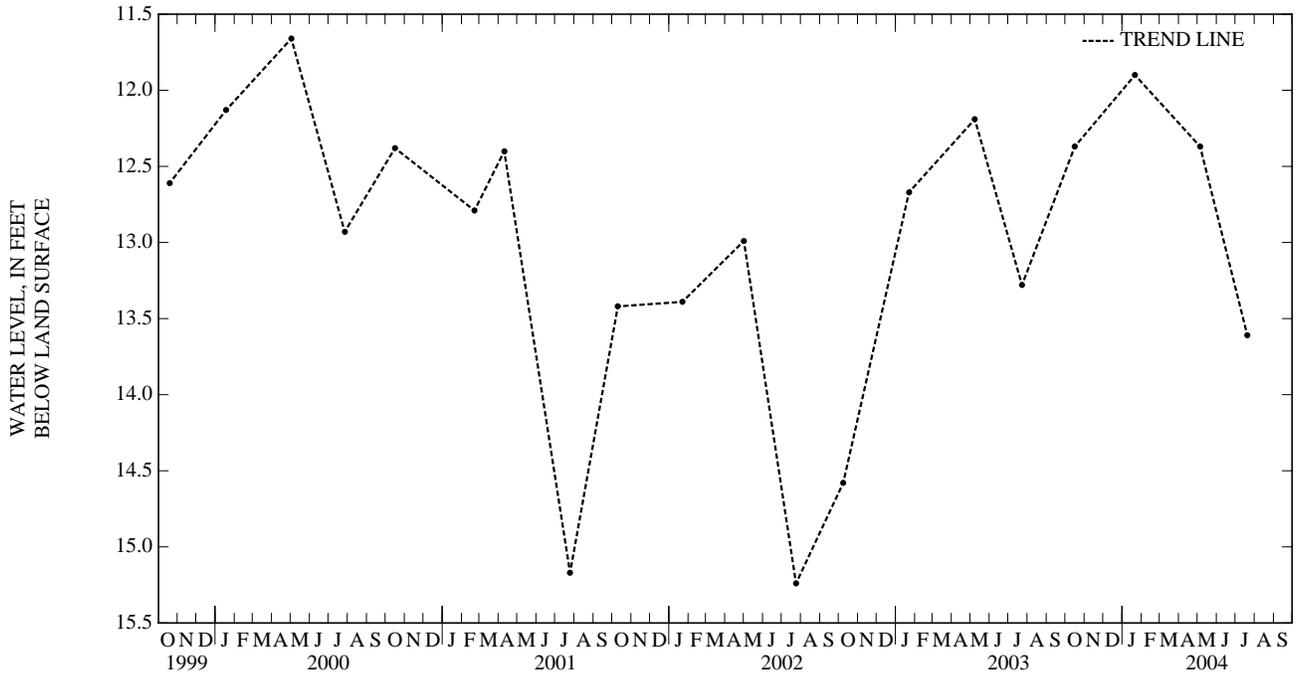
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.01 ft below land-surface datum, Dec. 30, 1982; lowest measured, 22.47 ft below land-surface datum, Sept. 15, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	12.37	JAN 21	11.90	MAY 05	12.37	JUL 20	13.61
WATER YEAR 2004 HIGHEST		11.90 JAN 21, 2004	LOWEST		13.61 JUL 20, 2004		



GROUND-WATER LEVELS

NORTHAMPTON COUNTY—Continued

371653075584804. Local number, 63G 25 SOW 111S.

LOCATION.--Lat 37°16'53", long 75°58'47", NAD83, Hydrologic Unit 02080109, 50 ft west of U.S. Highway 13, 0.4 mi north of intersection of U.S. Highway 13 and State Highway 641, and 0.7 mi southwest of Cheriton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 1.25 in., depth 70 ft, screened 60 to 70 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.64 ft above land-surface datum prior to Oct. 10, 1996; 0.60 ft thereafter.

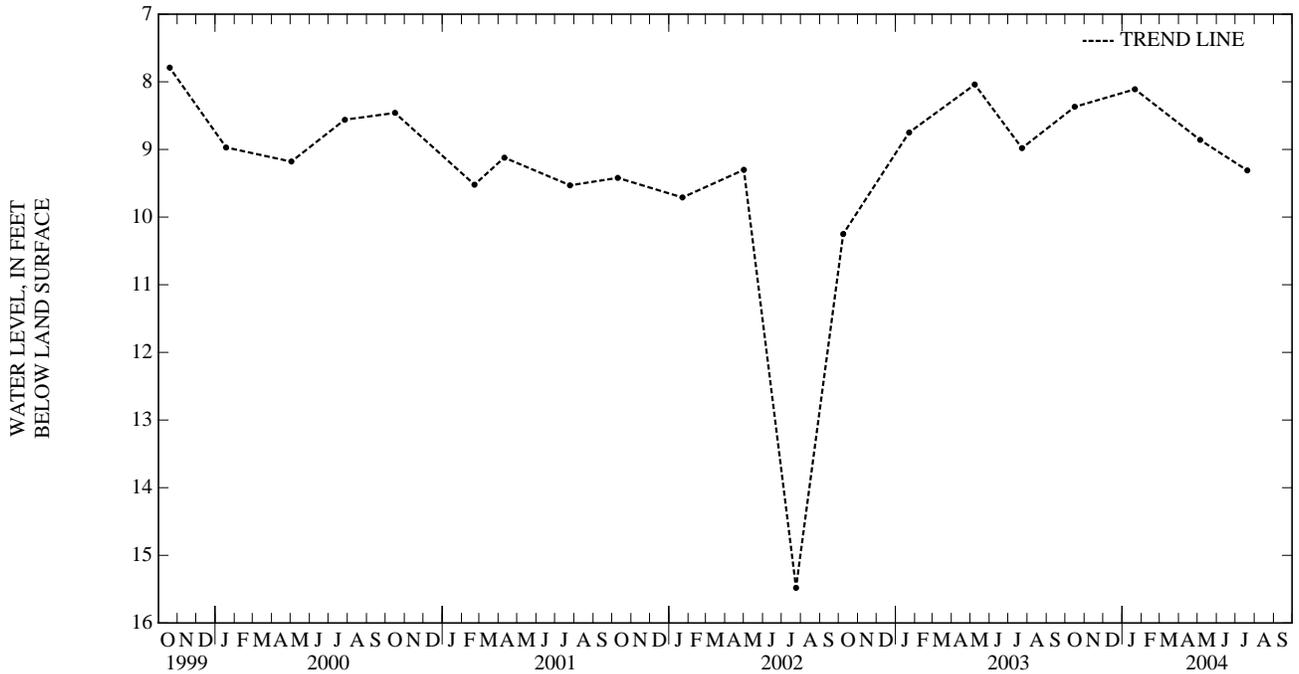
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.64 ft below land-surface datum, Apr. 21, 1998; lowest measured, 15.48 ft below land-surface datum, July 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	8.37	JAN 21	8.11	MAY 05	8.86	JUL 20	9.31
WATER YEAR 2004 HIGHEST		8.11	JAN 21, 2004 LOWEST		9.31	JUL 20, 2004	



NORTHAMPTON COUNTY—Continued

372705075555901. Local number, 63H 4 SOW 103C.

LOCATION.--Lat 37°27'06", long 75°55'58", NAD83, Hydrologic Unit 02080109, 0.2 mi north of State Highway 619, 0.5 mi northwest of intersection of State Highways 619 and 622, and 0.5 mi northwest of Bridgetown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 235 ft, screened 225 to 235 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum prior to Mar 1, 1988; 0.8 ft thereafter.

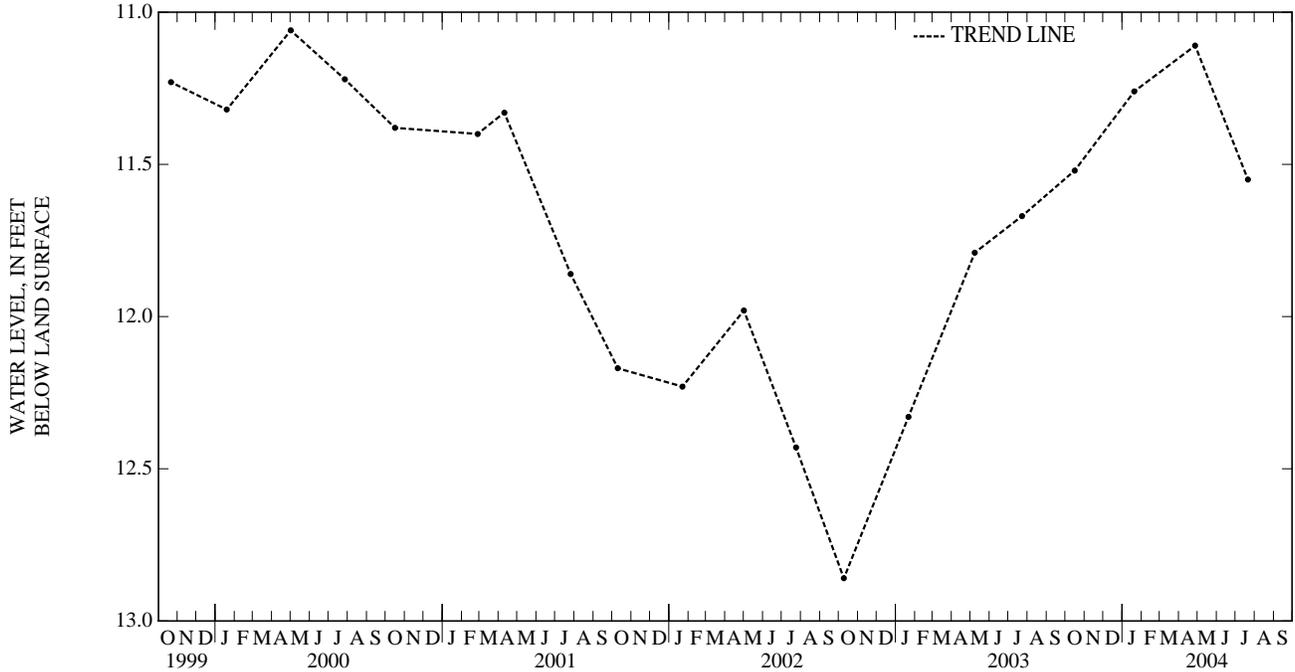
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in file of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.15 ft below land-surface datum, May 1, 1979; lowest measured, 12.86 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	11.52	JAN 20	11.26	APR 27	11.11	JUL 21	11.55
WATER YEAR 2004 HIGHEST		11.11	APR 27, 2004 LOWEST		11.55	JUL 21, 2004	



GROUND-WATER LEVELS
NORTHAMPTON COUNTY—Continued

372705075555902. Local number, 63H 5 SOW 103B.

LOCATION.--Lat 37°27'05", long 75°55'58", NAD83, Hydrologic Unit 02080109, 0.2 mi north of State Highway 619, 0.5 mi northwest of intersection of State Highways 619 and 622, and 0.5 mi northwest of Bridgetown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 132 ft, screened 122 to 132 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.55 ft above land-surface datum prior to Mar. 1, 1988; 1.25 ft thereafter.

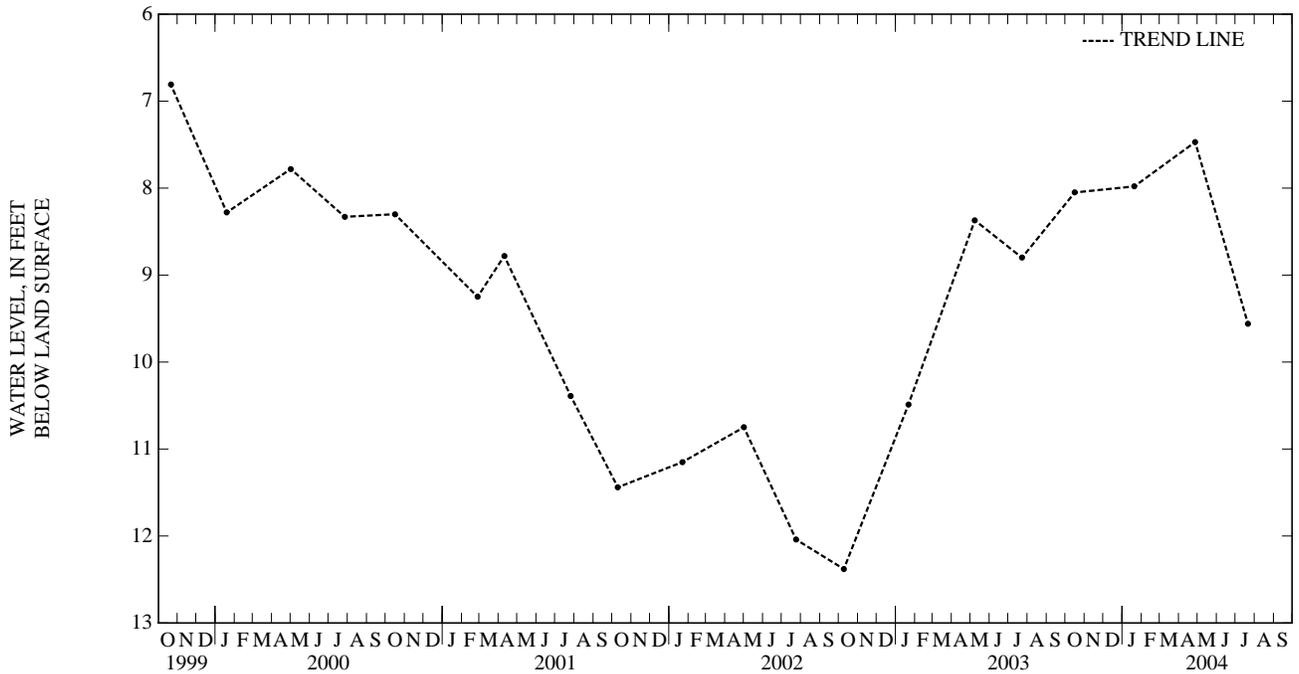
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--October 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.81 ft below land-surface datum, Oct. 21, 1999; lowest measured, 12.38 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	8.05	JAN 20	7.98	APR 27	7.47	JUL 21	9.56
WATER YEAR 2004 HIGHEST		7.47	APR 27, 2004 LOWEST		9.56	JUL 21, 2004	



GROUND-WATER LEVELS
NORTHAMPTON COUNTY—Continued

373230075541001. Local number, 63J 1 SOW 113A.

LOCATION.--Lat 37°32'16", long 75°54'06", NAD83, Hydrologic Unit 02080109, 0.15 mi north of State Highway 183, 0.4 mi east of intersection of State Highways 183 and 611, and 1.3 mi west of Wardtown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 120 ft, screened 110 to 120 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 22 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.32 ft above land-surface datum prior to Oct. 6, 1988; 1.5 ft thereafter.

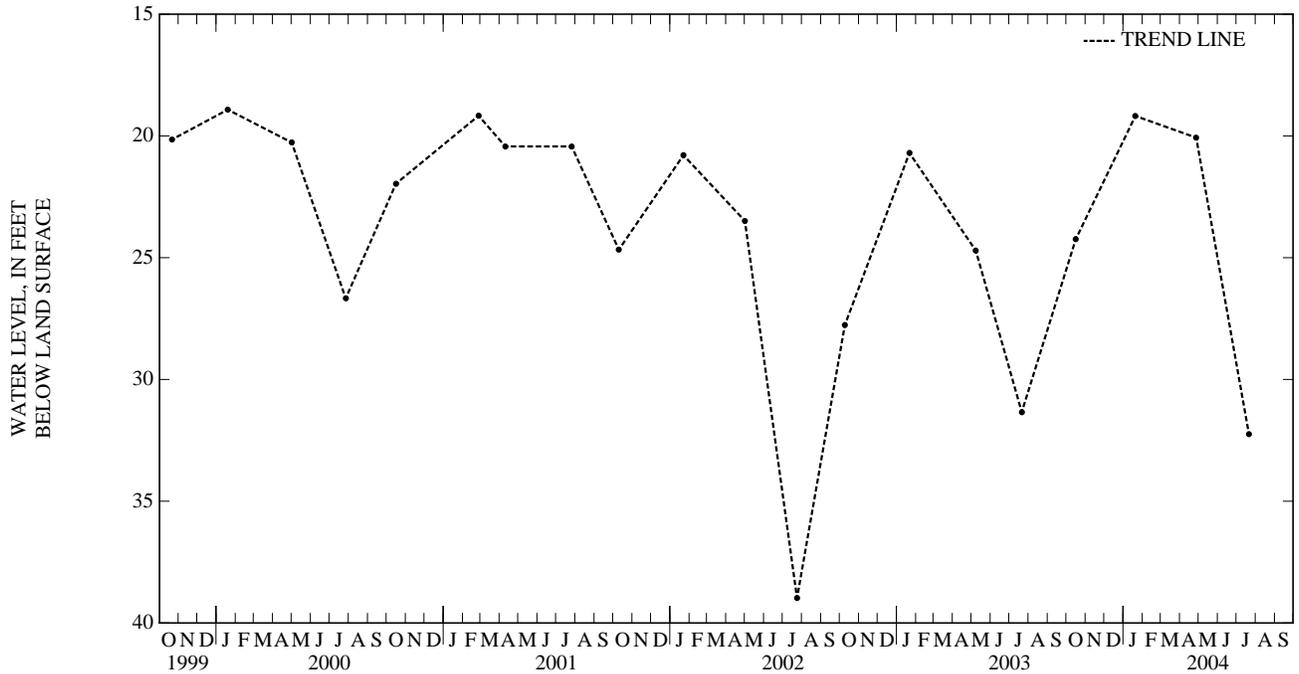
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.79 ft below land-surface datum, Apr. 21, 1983; lowest measured, 38.98 ft below land-surface datum, July 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	24.24	JAN 20	19.18	APR 27	20.07	JUL 21	32.25
WATER YEAR 2004 HIGHEST		19.18	JAN 20, 2004		LOWEST	32.25	JUL 21, 2004



NORTHAMPTON COUNTY—Continued

373230075541002. Local number, 63J 2 SOW 113B.

LOCATION.--Lat 37°32'16", long 75°54'06", NAD83, Hydrologic Unit 02080109, 0.15 mi north of State Highway 183, 0.40 mi east of intersection of State Highways 183 and 611, and 1.3 mi west of Wardtown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 225 ft, screened 215 to 225 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 22 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.52 ft above land-surface datum prior to Oct. 6, 1988; 1.3 ft thereafter.

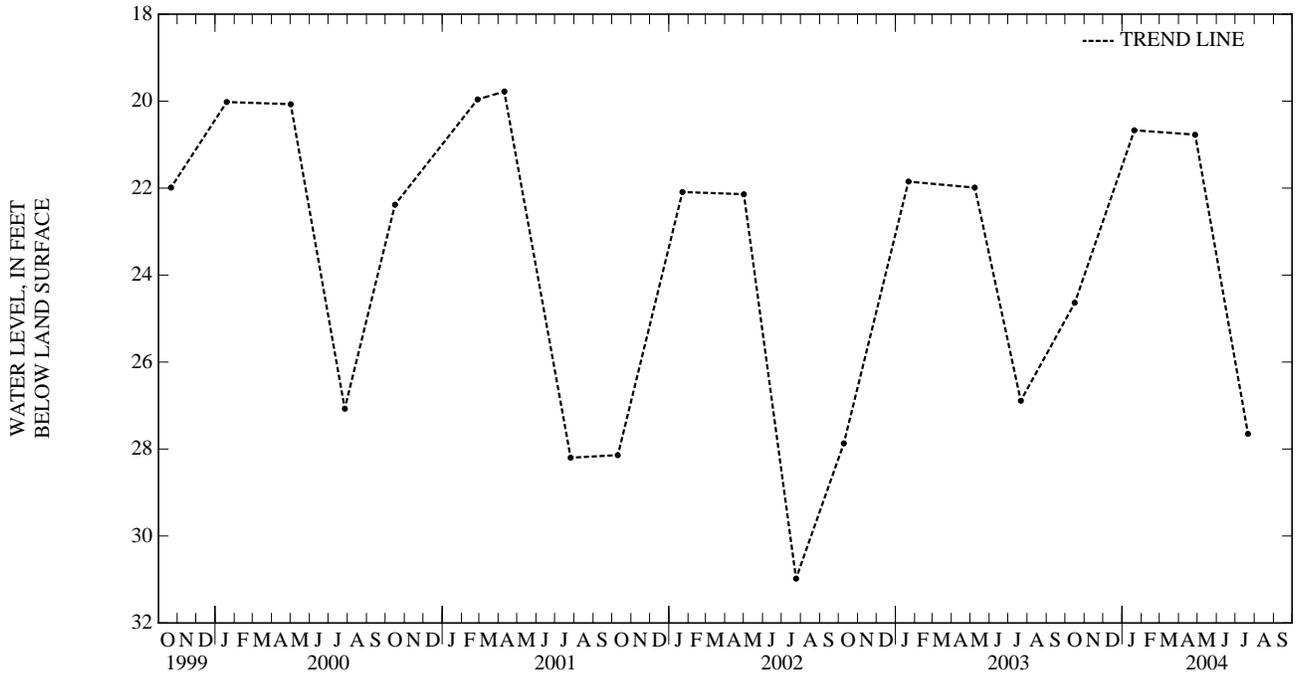
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.20 ft below land-surface datum, Apr. 21, 1983; lowest measured, 30.98 ft below land-surface datum, July 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	24.64	JAN 20	20.67	APR 27	20.77	JUL 21	27.65
WATER YEAR 2004 HIGHEST		20.67	JAN 20, 2004 LOWEST		27.65	JUL 21, 2004	



GROUND-WATER LEVELS
NORTHAMPTON COUNTY—Continued

373230075541003. Local number, 63J 3 SOW 113C.

LOCATION.--Lat 37°32'16", long 75°54'06", NAD83, Hydrologic Unit 02080109, 0.15 mi north of State Highway 183, 0.4 mi east of intersection of State Highways 183 and 611, and 1.3 mi west of Wardtown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 290 ft, screened 280 to 290 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 20, 1995, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 22 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.44 ft above land-surface datum.

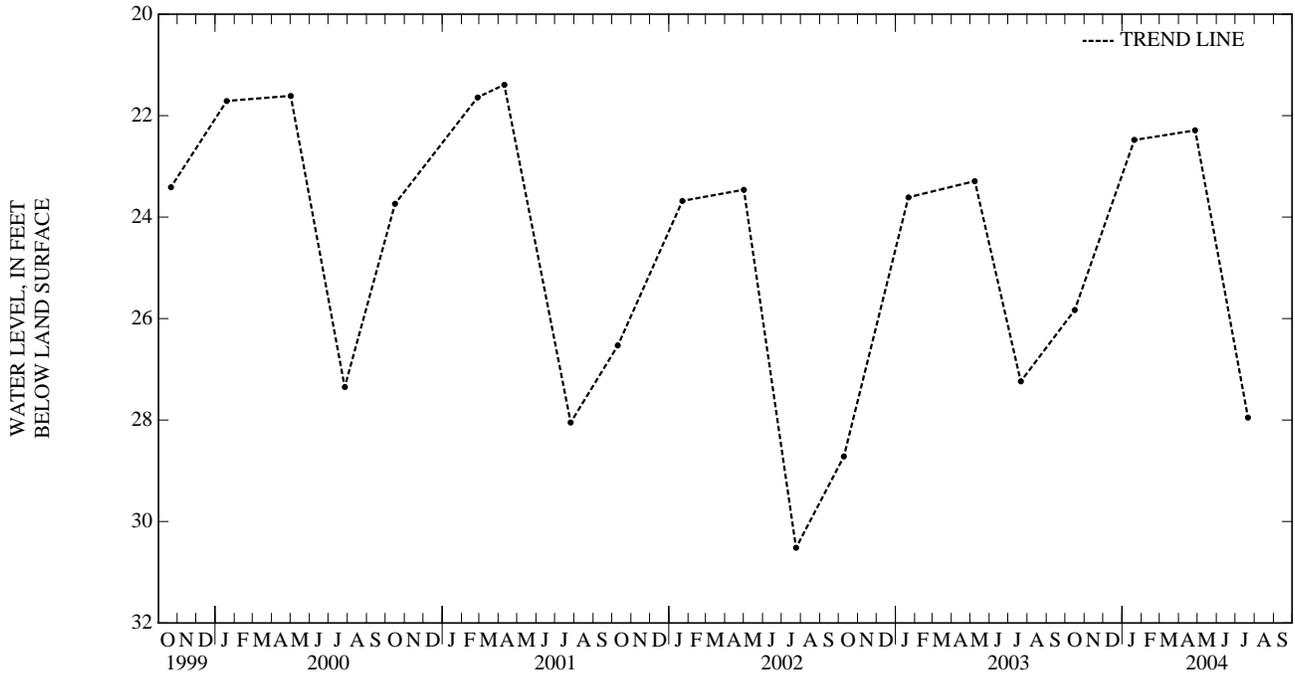
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1981 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.26 ft below land-surface datum, Apr. 21, 1983; lowest measured, 30.52 ft below land-surface datum, July 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	25.83	JAN 20	22.48	APR 27	22.29	JUL 21	27.95
WATER YEAR 2004 HIGHEST		22.29	APR 27, 2004 LOWEST		27.95	JUL 21, 2004	



NORTHAMPTON COUNTY—Continued

373059075484501. Local number, 64J 9 SOW 112A.

LOCATION.--Lat 37°30'59", long 75°48'44", NAD83, Hydrologic Unit 02080109, 100 ft northeast of State Highway 660, 0.3 mi southeast of intersection of State Highways 660 and 600, and 0.3 mi west of Willis Wharf. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 135 ft, screened 125 to 135 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 30 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum prior to Feb. 29, 1988; 0.7 ft thereafter.

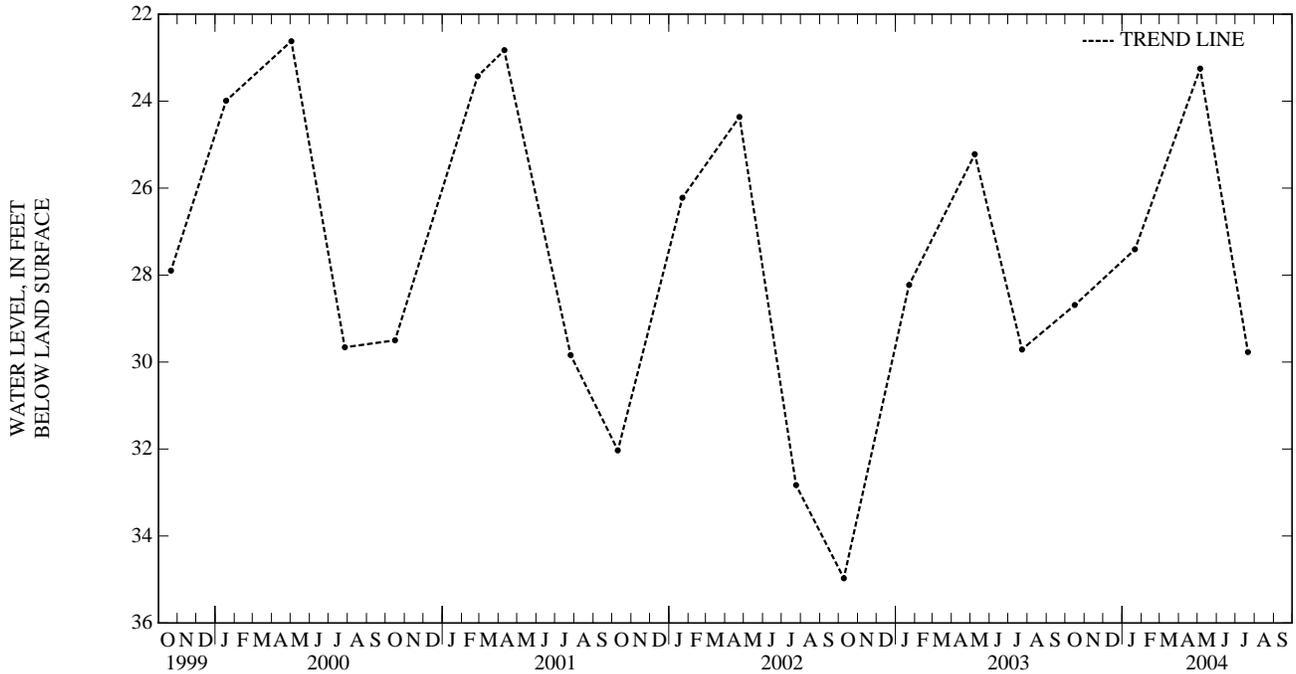
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.19 ft below land-surface datum, Feb. 22, 1993; lowest measured, 34.97 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	28.69	JAN 21	27.41	MAY 05	23.25	JUL 21	29.77
WATER YEAR 2004 HIGHEST		23.25	MAY 05, 2004 LOWEST		29.77	JUL 21, 2004	



GROUND-WATER LEVELS
NORTHAMPTON COUNTY—Continued

373059075484502. Local number, 64J 10 SOW 112B.

LOCATION.--Lat 37°30'59", long 75°48'44", NAD83, Hydrologic Unit 02080109, 100 ft northeast of State Highway 660, 0.3 mi southeast of intersection of State Highways 600 and 660, and 0.3 mi west of Willis Wharf. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 210 ft, screened 200 to 210 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 5, 1985 to Oct. 23, 1995, continuous strip-chart recorder. Prior to Oct. 5, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 30 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.5 ft above land-surface datum prior to Aug. 12, 1987; 1.6 ft thereafter.

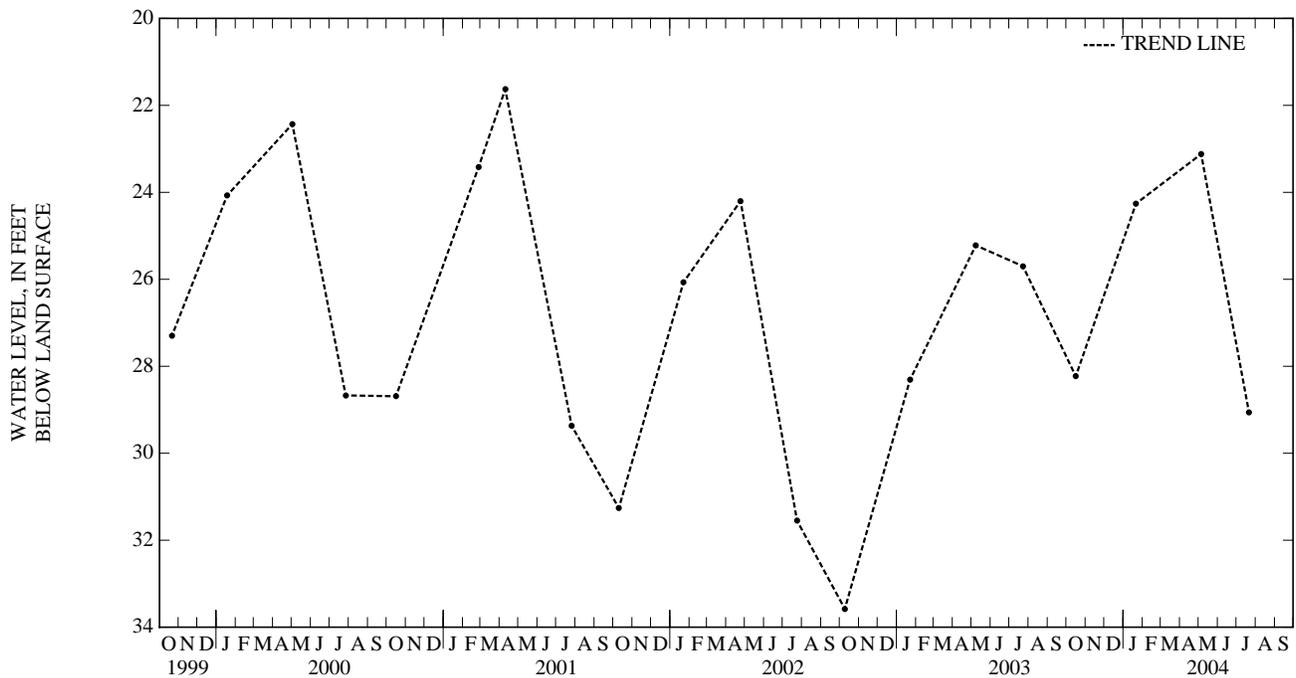
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by tidal effects and local pumpage.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 20.42 ft below land-surface datum, Mar. 13, 1993; lowest measured, 33.58 ft below land-surface datum, Oct. 9, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	28.23	JAN 21	24.26	MAY 05	23.12	JUL 21	29.06
WATER YEAR 2004 HIGHEST		23.12	MAY 05, 2004 LOWEST		29.06	JUL 21, 2004	



NORTHAMPTON COUNTY—Continued

373059075484503. Local number, 64J 11 SOW 112C.

LOCATION.--Lat 37°30'59", long 75°48'44", NAD83, Hydrologic Unit 02080109, 100 ft northeast of State Highway 660, 0.3 mi southeast of intersection of State Highways 600 and 660, and 0.3 mi west of Willis Wharf. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 313 ft, screened 303 to 313 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 30, 1985, to July 24, 1995, bimonthly measurement with chalked tape. Prior to Sept. 30, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 30 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.4 ft above land-surface datum prior to Apr. 27, 1987; 0.65 ft thereafter.

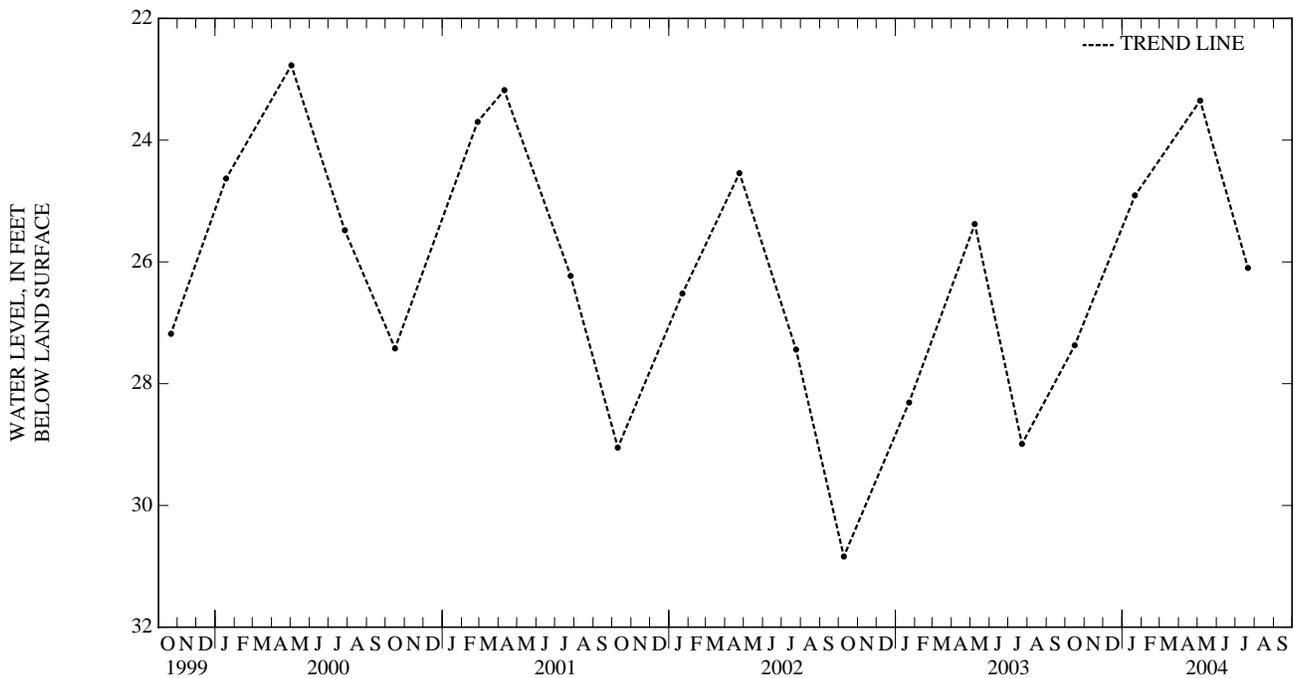
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by tidal effects and local pumpage.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.78 ft below land-surface datum, Mar. 29, 1984; lowest measured, 35.70 ft below land-surface datum, Dec. 5, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	27.37	JAN 21	24.91	MAY 05	23.35	JUL 21	26.10
WATER YEAR 2004 HIGHEST		23.35	MAY 05, 2004 LOWEST		27.37	OCT 16, 2003	



GROUND-WATER LEVELS

ORANGE COUNTY

381002078094201. Local number, 45P 1 SOW 030.

LOCATION.--Lat 38°10'02", long 78°09'41", NAD83, Hydrologic Unit 02080106, off U.S. Highway 15, 2.3 mi north of Gordonsville. Owner: M. L. Johnson.

AQUIFER.--Phyllite of Evington Group of Precambrian or Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 98 ft, length of casing unknown.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Oct. 31, 1995 to Mar. 10, 2004, occasional measurement with chalked taped by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 31, 1995, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 480 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.40 ft above land-surface datum prior to June 27, 1996; 1.90 ft. June 27, 1996 to Mar. 10, 2004; top of recorder shelf, 2.00 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--February 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.83 ft below land-surface datum, Apr. 10, 1973; lowest recorded, 38.97 ft below land-surface datum, Aug. 27, 2002.

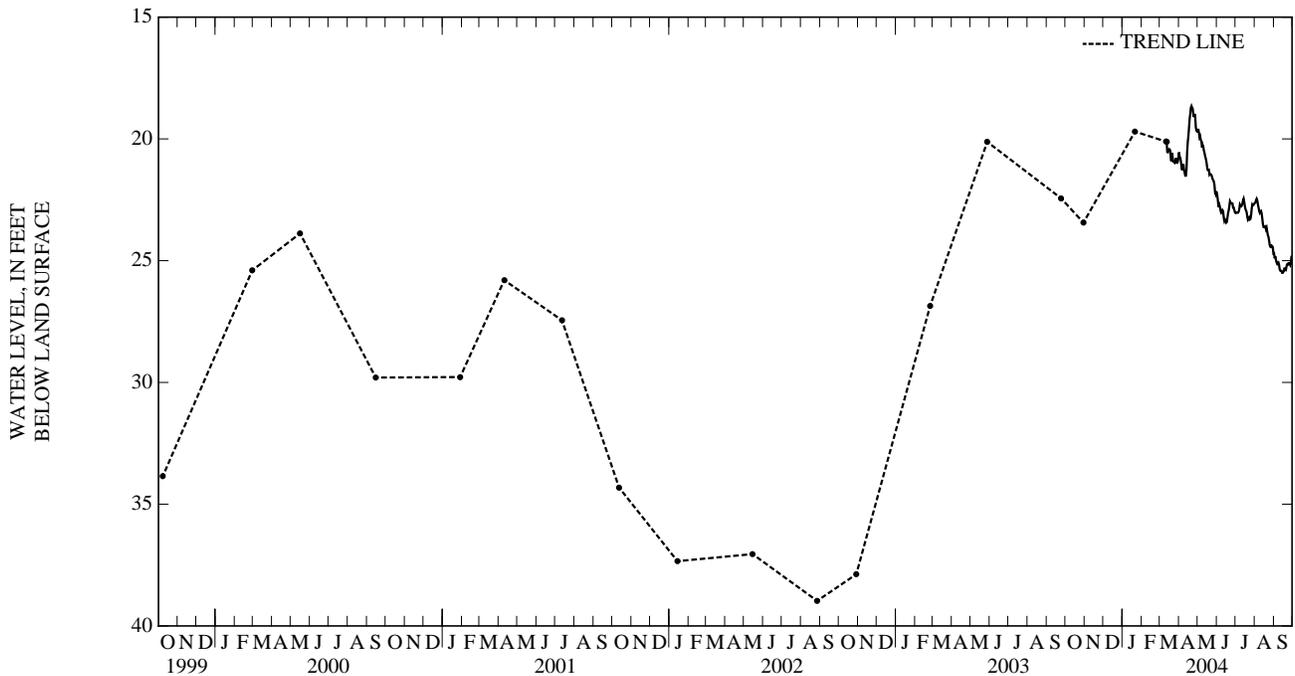
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 18.50 ft below land-surface datum, Apr. 21; lowest instantaneous water level, 25.50 ft below land-surface datum, Sept. 14, 15.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	21.16	19.89	22.72	23.03	22.53	25.07
10	---	---	---	---	---	---	21.39	20.32	22.93	22.77	22.98	25.35
15	---	---	---	---	---	20.45	20.12	20.93	23.36	22.60	23.61	25.50
20	---	---	---	---	---	20.89	18.72	21.47	22.93	23.21	23.65	25.39
25	---	---	---	---	---	20.98	19.10	21.65	22.65	23.29	24.36	25.11
EOM	---	---	---	---	---	20.77	19.69	22.15	23.02	22.66	24.71	24.81

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	23.44	JAN 21	19.70	APR 15	20.05	JUN 09	23.00
WATER YEAR 2004 HIGHEST		19.70 JAN 21, 2004		LOWEST		23.44 OCT 30, 2003	



PATRICK COUNTY

364732080070301. Local number, 30C 1 SOW 010.

LOCATION.--Lat 36°47'32", long 80°07'02", NAD83, Hydrologic Unit 03010103, 300 ft west of State Highway 623, 1.0 mi northeast of intersection of State Highways 57 and 623, and 6.2 mi west of Philpott. Owner: Commonwealth of Virginia.

AQUIFER.--Lynchburg Group of Late Proterozoic age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6.25 in., depth 250 ft, cased to 9 ft, open hole 9 to 250 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Oct. 1, 1996 to Oct. 1, 1999, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to Oct. 1, 1996, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

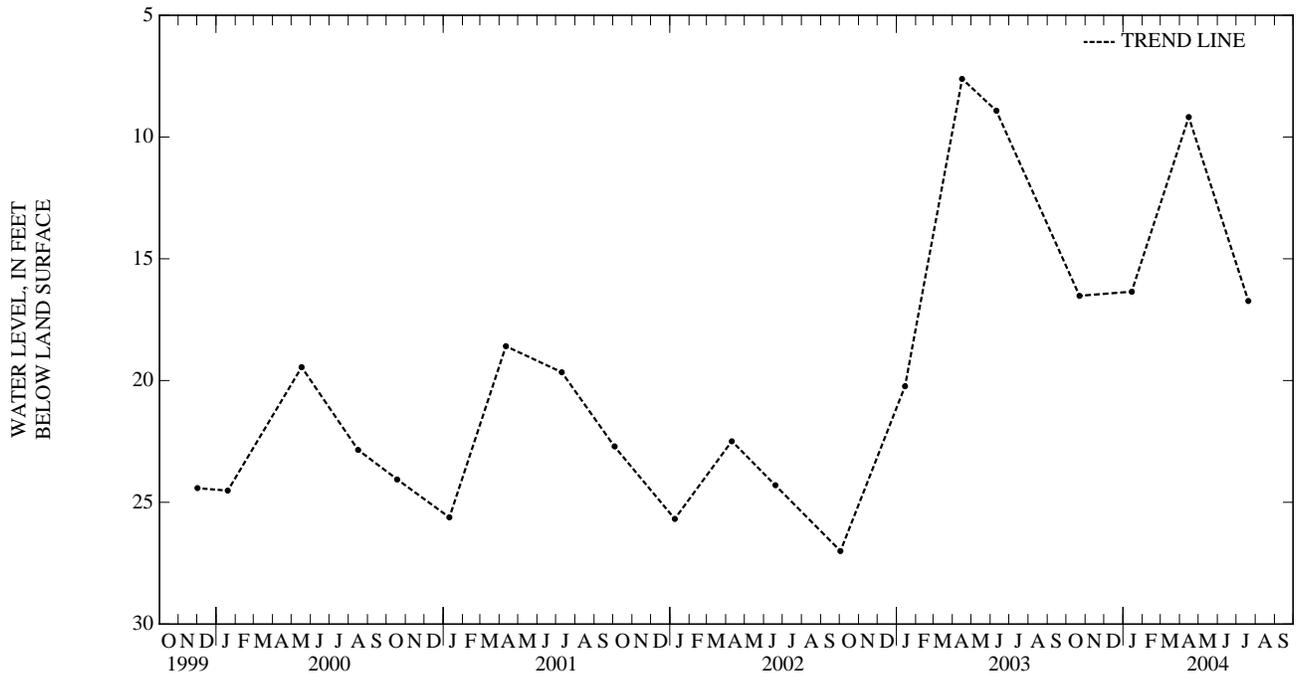
DATUM.--Elevation of land-surface datum is 1,060 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--May 1966 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.98 ft below land-surface datum, Mar. 23, 1993; lowest measured, 27.00 ft below land-surface datum, Oct. 2, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	16.52	JAN 14	16.35	APR 15	9.18	JUL 20	16.73
WATER YEAR 2004 HIGHEST		9.18	APR 15, 2004 LOWEST		16.73	JUL 20, 2004	



GROUND-WATER LEVELS

CITY OF PORTSMOUTH

365115076191701. Local number, 60C 7 SOW 194.

LOCATION.--Lat 36°51'15.99", long 76°19'14.03", NAD83, Hydrologic Unit 02080208, 1.2 mi. southeast of Lovett Point and 580 ft northwest of the southern Midtown tunnel entrance. Owner: Portsmouth Marine Terminal.

AQUIFER.--Upper Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 18 in., 0 to 745 ft, diameter 8 in., 700 to 855 ft, depth 855 ft, screened 750 to 850 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--November 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 84.91 ft below land-surface datum, Nov. 1, 2001; lowest measured, 90.66 ft below land-surface datum, July 15, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

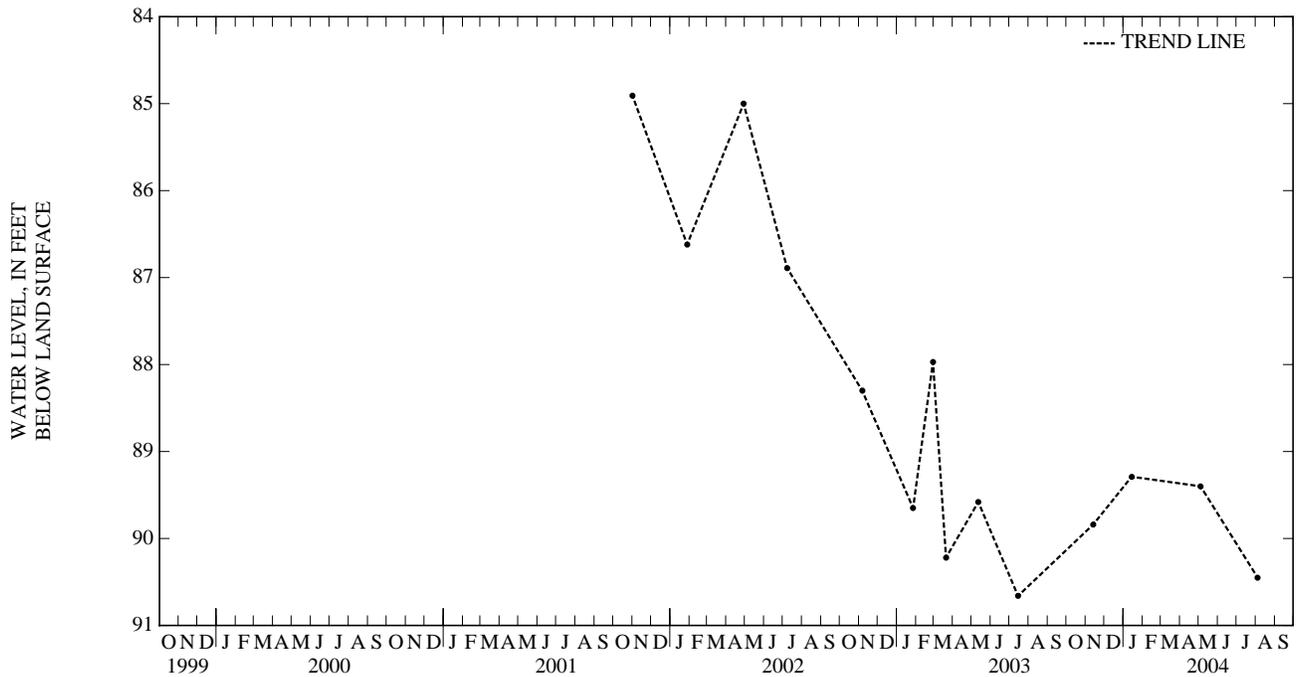
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	84.91	JAN 28	86.62	APR 29	85.00	JUL 08	86.89
WATER YEAR 2002 HIGHEST 84.91 NOV 01, 2001		LOWEST 86.89 JUL 08, 2002					

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06	88.30	FEB 28	87.97	MAY 12	89.58	JUL 15	90.66
JAN 27	89.65	MAR 21	90.22				
WATER YEAR 2003 HIGHEST 87.97 FEB 28, 2003		LOWEST 90.66 JUL 15, 2003					

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	89.84	JAN 14	89.29	MAY 04	89.40	AUG 04	90.45
WATER YEAR 2004 HIGHEST 89.29 JAN 14, 2004		LOWEST 90.45 AUG 04, 2004					



CITY OF PORTSMOUTH—Continued

364823076181501. Local number, 60C 27.

LOCATION.--Lat 36°48'24", long 76°18'14", NAD83, Hydrologic Unit 02080208, 100 ft east of State Highway 239 (Victory Boulevard), 0.1 mi south of the intersection of State Highway 239 (Victory Boulevard) and State Highway 337 (Elem Avenue) in Portsmouth. Owner: U.S. Department of the Navy.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 908 ft, screened 903 to 908 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 18 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum.

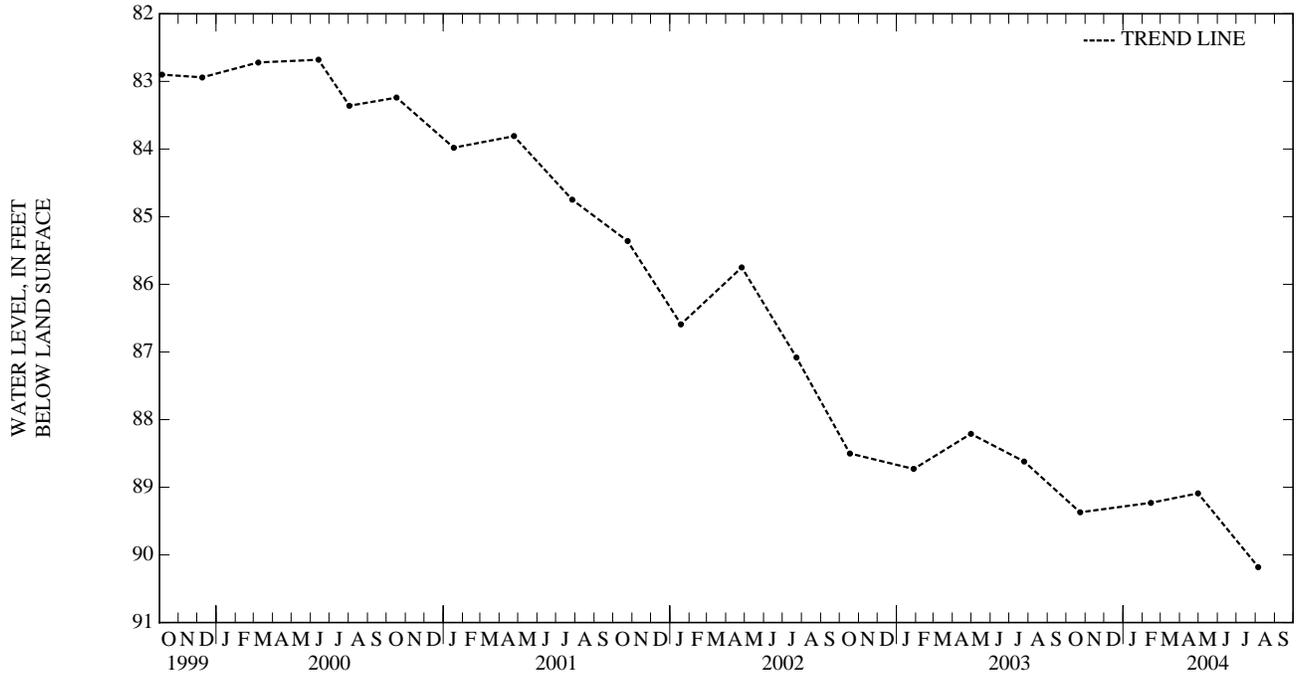
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1985 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.65 ft below land-surface datum, June 19, 1985; lowest measured, 90.18 ft below land-surface datum, Aug. 5, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	89.37	FEB 14	89.23	APR 30	89.09	AUG 05	90.18
WATER YEAR 2004 HIGHEST		89.09	APR 30, 2004 LOWEST		90.18	AUG 05, 2004	



GROUND-WATER LEVELS
CITY OF PORTSMOUTH—Continued

365313076215101. Local number, 60D 2.

LOCATION.--Lat 36°53'14", long 76°21'50", NAD83, Hydrologic Unit 02080208, 1.1 mi east of the main gate of the U.S. Naval Supply Center on Main Street in Building 285, 2.0 mi northwest of West Norfolk in Portsmouth, and 2.25 mi north of the intersection of U.S. Highway 17 and Cedar Lane (Craney Island Road). Owner: U.S. Department of the Navy.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in. 0 to 170 ft, diameter 4 in. from 170 to 565 ft, depth 565 ft, screened 545 to 565 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

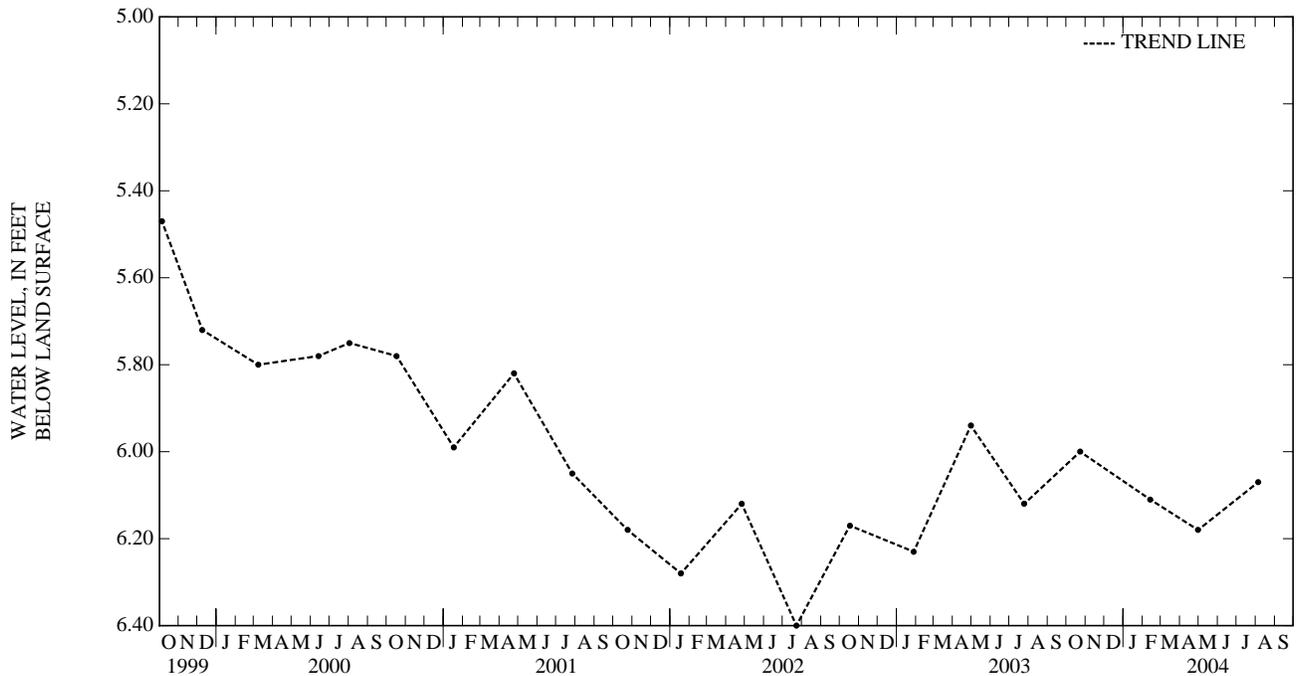
DATUM.--Elevation of land-surface datum is 12 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

PERIOD OF RECORD.--January 1984 to current year. Unpublished records available prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.01 ft below land-surface datum, Sept. 18, 1985; lowest measured, 6.40 ft below land-surface datum, July 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	6.00	FEB 13	6.11	APR 30	6.18	AUG 05	6.07
WATER YEAR 2004 HIGHEST		6.00	OCT 23, 2003 LOWEST		6.18	APR 30, 2004	



GROUND-WATER LEVELS
PRINCE GEORGE COUNTY

370501077214401. Local number, 52E 2.

LOCATION.--Lat 37°05'02", long 77°21'43", NAD83, Hydrologic Unit 03010201, at Virginia Department of Transportation - Carson Area Headquarters, 1500 ft west of intersection of State Highway 35 and Interstate 95. Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 69.47 ft, screened 64.47 ft to 69.47 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1998 to Oct. 1, 1999, occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1998, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 140 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum prior to Dec. 23, 1998; 1.08 ft thereafter.

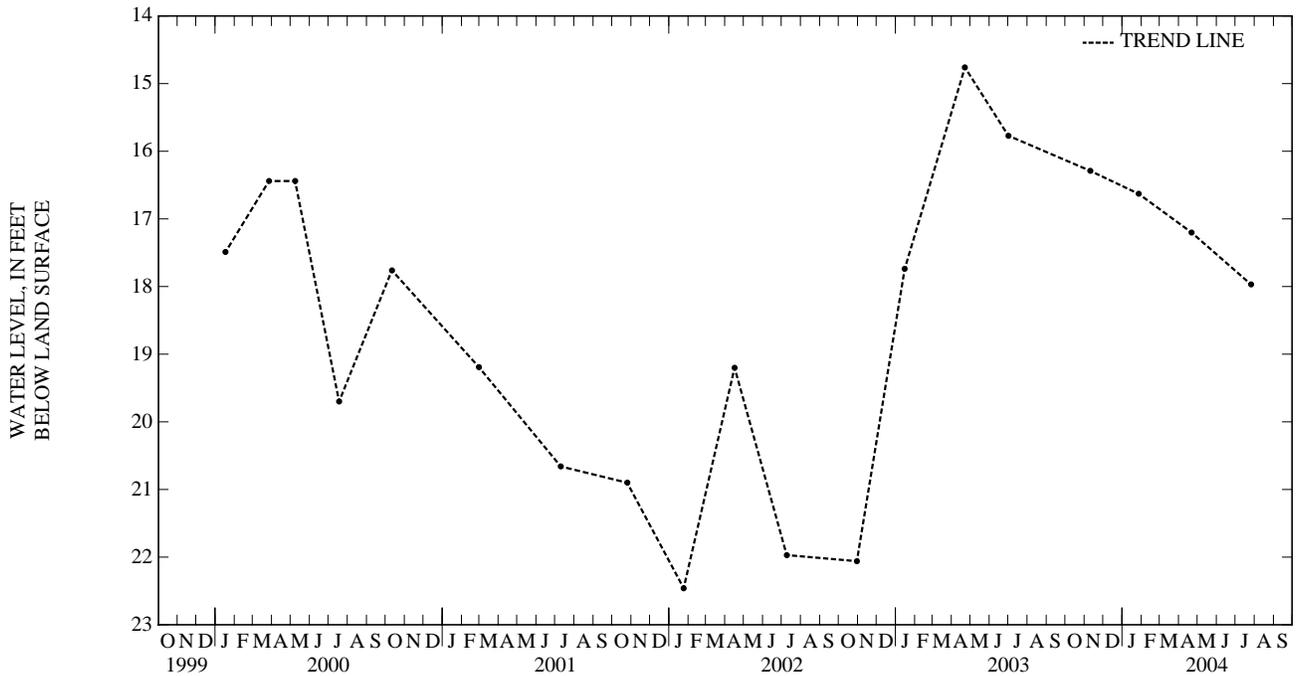
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--May 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.76 ft below land-surface datum, Apr. 22, 2003; lowest measured, 23.26 ft below land-surface datum, Dec. 23, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	16.29	JAN 27	16.63	APR 21	17.20	JUL 26	17.97
WATER YEAR 2004 HIGHEST		16.29 NOV 10, 2003		LOWEST		17.97 JUL 26, 2004	



GROUND-WATER LEVELS

PRINCE GEORGE COUNTY—Continued

371315077171901. Local number, 52F 1 SOW 038.

LOCATION.--Lat 37°13'16", long 77°17'18", NAD83, Hydrologic Unit 03010202, 0.1 mi north of State Highway 106 in Prince George. Owner: Prince George County.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 180 ft, cased to 170 ft, open hole 170 to 180 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 10, 1985, to July 10, 1995, bimonthly measurement with chalked tape. May 25, 1974, to Oct. 9, 1985, occasional measurement with chalked tape. Jan. 31, 1971, to May 25, 1974, continuous strip-chart recorder. Prior to Jan. 31, 1971, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 132 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 3.4 ft above land-surface datum.

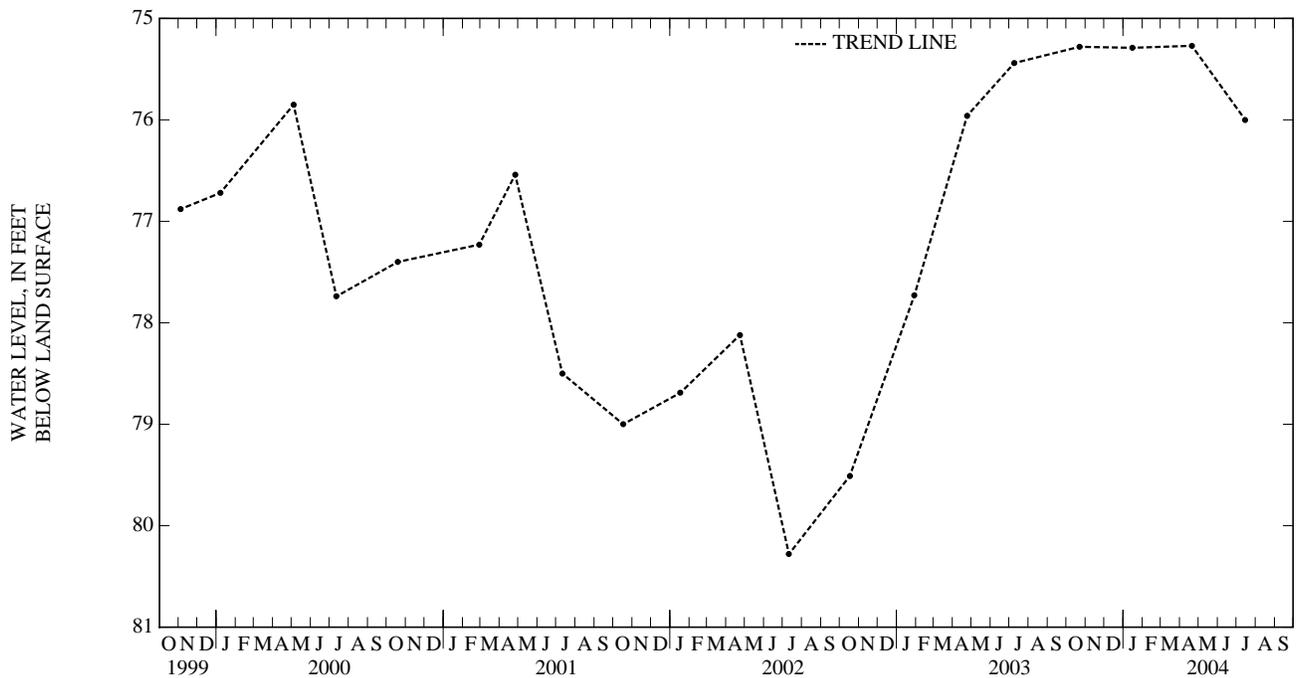
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1970 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.32 ft below land-surface datum, Feb. 4, 1980; lowest measured, 80.28 ft below land-surface datum, July 11, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	75.28	JAN 15	75.29	APR 20	75.27	JUL 15	76.00
WATER YEAR 2004 HIGHEST		75.27 APR 20, 2004		LOWEST		76.00 JUL 15, 2004	



PRINCE WILLIAM COUNTY

384931077420301. Local number, 49U 1.

LOCATION.--Lat 38°49'30", long 77°42'07", NAD83, Hydrologic Unit 02070010, 500 ft north of State Highway 55, 0.8 mi east of Thoroughfare Gap, and 3.7 mi west of Haymarket. Owner: Virginia Department of Transportation.

AQUIFER.--Waterfall Formation of Early Jurassic age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 7 in., depth 345 ft, cased to 20 ft, open hole 20 to 345 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to February 1980, continuous strip-chart recorder.

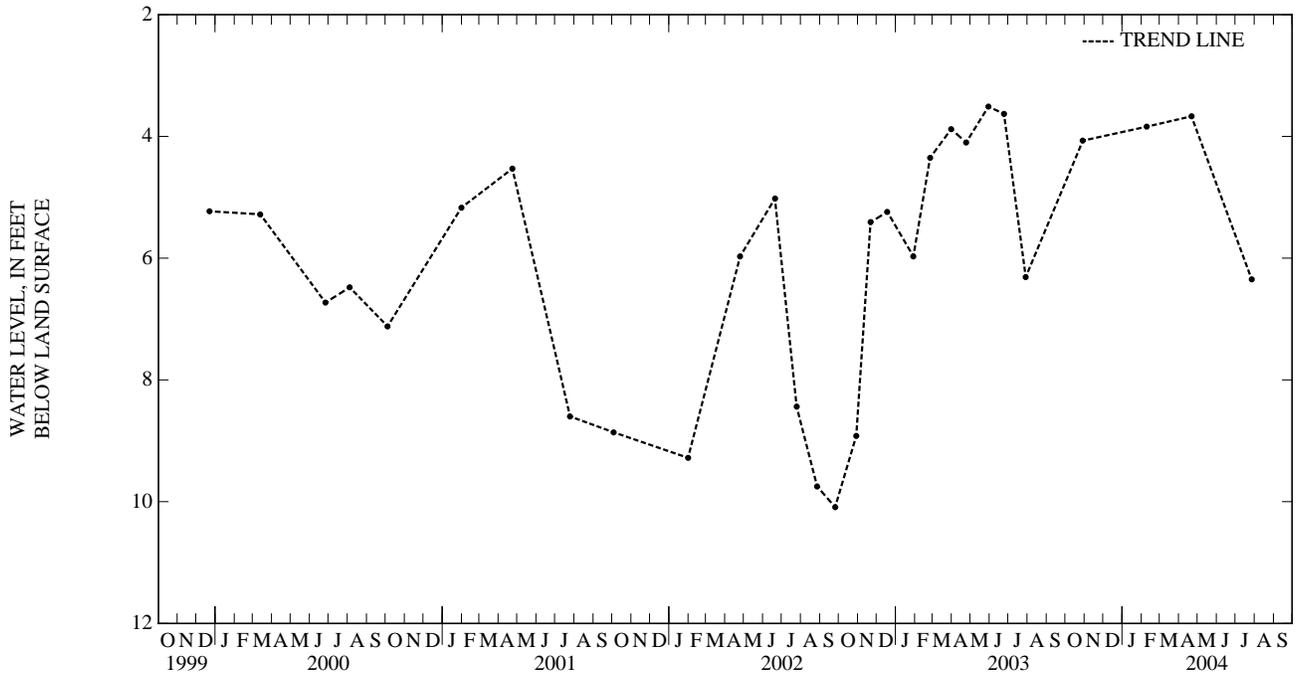
DATUM.--Elevation of land-surface datum is 383 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1968 to current year. Unpublished records available prior to May 1969 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.59 ft below land-surface datum, Mar. 19, 1975; lowest measured, 10.33 ft below land-surface datum, Oct. 14, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	4.07	FEB 09	3.84	APR 21	3.67	JUL 27	6.35
WATER YEAR 2004 HIGHEST		3.67	APR 21, 2004 LOWEST		6.35	JUL 27, 2004	



PRINCE WILLIAM COUNTY—Continued

385607077381101. Local number, 49V 1.

LOCATION.--Lat 38°56'07", long 77°38'10", NAD83, Hydrologic Unit 02070010, near intersection of State Highways 600 and 615, 2.8 mi south of Aldie. Owner: R. Verbofsky.

AQUIFER.--Turkey Run Formation of Early Jurassic age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 7 in., depth 165 ft, cased to 10 ft, open hole 10 to 165 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Oct. 1, 1995 to Sept. 30, 2003, occasional measurement with chalked tape by USGS personnel. June 19, 1979 to Oct. 1, 1995, digital recorder, 60-minute punch. Prior to June 19, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 420 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Sept. 11, 2003; top of 1 inch conduit pipe, 3.29 ft above land-surface datum thereafter. Readings from 1979 to 1981 should be 0.7 ft lower than previously published.

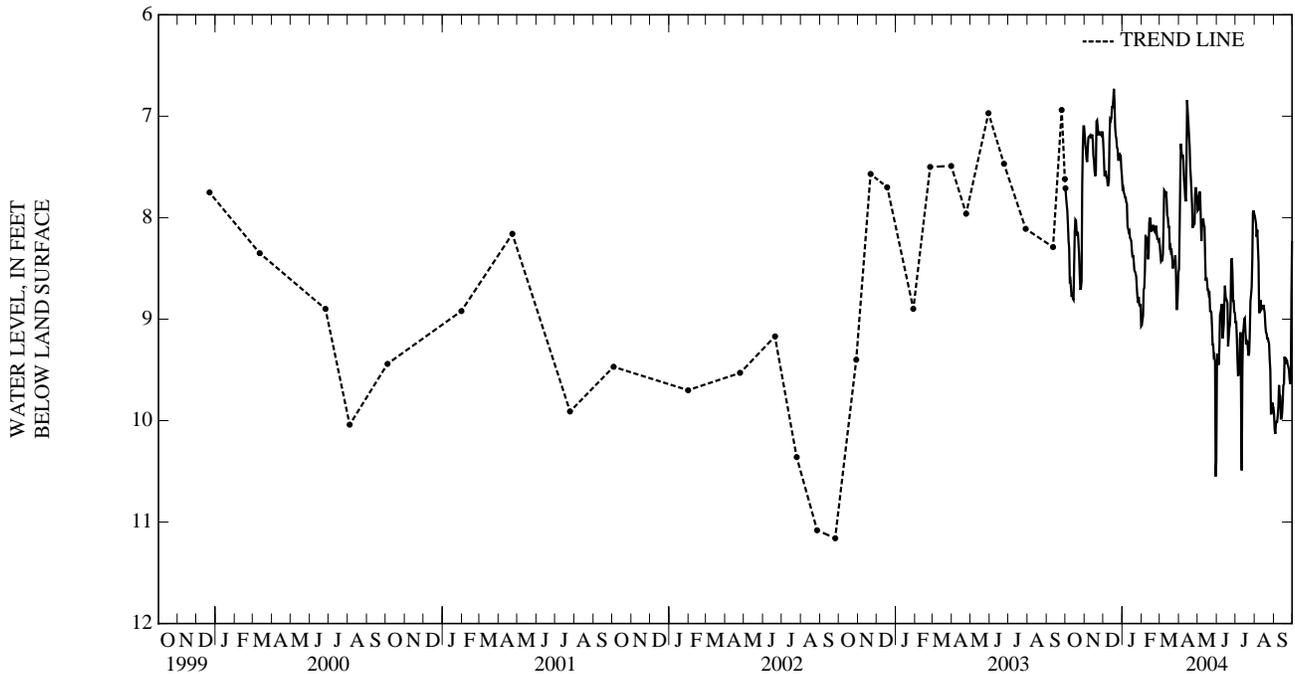
PERIOD OF RECORD.--November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.60 ft below land-surface datum, Dec. 17, 2003; lowest recorded, 13.09 ft below land-surface datum, Sept. 16, 1991.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 6.60 ft below land-surface datum, Dec. 17; lowest instantaneous water level, 10.55 ft below land-surface datum, May 30.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.07	7.45	7.54	7.80	8.69	8.42	7.35	7.78	9.27	9.56	8.12	10.01
10	8.70	7.19	7.63	8.11	8.19	7.79	7.70	8.01	9.19	9.89	8.81	9.74
15	8.46	7.39	6.91	8.23	8.03	8.10	6.96	8.59	8.78	9.00	8.86	9.81
20	8.18	7.05	7.10	8.52	8.08	8.33	7.61	8.75	9.18	9.22	9.14	9.38
25	8.71	7.16	7.43	8.79	8.15	8.42	8.07	9.25	8.40	8.82	9.40	9.50
EOM	7.10	7.17	7.59	9.07	8.22	8.54	7.79	10.40	8.94	7.96	9.87	8.23



PRINCE WILLIAM COUNTY—Continued

383423077245901. Local number, 51S 7.

LOCATION.--Lat 38°34'23", long 77°24'58", NAD83, Hydrologic Unit 02070011, in Prince William Forest Park, 700 ft north of State Highway 619, 0.7 mi southeast of Belfair Crossroads, and 4.6 mi south of Independent Hill. Owner: National Park Service.

AQUIFER.--Lunga Reservoir Formation of Cambrian age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 490 ft, cased to 50 ft, open hole 50 to 490 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Feb. 1, 1996 to Dec. 11, 2003, occasional measurement with chalked tape by USGS personnel. Dec. 21, 1982 to Feb. 1, 1996, digital recorder, 60-minute punch. Prior to Dec. 21, 1982, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 295 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--September 1973 to November 1975, December 1977 to current year. Unpublished records available prior to December 1977 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.00 ft above land-surface datum, Mar. 29, 1994; lowest measured, 16.88 ft below land-surface datum, Oct. 25, 2002.

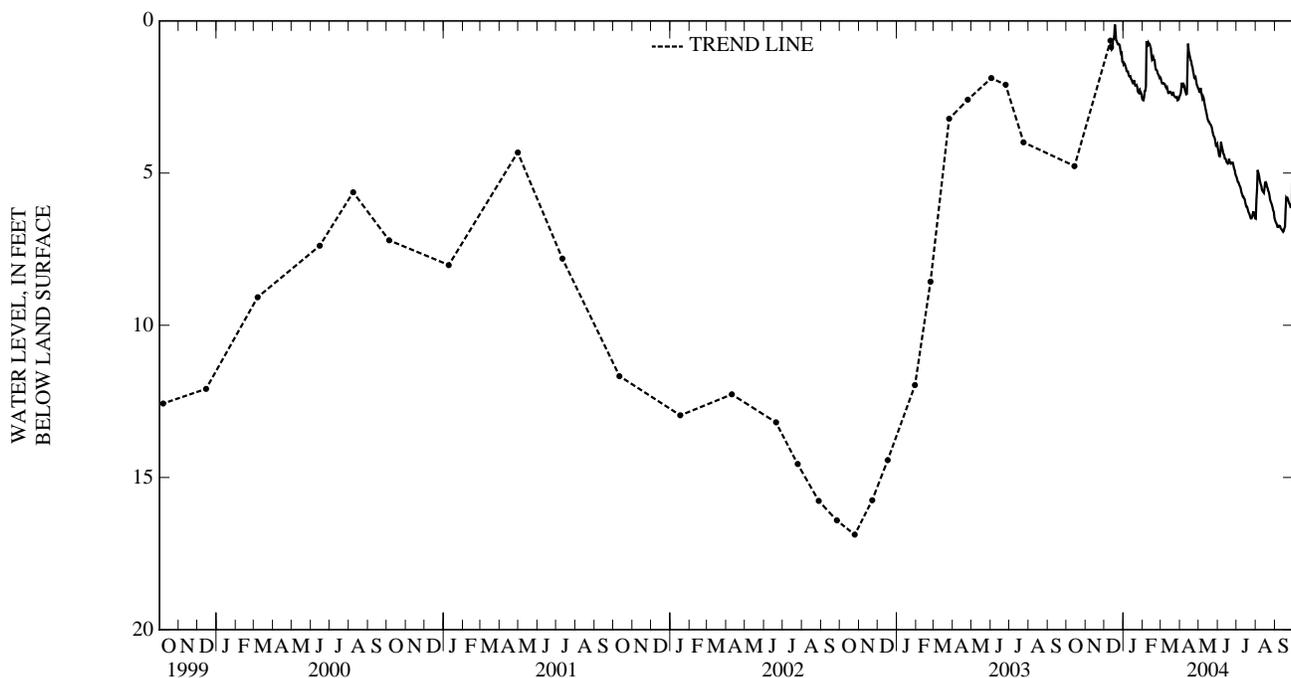
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 0.12 ft above land-surface datum, Dec. 17; lowest instantaneous water level, 6.93 ft below land-surface datum, Sept. 14.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	1.55	2.30	2.04	2.12	2.33	4.34	5.36	4.98	6.77
10	---	---	---	1.82	0.71	2.21	2.34	2.66	4.38	5.70	5.44	6.81
15	---	---	0.61	2.00	1.15	2.35	1.00	3.19	4.64	5.96	5.50	6.90
20	---	---	0.64	2.13	1.29	2.42	1.47	3.40	4.63	6.27	5.49	5.84
25	---	---	0.77	2.35	1.73	2.52	1.89	3.78	4.66	6.49	5.94	6.04
EOM	---	---	1.35	2.56	1.85	2.49	2.21	4.06	5.09	6.49	6.47	5.23

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	4.77	JAN 21	2.09	FEB 25	1.68	JUL 22	6.29
DEC 11	.44	FEB 11	.71	APR 15	.90		
WATER YEAR 2004 HIGHEST .44 DEC 11, 2003		LOWEST 6.29		JUL 22, 2004			



GROUND-WATER LEVELS
 PRINCE WILLIAM COUNTY—Continued

383634077151301. Local number, 52S 4.

LOCATION.--Lat 38°36'34", long 77°15'12", NAD83, Hydrologic Unit 02070010, 193 ft east of Richmond, Fredericksburg, and Potomac (RFP) railroad tracks, 1.1 mi southeast of the intersection of U.S. Highway 1 and State Highway 636 (Featherstone Road), 1.4 mi south of the intersection of State Highway 636 (Featherstone Road) and RFP railroad tracks, and near Woodbridge. Owner: District of Columbia Department of Sanitary Engineering.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 10 in., depth 186 ft, screened 156 to 176 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Aug. 1, 1971, to July 10, 1978, continuous strip-chart recorder. Prior to Aug. 1, 1971, occasional measurement with chalked tape.

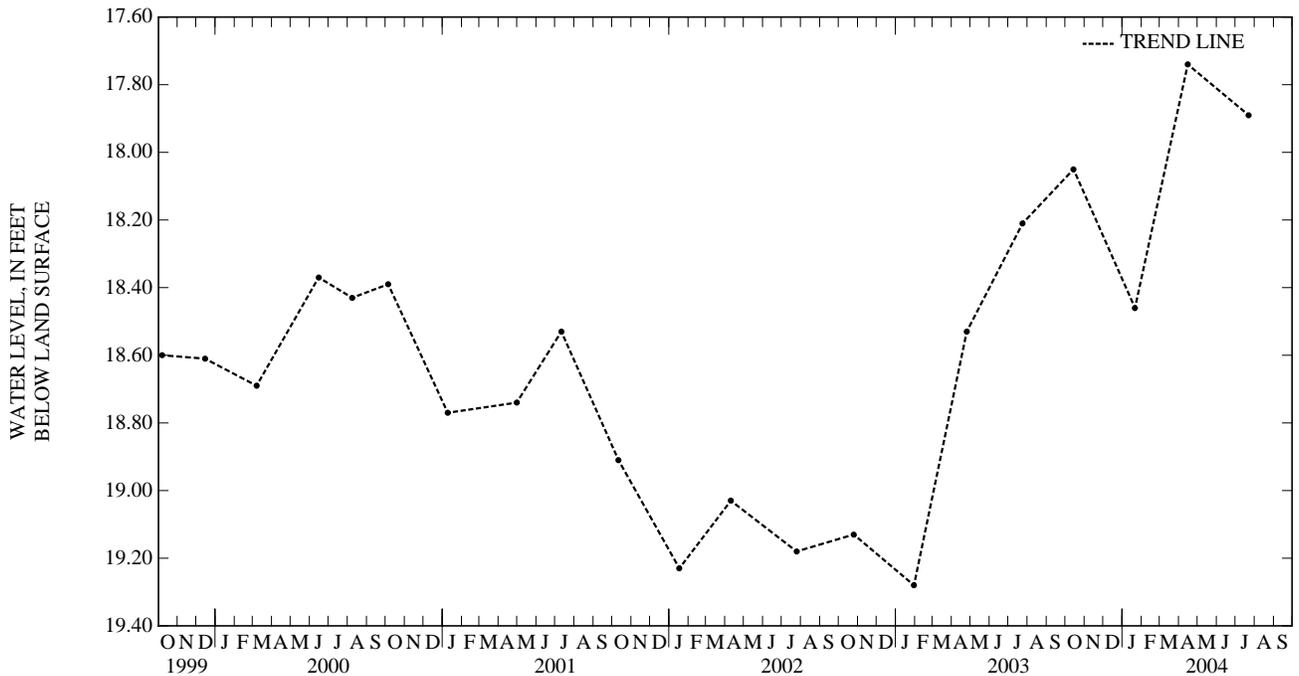
DATUM.--Elevation of land-surface datum is 28 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 3.3 ft above land-surface datum prior to Aug. 28, 1978; 1.9 ft thereafter.

PERIOD OF RECORD.--June 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 17.17 ft below land-surface datum, Apr. 28, 1973; lowest measured, 22.17 ft below land-surface datum, July 1, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	18.05	JAN 21	18.46	APR 15	17.74	JUL 22	17.89
WATER YEAR 2004 HIGHEST		17.74	APR 15, 2004 LOWEST		18.46	JAN 21, 2004	



PRINCE WILLIAM COUNTY—Continued

383830077135502. Local number, 53T 2 SOW 029.

LOCATION.--Lat 38°38'30", long 77°13'54", NAD83, Hydrologic Unit 02070010, at U.S. Army Woodbridge Research Facility, 1.5 mi east of Woodbridge. Owner: U.S. Department of the Army.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in., depth 162 ft, screened 130 to 156 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Oct. 1, 1996 to Sept. 30, 1999, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 25, 1985, to Oct. 1, 1996, bimonthly measurement with chalked tape. Prior to Sept. 25, 1985, occasional measurement with chalked tape.

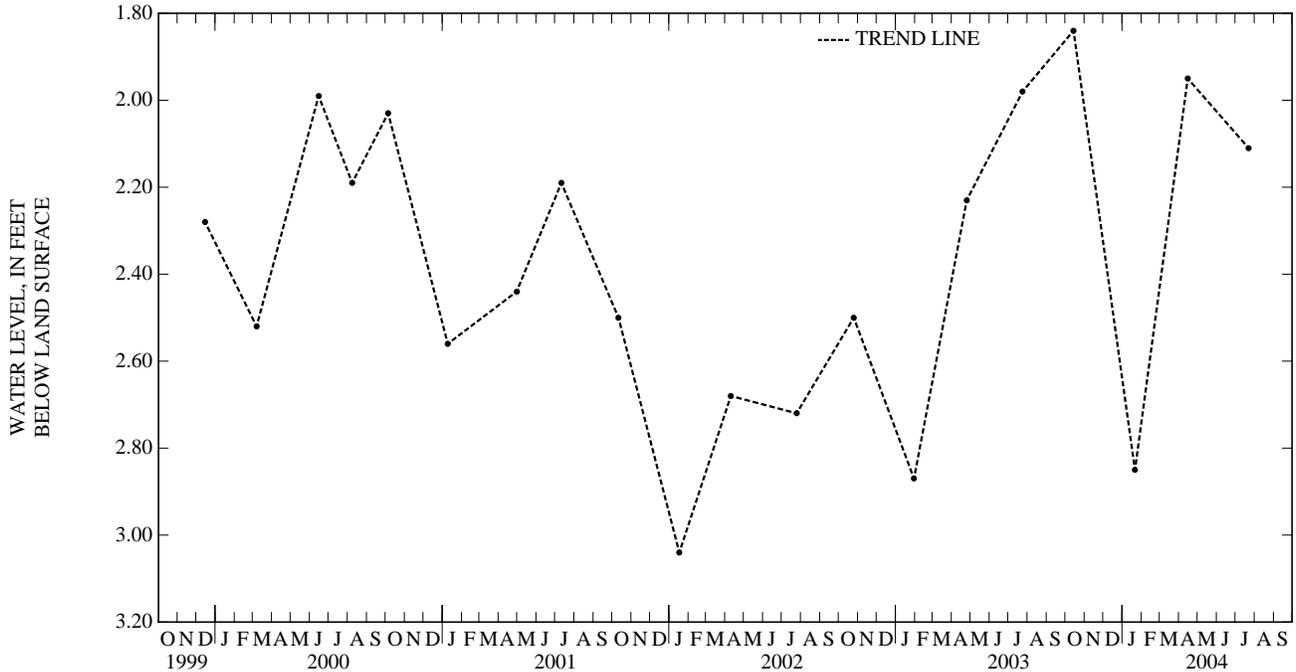
DATUM.--Elevation of land-surface datum is 5 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--March 1970 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.60 ft below land-surface datum, Apr. 4, 1973; lowest measured, 10.35 ft below land-surface datum, Oct. 12, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	1.84	JAN 21	2.85	APR 15	1.95	JUL 22	2.11
WATER YEAR 2004 HIGHEST		1.84	OCT 14, 2003	LOWEST		2.85	JAN 21, 2004



GROUND-WATER LEVELS

PULASKI COUNTY

370254080374401. Local number, 25E 1 SOW 009.

LOCATION.--Lat 37°02'54", long 80°37'43", NAD83, Hydrologic Unit 05050001, 300 ft east of State Highway 100, 0.3 mi south of intersection of State Highways 682 and 700, and 1.1 mi south of Dublin. Owner: Commonwealth of Virginia.

AQUIFER.--Elbrook Formation of Middle to Late Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 318 ft, cased to 56 ft, open hole 56 to 318 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to Oct. 1, 1996, bimonthly measurement with chalked tape. Prior to Oct. 1, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 1,880 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum.

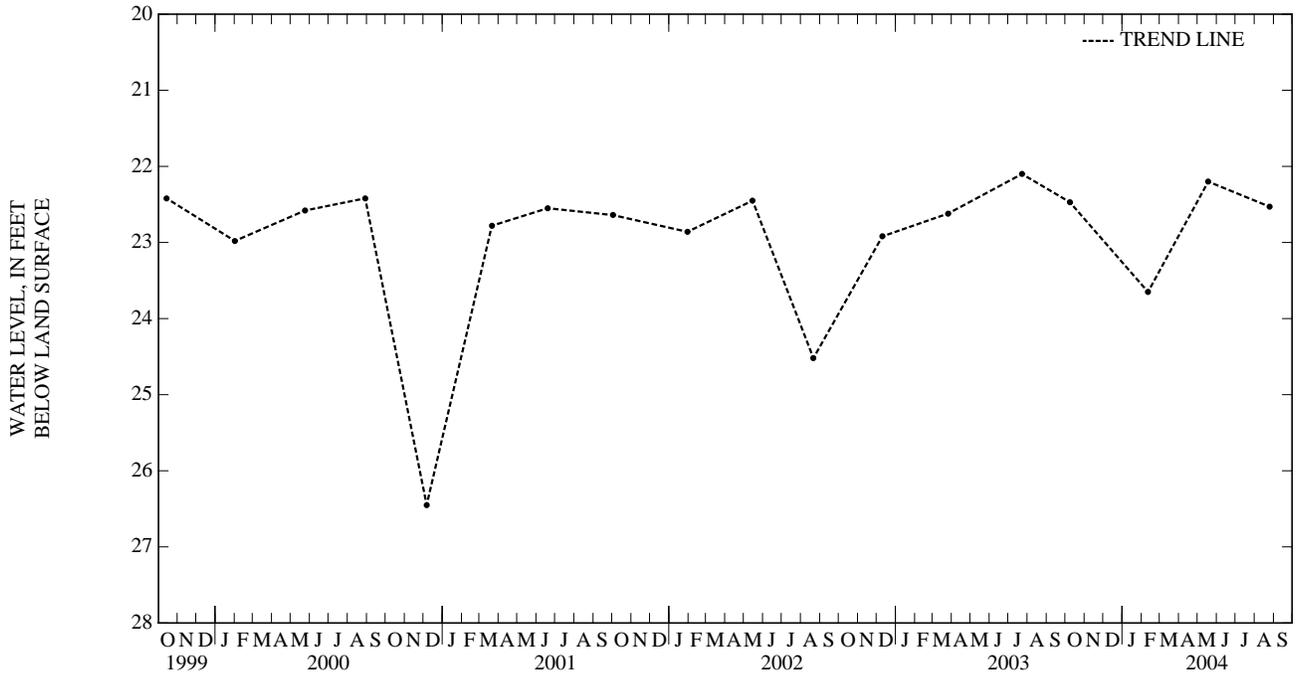
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--October 1969 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.15 ft below land-surface datum, Mar. 31, Apr. 30, 1975; lowest measured, 27.25 ft below land-surface datum, Dec. 13, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08	22.47	FEB 11	23.65	MAY 18	22.20	AUG 25	22.53
WATER YEAR 2004 HIGHEST		22.20	MAY 18, 2004 LOWEST		23.65	FEB 11, 2004	



PULASKI COUNTY—Continued

370516080411501. Local number, 25E 2 SOW 059.

LOCATION.--Lat 37°05'16", long 80°41'14", NAD83, Hydrologic Unit 05050001, 400 ft east of State Highway 100, 0.5 mi south of Dublin. Owner: Town of Dublin.

AQUIFER.--Conococheague Formation of Late Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 370 ft, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to Oct. 1, 1996, bimonthly measurement with chalked tape. July 20, 1974, to Oct. 1, 1985, occasional measurement with chalked tape. Prior to July 20, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 2,170 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum.

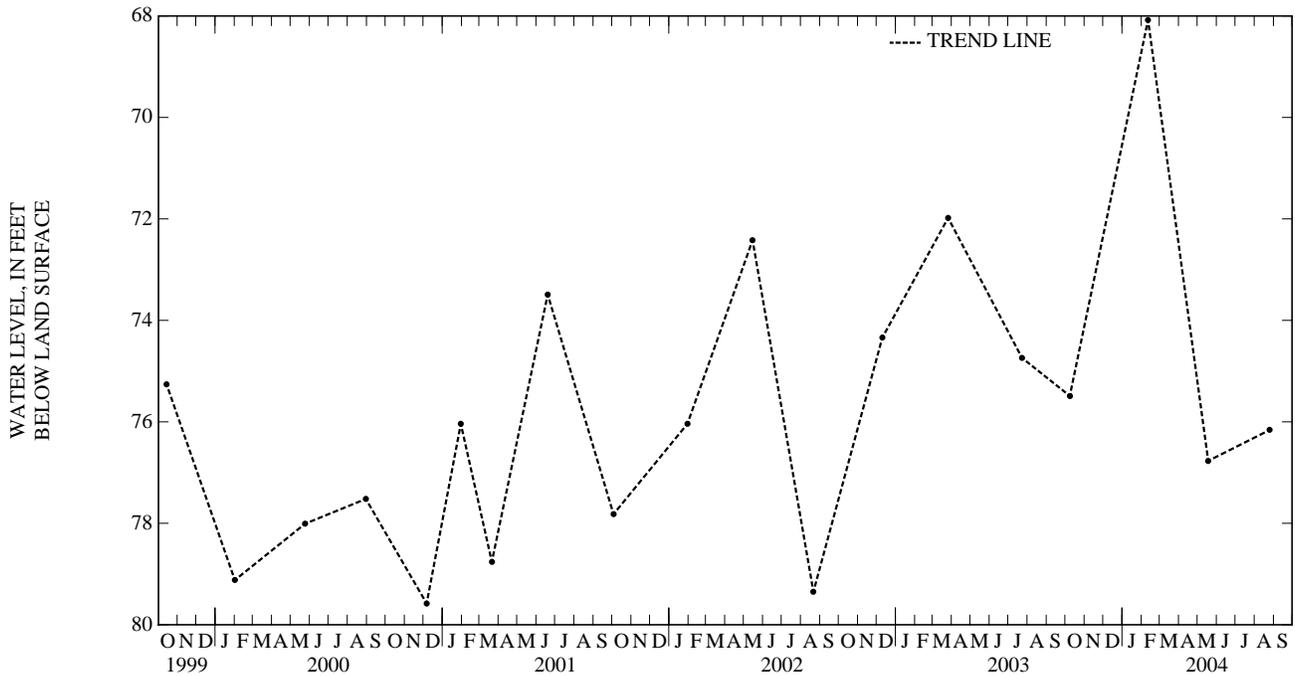
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--April 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 60.00 ft below land-surface datum, Mar. 18, 1973; lowest measured, 82.50 ft below land-surface datum, Oct. 5, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08	75.49	FEB 11	68.08	MAY 18	76.77	AUG 25	76.16
WATER YEAR 2004 HIGHEST		68.08 FEB 11, 2004	LOWEST		76.77 MAY 18, 2004		



GROUND-WATER LEVELS

RICHMOND COUNTY

375523076431801. Local number, 57M 4.

LOCATION.--Lat 37°55'23", long 76°43'17", NAD83, Hydrologic Unit 02080104, 50 ft west of Totuskey Creek, off of State Highway 3 at Totuskey Creek Brige, near Warsaw. Owner: L. Jones.

AQUIFER.--Chickahominy-Pine Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Jetted unused water well, diameter 2 in, depth 180 ft, screened 177 to 180 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

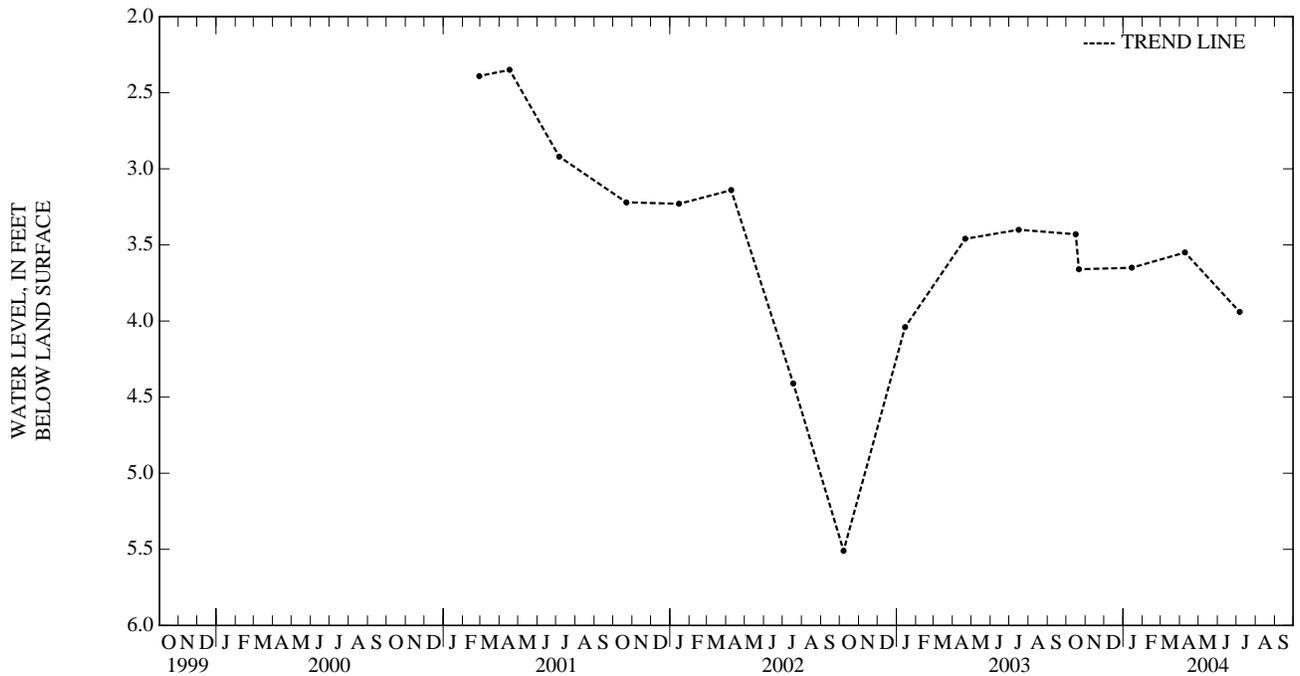
DATUM.--Elevation of land-surface datum is 3 ft, above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface prior to Oct. 21, 2003; top of casing, 3.78 ft above land-surface datum thereafter.

PERIOD OF RECORD.--1906, February 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.35 ft below land-surface datum, Apr. 17, 2001 ; lowest measured, 5.51 ft below land-surface datum, Oct. 7, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	3.43	OCT 21	3.66	JAN 14	3.65	APR 09	3.55	JUL 06	3.94
WATER YEAR 2004 HIGHEST 3.43		OCT 16, 2003		LOWEST 3.94		JUL 06, 2004			



CITY OF ROANOKE

371653079552101. Local number, 31G 1 SOW 008.

LOCATION.--Lat 37°16'53", long 79°55'20", NAD83, Hydrologic Unit 03010101, 700 ft south of intersection of 10th Street and Orange Avenue in Roanoke. Owner: Nelson-Roanoke Corporation.

AQUIFER.--Rome Formation of Cambrian age. Prior to 1974, reported as Elbrook Formation.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 48 ft, length of casing unknown.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Oct. 1, 1996 to Mar. 24, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to Oct. 1, 1996, bimonthly measurement with chalked tape. July 20, 1974, to Sept. 30, 1985, occasional measurement with chalked tape. Prior to July 20, 1974, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 930 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.94 ft above land-surface datum prior to June 23, 1994; 2.42 ft June 23, 1994 to Mar. 24, 2004; top of recorder shelf, 2.50 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--August 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.36 ft below land-surface datum, Feb. 18, 1986; lowest measured, 19.29 ft below land-surface datum, June 23, 1987.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 14.42 ft below land-surface datum, Sept. 28; lowest instantaneous water level, 18.76 ft below land-surface datum, Aug. 1, 28.

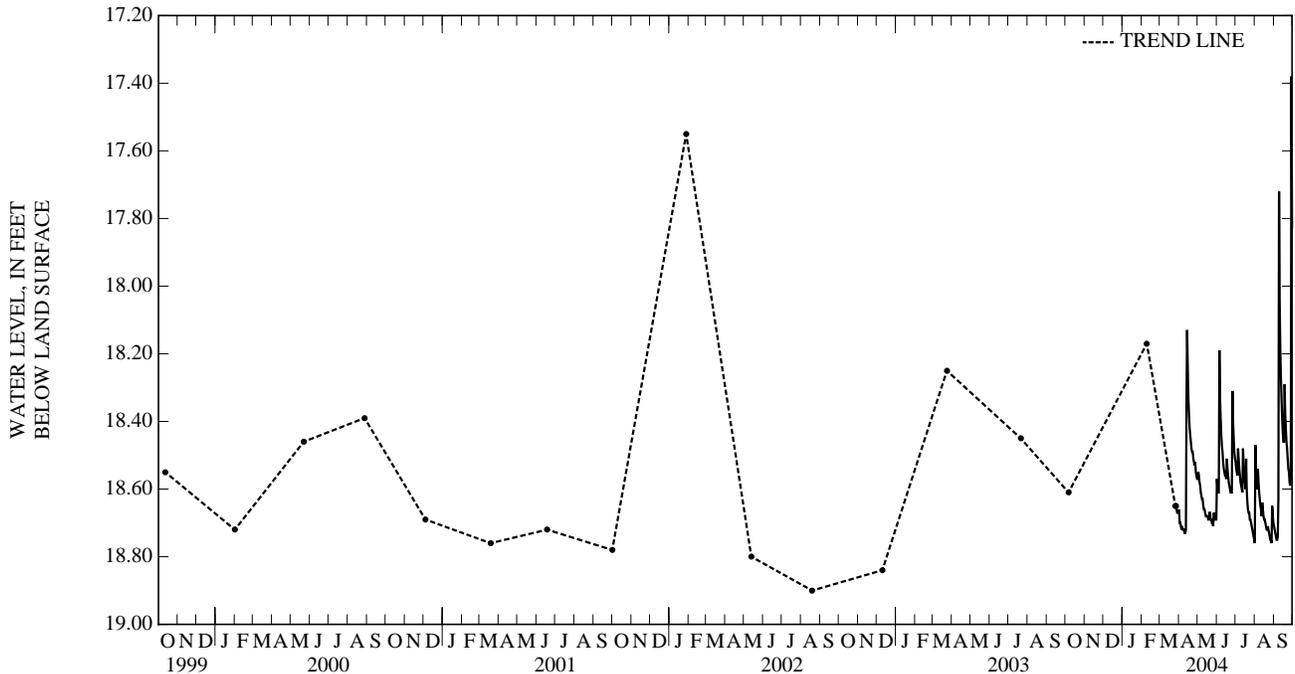
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	18.72	18.59	18.19	18.48	18.60	18.75
10	---	---	---	---	---	---	18.73	18.65	18.49	18.59	18.65	18.04
15	---	---	---	---	---	---	18.24	18.68	18.56	18.56	18.68	18.43
20	---	---	---	---	---	---	18.46	18.67	18.58	18.64	18.72	18.42
25	---	---	---	---	---	---	18.52	18.70	18.61	18.69	18.74	18.55
EOM	---	---	---	---	---	18.67	18.57	18.69	18.51	18.75	18.70	17.83

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL								
OCT 06	18.61	FEB 09	18.17	MAY 17	18.68	JUL 12	18.60	AUG 24	18.72

WATER YEAR 2004 HIGHEST 18.17 FEB 09, 2004 LOWEST 18.72 AUG 24, 2004



GROUND-WATER LEVELS

ROCKBRIDGE COUNTY

373758079271601. Local number, 35K 1 SOW 063.

LOCATION.--Lat 37°37'58", long 79°27'15", NAD83, Hydrologic Unit 02080202, 0.35 mi northwest of intersection of State Highways 130 and 684 in Glasgow. Owner: Town of Glasgow.

AQUIFER.--Rome Formation of Cambrian age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 6 in., depth 695 ft, cased to 101 ft, open hole from 101 to 695 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Oct. 1, 1995 to Mar. 24, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel, prior to Oct. 1, 1995 continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 745 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 14.27 ft below land-surface datum, Apr. 29, 1987; lowest recorded, 30.44 ft below land-surface datum, Sept. 4, 2002.

EXTREMES FOR CURRENT YEAR.--Highest measured water level, 21.47 ft, Feb. 24; lowest instantaneous water level, 26.45 ft, Sept. 6.

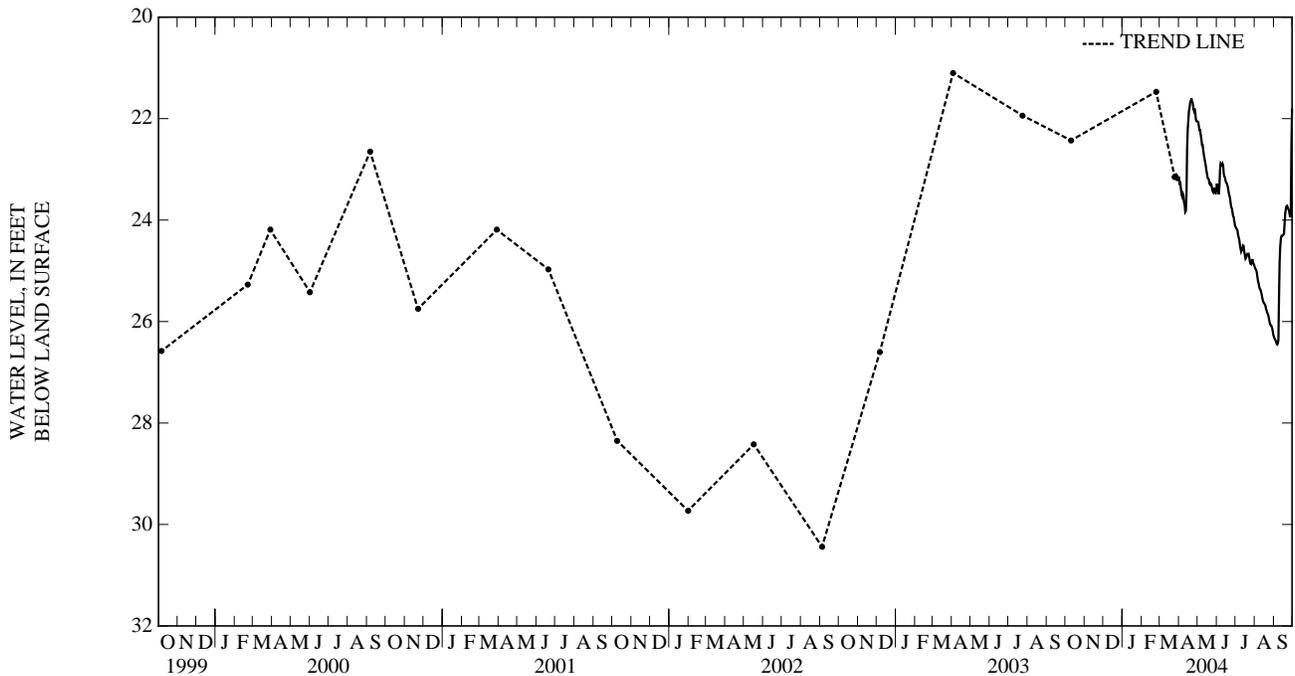
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	23.49	22.23	23.34	24.29	25.10	26.43
10	---	---	---	---	---	---	23.70	22.63	22.89	24.62	25.37	24.82
15	---	---	---	---	---	---	22.20	23.02	23.23	24.62	25.62	24.30
20	---	---	---	---	---	---	21.64	23.28	23.46	24.67	25.78	23.78
25	---	---	---	---	---	23.15	21.84	23.43	23.77	24.86	26.02	23.81
EOM	---	---	---	---	---	23.16	22.05	23.41	24.10	24.89	26.27	21.80

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL								
OCT 10	22.43	FEB 24	21.47	MAY 27	23.32	JUL 21	24.68	AUG 25	26.07

WATER YEAR 2004 HIGHEST 21.47 FEB 24, 2004 LOWEST 26.07 AUG 25, 2004



GROUND-WATER LEVELS
SOUTHAMPTON COUNTY

364109077230701. Local number, 51B 3.

LOCATION.--Lat 36°41'10", long 77°23'06", NAD83, Hydrologic Unit 03010201, 150 ft, west of the intersection of U.S. Highway 58 and State Highway 615, and 0.5mi south of Adams Grove. Owner: U.S. Geological Survey.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 175 ft, screened 165 to 175 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. July 1977 to September 1995, digital recorder, 60-minute punch. July 1975 to July 1977 continuous strip-chart recorder. Prior to July 1975 occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 126 ft, above NGVD of 1929, from topographic map. Measuring point: top of recorder shelf, 3.12 ft above land-surface datum.

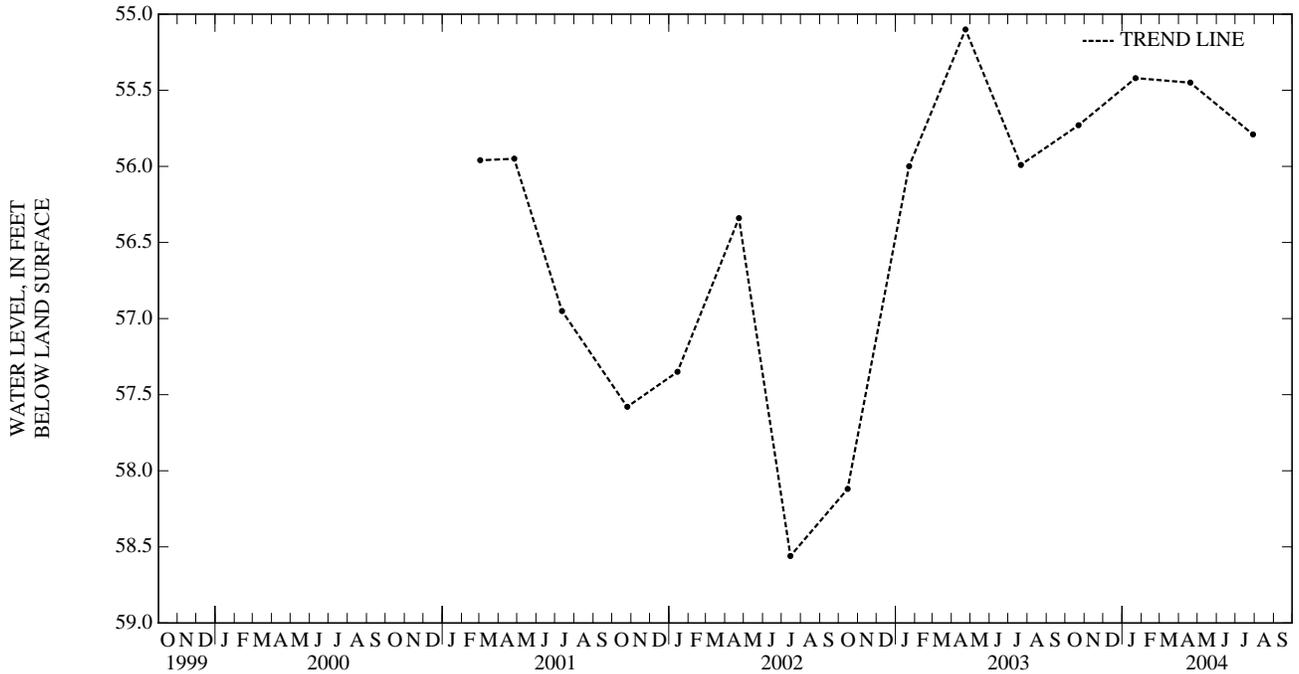
REMARKS.--Water level may be affected by regional drawdown. The depth of the well was reported incorrectly as 253 ft, for the period October 1981 to September 1993.

PERIOD OF RECORD.--October 1974 to September 1995. March 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 54.21 ft, below land-surface datum, Apr. 30, 1978; lowest recorded, 60.03 ft below land-surface datum, Oct. 24, 25, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	55.73	JAN 22	55.42	APR 19	55.45	JUL 29	55.79
WATER YEAR 2004 HIGHEST		55.42	JAN 22, 2004 LOWEST		55.79	JUL 29, 2004	



SOUTHAMPTON COUNTY—Continued

363410077150801. Local number, 52A 1.

LOCATION.--Lat 36°34'11", long 77°15'07", NAD83, Hydrologic Unit 03010204, along Seaboard Coastline railroad, 0.15 mi northwest of intersection of State Highways 195 and 701 in Branchville. Owner: L. W. Grizzard.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 217 ft, screened 204 to 217 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 44 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum.

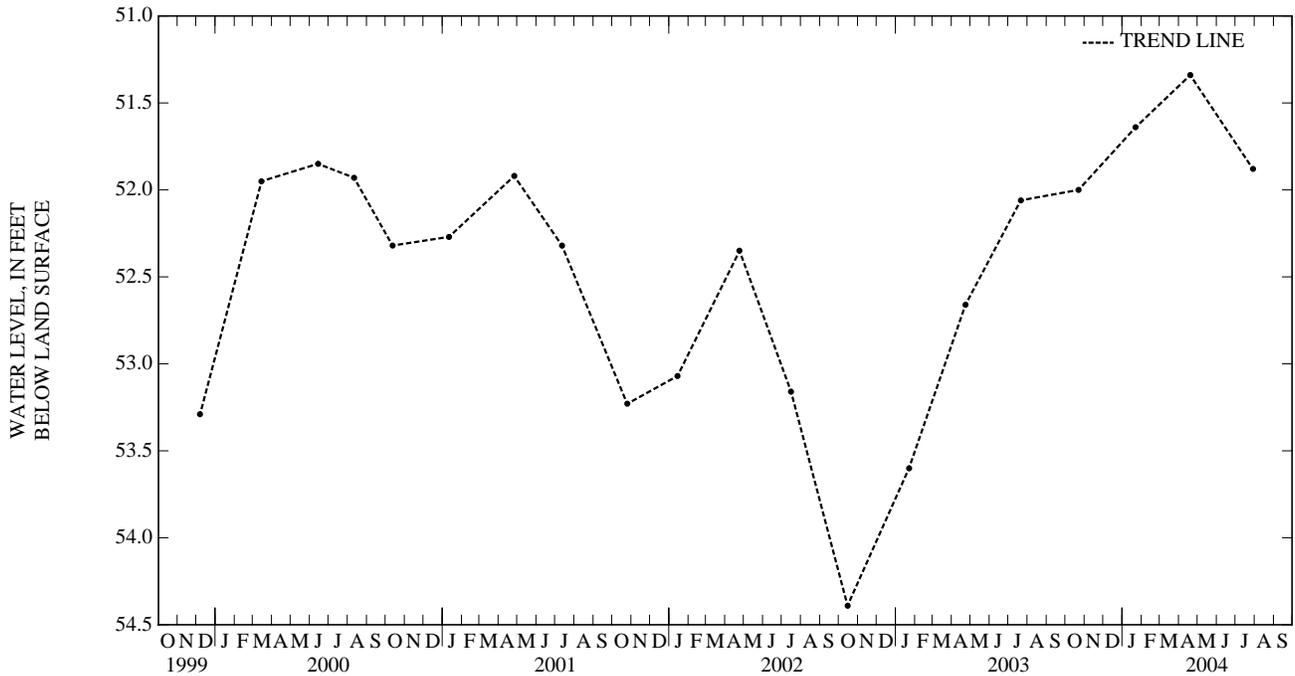
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--September 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.85 ft below land-surface datum, Sept. 9, 1970; lowest measured, 54.39 ft below land-surface datum, Oct. 15, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	52.00	JAN 22	51.64	APR 19	51.34	JUL 29	51.88
WATER YEAR 2004 HIGHEST		51.34	APR 19, 2004 LOWEST		52.00	OCT 22, 2003	



GROUND-WATER LEVELS
SOUTHAMPTON COUNTY—Continued

363916077201001. Local number, 52B 8 SOW 178A.

LOCATION.--Lat 36°39'17", long 77°20'09", NAD83, Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of the intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Newark Supergroup sandstone of Jurassic and Triassic age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 316 ft, screened 285 to 295 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 120 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Water level may be affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

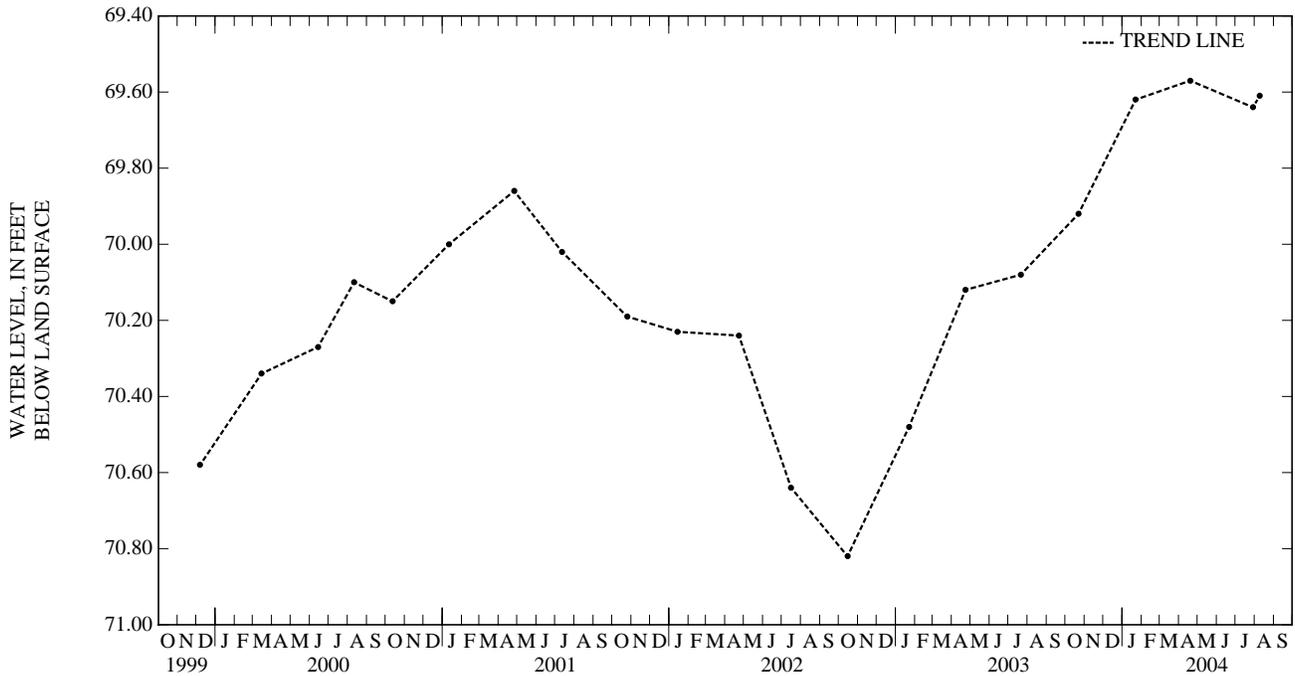
PERIOD OF RECORD.--March 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.30 ft below land-surface datum, Mar. 15, 1990; lowest measured, 71.39 ft below land-surface datum, Sept. 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL								
OCT 22	69.92	JAN 22	69.62	APR 19	69.57	JUL 29	69.64	AUG 09	69.61

WATER YEAR 2004 HIGHEST 69.57 APR 19, 2004 LOWEST 69.92 OCT 22, 2003



SOUTHAMPTON COUNTY—Continued

363916077201004. Local number, 52B 11 SOW 178D.

LOCATION.--Lat 36°39'17", long 77°20'09", NAD83, Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 190 ft, screened 160 to 170 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to November 1987, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 120 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.1 ft above land-surface datum.

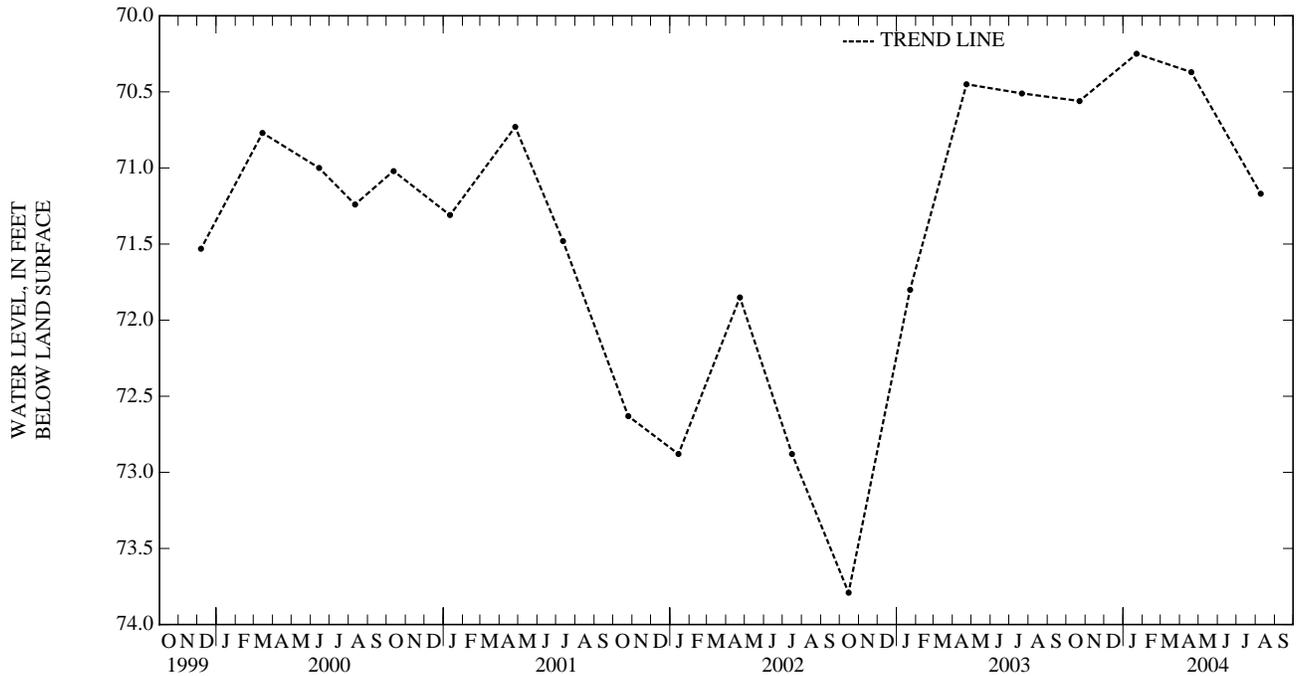
REMARKS.--Water level may be affected by regional drawdown.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 69.81 ft below land-surface datum, Apr. 16, 1987; lowest measured, 73.89 ft below land-surface datum, Sept. 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	70.56	JAN 22	70.25	APR 19	70.37	AUG 09	71.17
WATER YEAR 2004 HIGHEST		70.25	JAN 22, 2004		LOWEST		71.17
						AUG 09, 2004	



GROUND-WATER LEVELS
SOUTHAMPTON COUNTY—Continued

363916077201005. Local number, 52B 12 SOW 178E.

LOCATION.--Lat 36°39'17", long 77°20'09", NAD83, Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 135 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to November 1987, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 120 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.2 ft above land-surface datum.

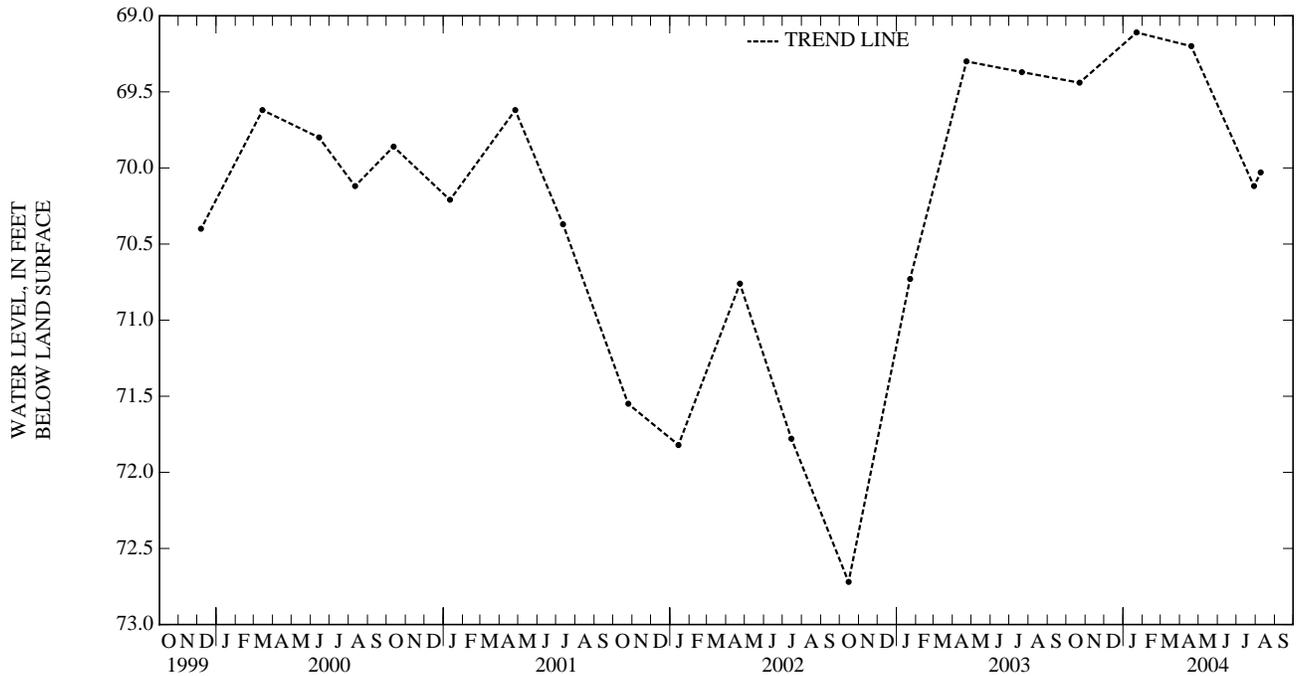
REMARKS.--Water level may be affected by regional drawdown.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 68.75 ft below land-surface datum, Apr. 16, 1987; lowest measured, 72.86 ft below land-surface datum, Sept. 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	69.44	JAN 22	69.11	APR 19	69.20	JUL 29	70.12	AUG 09	70.03
WATER YEAR 2004 HIGHEST		69.11 JAN 22, 2004		LOWEST		70.12 JUL 29, 2004			



SOUTHAMPTON COUNTY—Continued

363916077201006. Local number, 52B 13 SOW 178F.

LOCATION.--Lat 36°39'17", long 77°20'09", NAD83, Hydrologic Unit 03010204, 0.25 mi northeast of State Highway 661, 0.6 mi south of intersection of State Highways 652 and 661, and 4.5 mi southeast of Drewryville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 65 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Occasional measurements with chalked tape by USGS personnel. Prior to November 1987, digital recorder, 60-minute punch.

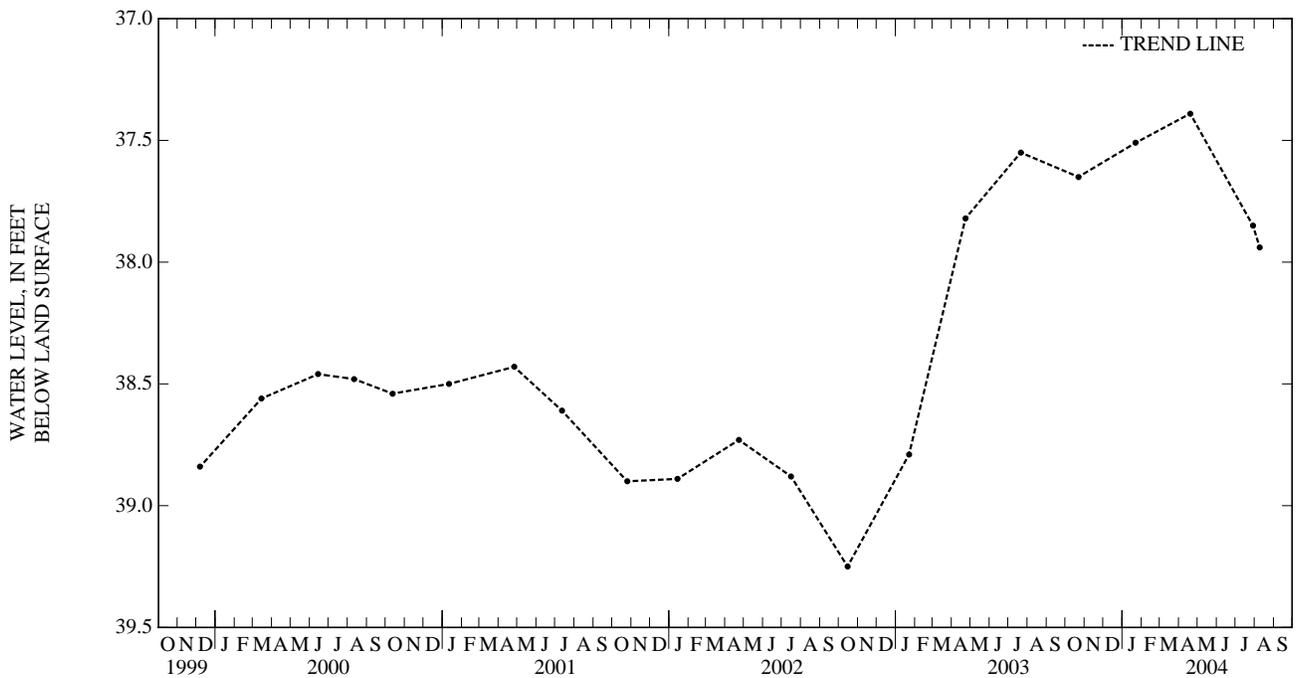
DATUM.--Elevation of land-surface datum is 120 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.39 ft below land-surface datum, Apr. 19, 2004; lowest recorded, 43.77 ft below land-surface datum, Oct. 6-9, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	37.65	JAN 22	37.51	APR 19	37.39	JUL 29	37.85	AUG 09	37.94
WATER YEAR 2004 HIGHEST		37.39 APR 19, 2004		LOWEST		37.94 AUG 09, 2004			



GROUND-WATER LEVELS
SOUTHAMPTON COUNTY—Continued

364242077121501. Local number, 53B 6.

LOCATION.--Lat 36°42'43", long 77°12'14", NAD83, Hydrologic Unit 03010201, at Virginia Department of Transportation - Capron Area Headquarters, 50 ft east of State Highway 654 and 2000 ft north of U.S. Highway 58. Owner: U.S. Geological Survey.

AQUIFER.--Aquia of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 115.65 ft, screened 110.65 ft to 115.65 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1998 to Oct. 1, 1999, occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1998, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 95 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.88 ft above land-surface datum prior to Dec. 23, 1998; 1.16 ft thereafter.

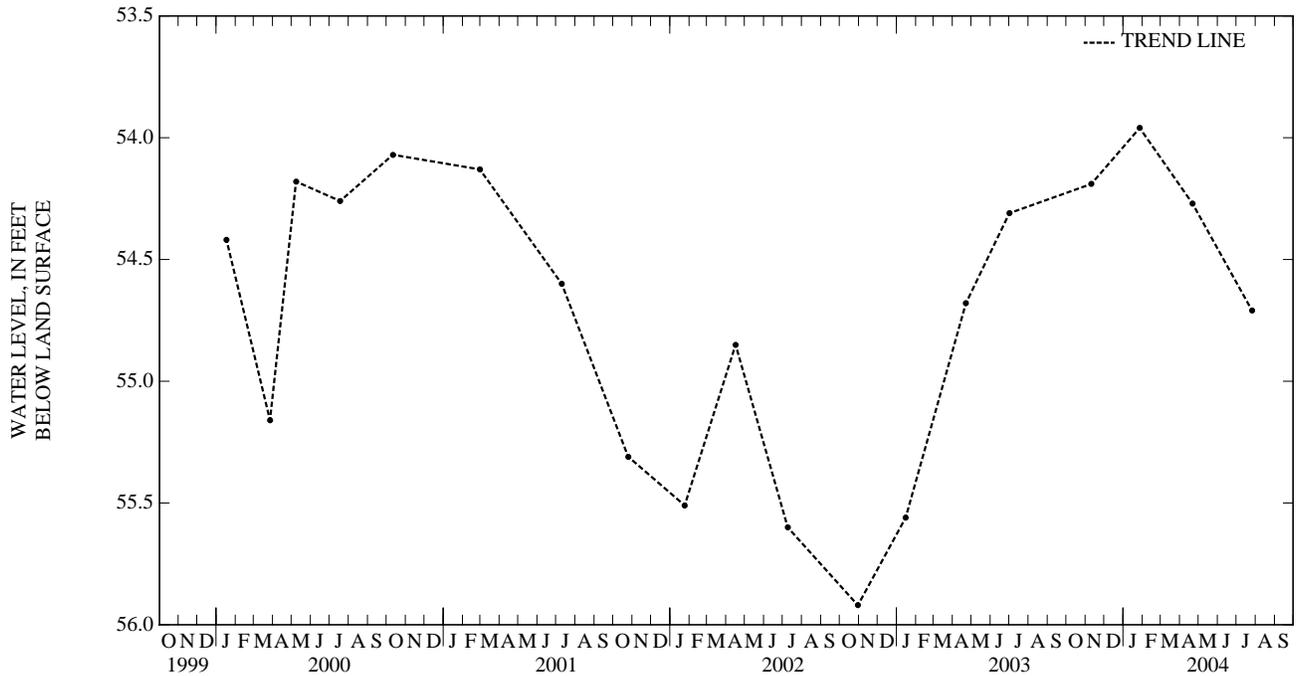
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Well drilled as part of Fall Zone ground-water study.

PERIOD OF RECORD.--May 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.96 ft below land-surface datum, Jan. 27, 2004; lowest measured, 56.14 ft below land-surface datum, Dec. 23, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	54.19	JAN 27	53.96	APR 21	54.27	JUL 26	54.71
WATER YEAR 2004 HIGHEST		53.96	JAN 27, 2004		LOWEST		54.71
						JUL 26, 2004	



SOUTHAMPTON COUNTY—Continued

364242077121502. Local number, 53B 7.

LOCATION.--Lat 36°42'43", long 77°12'14", NAD83, Hydrologic Unit 03010201, at Virginia Department of Transportation - Capron Area Headquarters, 50 ft east of State Highway 654 and 2000 ft north of U.S. Highway 58. Owner: U.S. Geological Survey.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 80.77 ft, screened 75.77 ft to 80.77 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1998 to Oct. 1, 1999, occasional measurement with chalked tape by USGS personnel. Prior to Oct. 1, 1998, monthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 95 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.82 ft above land-surface datum prior to Dec. 23, 1998; 1.09 ft thereafter.

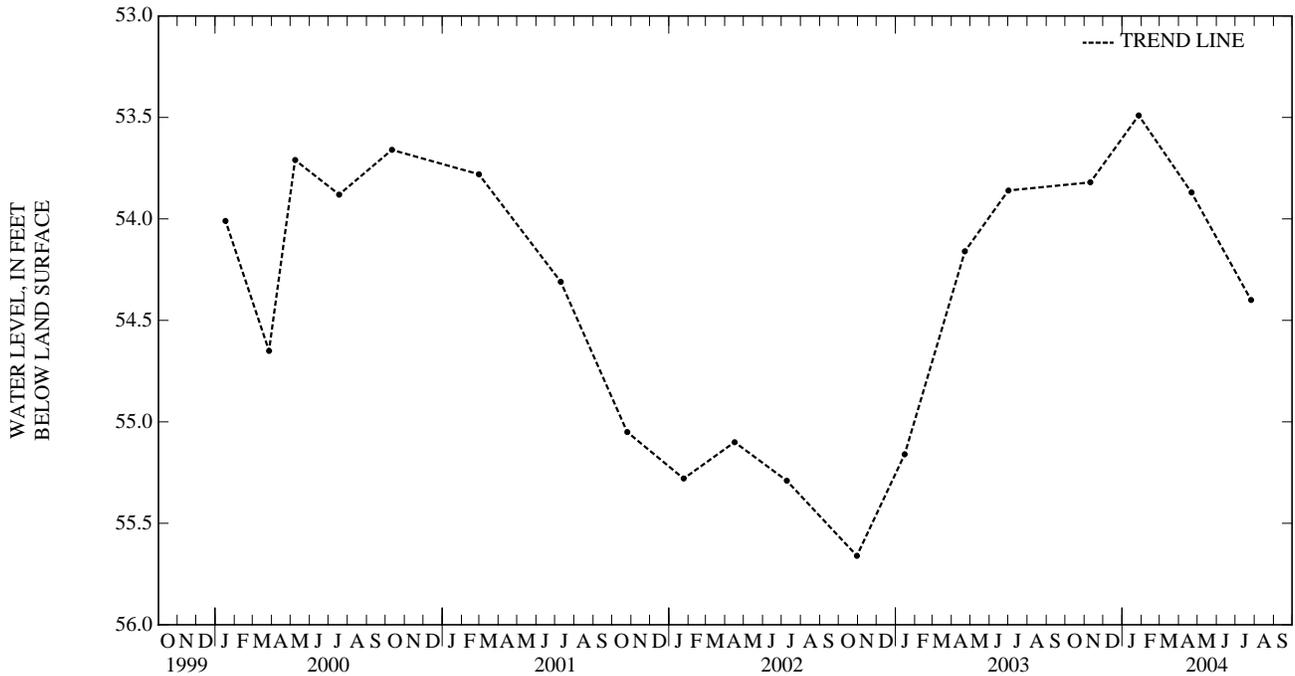
REMARKS.--Records provided by Virginia Department of Environmental Quality - Water Division. Well drilled as part of Fall Zone ground-water study.

PERIOD OF RECORD.--May 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.29 ft below land-surface datum, May 7, 1997; lowest measured, 55.91 ft below land-surface datum, Dec. 23, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	53.82	JAN 27	53.49	APR 21	53.87	JUL 26	54.40
WATER YEAR 2004 HIGHEST		53.49	JAN 27, 2004		LOWEST		54.40
							JUL 26, 2004



GROUND-WATER LEVELS
SOUTHAMPTON COUNTY—Continued

363722077014601. Local number, 54A 1.

LOCATION.--Lat 36°37'23", long 77°01'45", NAD83, Hydrologic Unit 03010201, 100 ft west of State Highway 681, 0.5 mi north of intersection of State Highways 672 and 681, and 2.4 mi north of Sunbeam. Owner: William Britt.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 254 ft, screened 244 to 254 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.00 ft above land-surface datum.

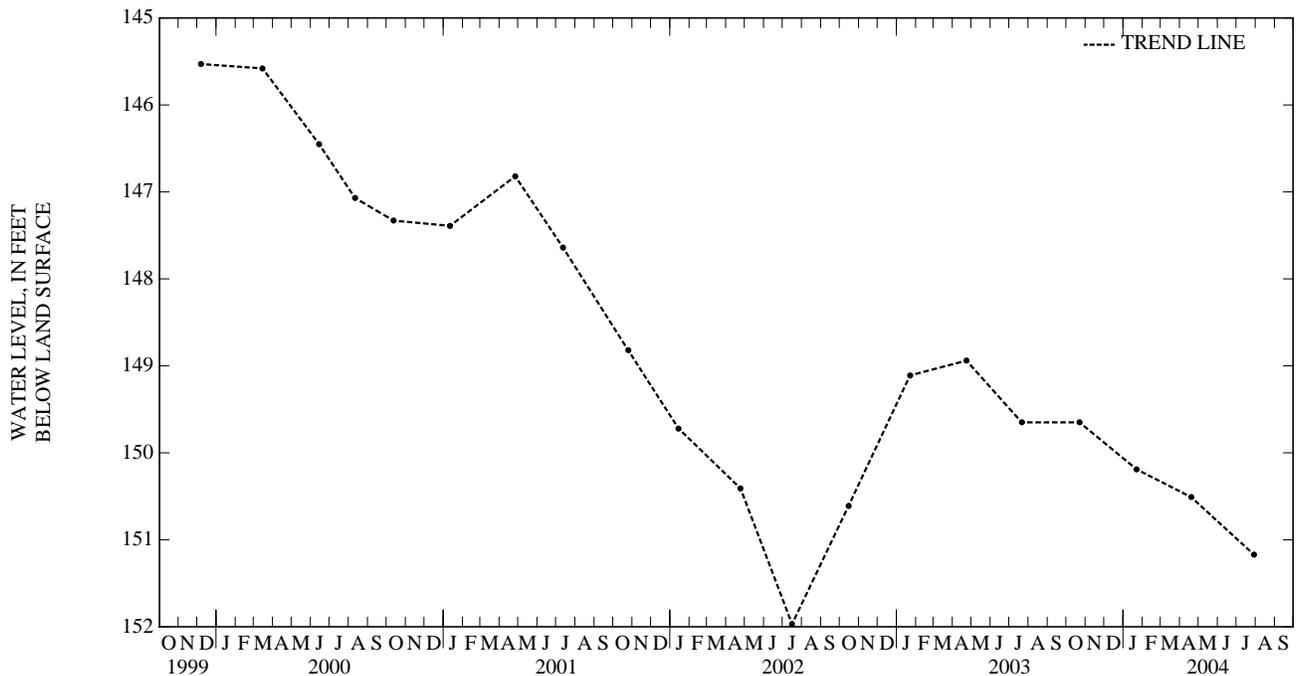
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--August 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 113.40 ft below land-surface datum, Aug. 17, 1970; lowest measured, 154.68 ft below land-surface datum, Dec. 18, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	149.65	JAN 22	150.19	APR 19	150.51	JUL 29	151.17
WATER YEAR 2004 HIGHEST 149.65		OCT 22, 2003		LOWEST 151.17		JUL 29, 2004	



SOUTHAMPTON COUNTY—Continued

363632076580101. Local number, 55A 3 SOW 086.

LOCATION.--Lat 36°36'33", long 76°58'00", NAD83, Hydrologic Unit 03010201, 0.1 mi southeast of intersection of State Highways 687 and 689, 4.0 mi southwest of Franklin. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 745 ft, screened 714 to 724 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 18 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 11, 1988; 1.3 ft thereafter.

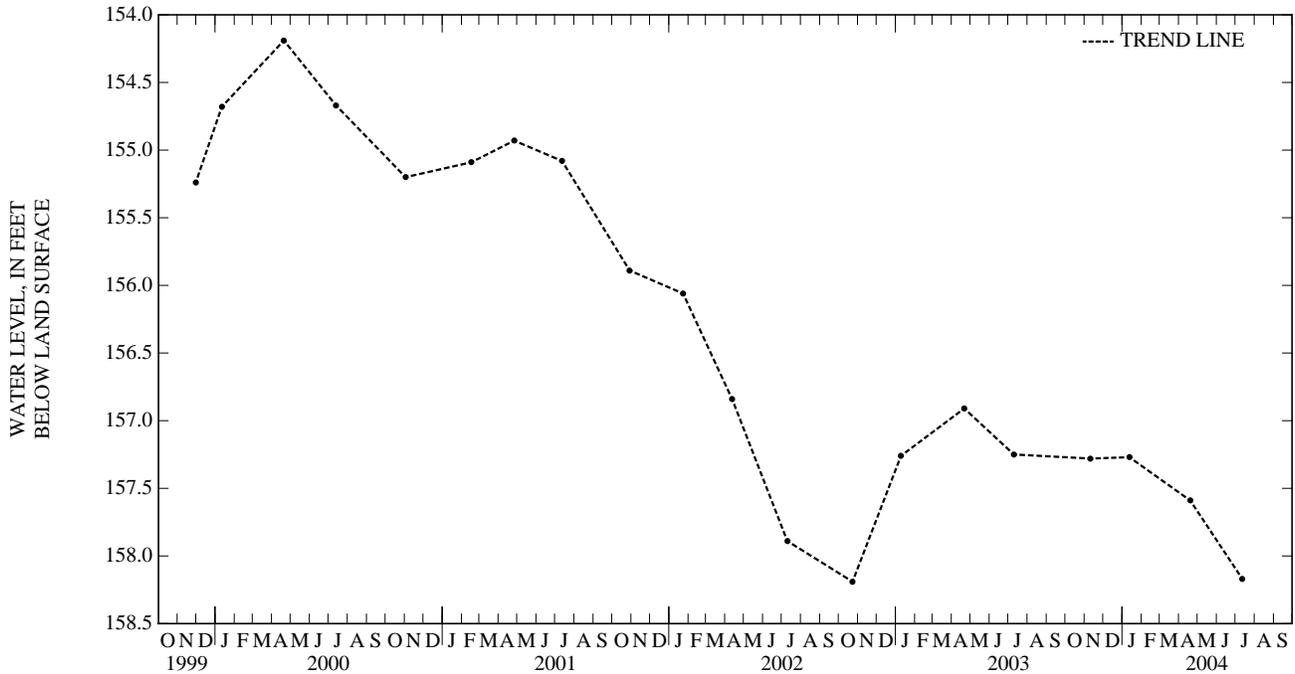
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 7, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

PERIOD OF RECORD.--March 1977, October 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.00 ft below land-surface datum, Mar. 18, 1977; lowest measured, 159.67 ft below land-surface datum, Oct. 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	157.28	JAN 12	157.27	APR 19	157.59	JUL 12	158.17
WATER YEAR 2004 HIGHEST 157.27		JAN 12, 2004		LOWEST 158.17		JUL 12, 2004	



GROUND-WATER LEVELS
SOUTHAMPTON COUNTY—Continued

364628076552701. Local number, 55C 3.

LOCATION.--Lat 36°46'29", long 76°25'26", NAD83, Hydrologic Unit 03010202, 0.2 mi north of Black Creek, at the intersection of State Highways 638 and 626. Owner: Black Creek Baptist Church.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTIC.--Drilled unused water well, diameter 4 in., depth 312 ft, screened 300 to 312 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface is 57 ft above NGVD of 1929, from topographic map. Measuring Point: Top of coupling in breather pipe, 1.60 ft above land-surface datum prior to May 29, 2001; 1.12 ft thereafter.

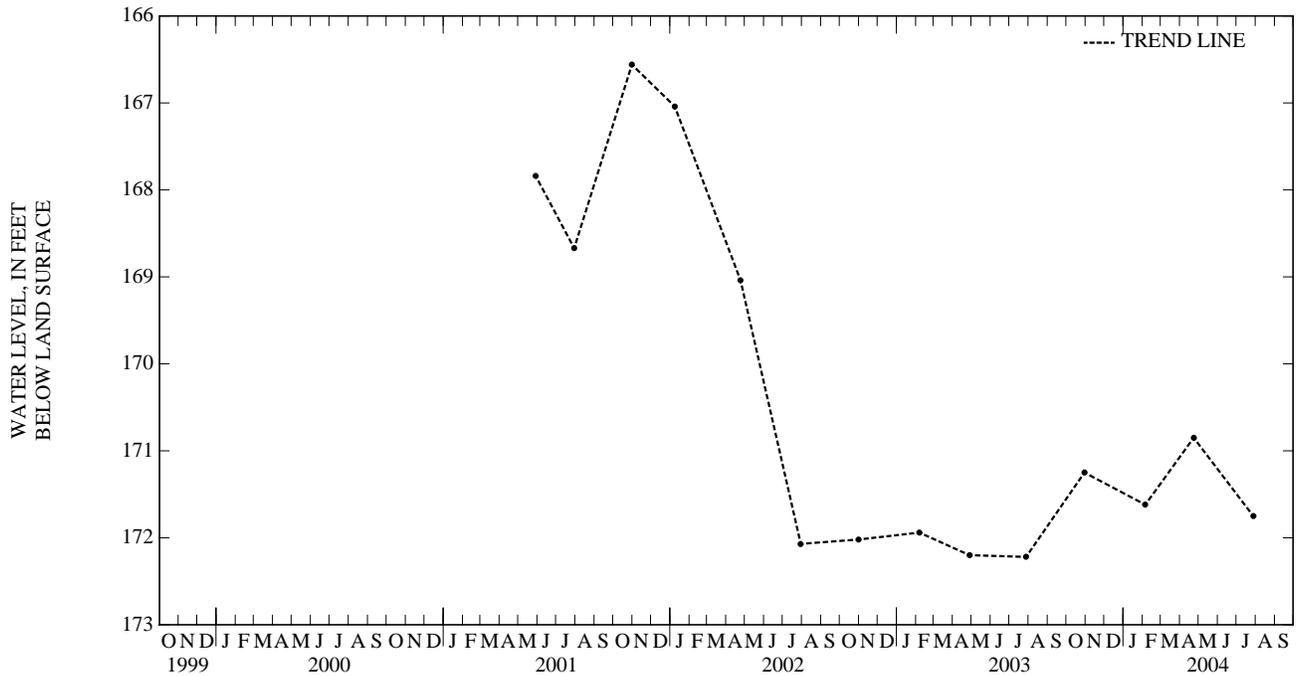
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--August 1970 to December 1975, January 1978 to March 1990, May 2001 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 132.80 ft below land-surface datum, Dec. 29, 1970; lowest measured, 172.22 ft below land-surface datum, July 28, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	171.25	FEB 05	171.62	APR 23	170.85	JUL 28	171.75
WATER YEAR 2004 HIGHEST		170.85	APR 23, 2004		LOWEST		171.75
						JUL 28, 2004	



SOUTHAMPTON COUNTY—Continued

365120076585101. Local number, 55C 10.

LOCATION.--Lat 36°51'21", long 76°58'50", NAD83, Hydrologic Unit 03010202, 100 ft west of State Highway 616, 0.3 mi south of Berlin. Owner: R. L. Harrup.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled withdrawal water well, diameter 4 in., depth 326 ft, screened 316 to 326 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 65 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

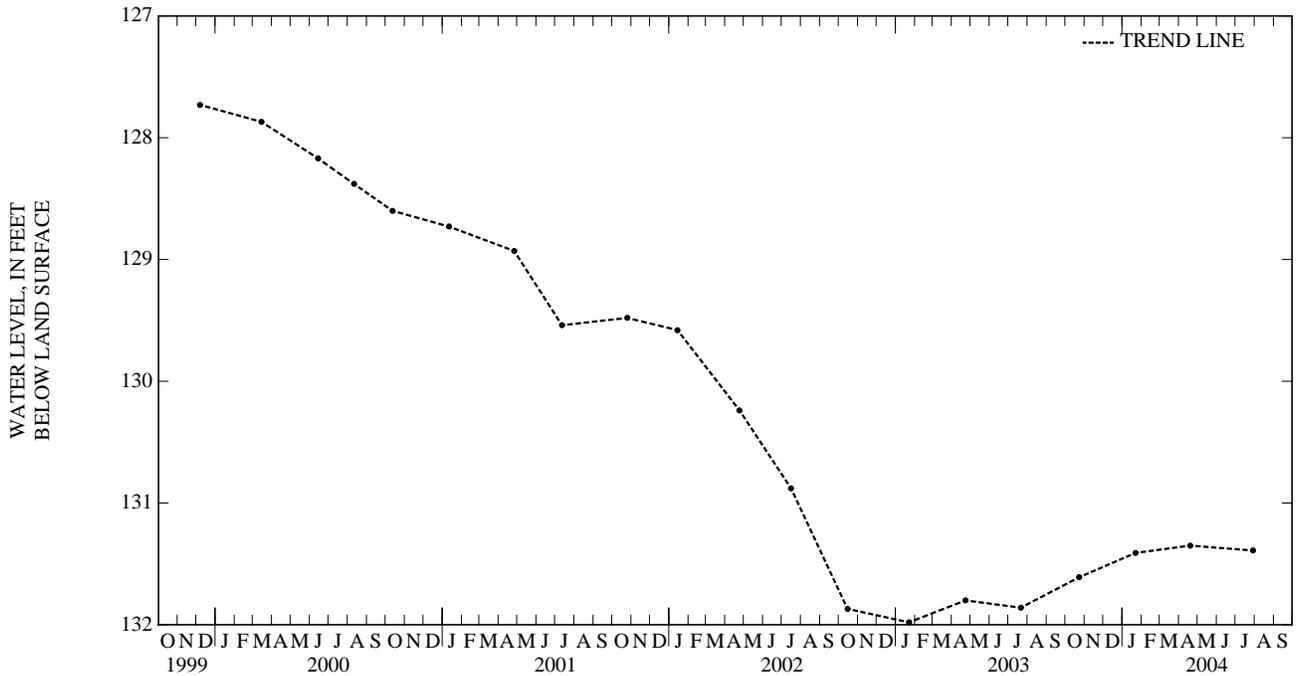
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--August 1970 to December 1975, January 1978 to current year. Unpublished records available prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.62 ft below land-surface datum, Aug. 21, 1970; lowest measured, 132.10 ft below land-surface datum, Apr. 2, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	131.61	JAN 22	131.41	APR 19	131.35	JUL 29	131.39
WATER YEAR 2004 HIGHEST 131.35		APR 19, 2004		LOWEST 131.61		OCT 23, 2003	



GROUND-WATER LEVELS

CITY OF SUFFOLK

363345076470201. Local number, 56A 10 SOW 088A.

LOCATION.--Lat 36°33'46", long 76°47'01", NAD83, Hydrologic Unit 03010203, 0.1 mi north of intersection of State Highways 668 and 669, 1.9 mi west of Somerton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,060 ft, screened 1,050 to 1,060 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 12, 1988; 1.3 ft thereafter.

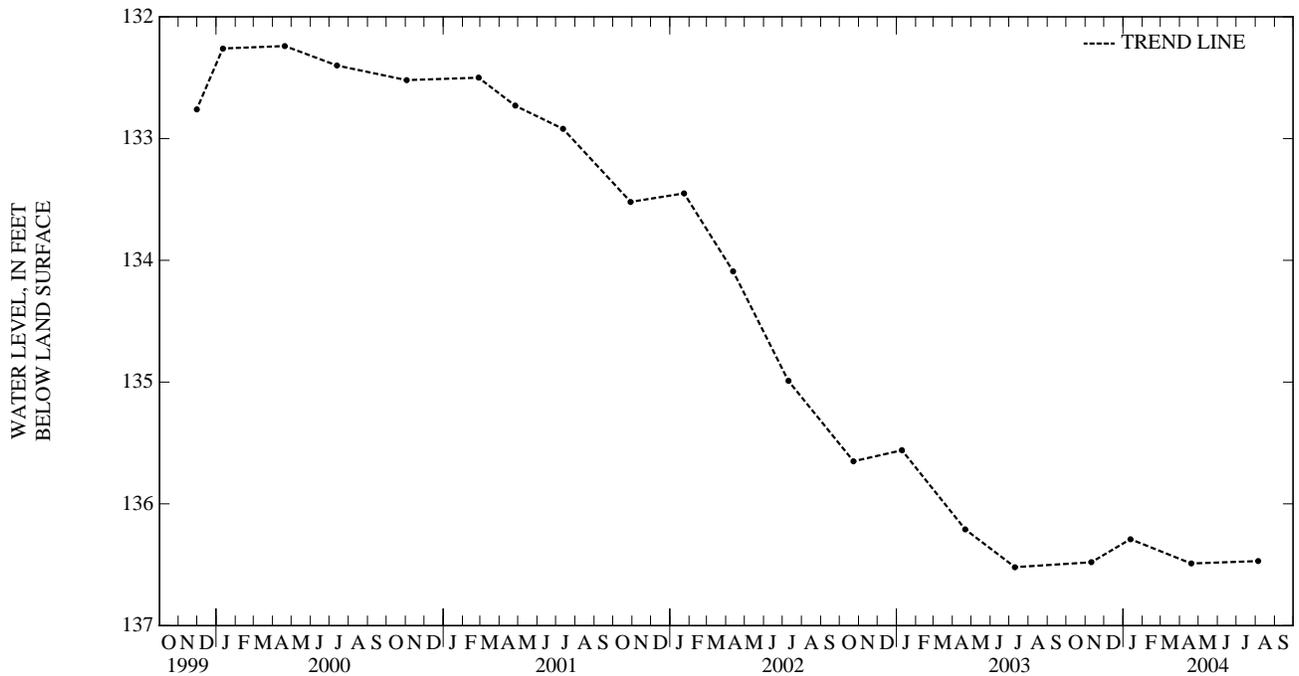
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1977 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 104.70 ft below land-surface datum, June 30, 1980; lowest measured, 136.52 ft below land-surface datum, July 10, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	136.48	JAN 12	136.29	APR 19	136.49	AUG 05	136.47
WATER YEAR 2004 HIGHEST		136.29	JAN 12, 2004 LOWEST		136.49	APR 19, 2004	



CITY OF SUFFOLK—Continued

363653076455401. Local number, 56A 11 SOW 089.

LOCATION.--Lat 36°36'54", long 76°45'53", NAD83, Hydrologic Unit 03010203, off State Highway 616, 1.1 mi east of Holy Neck Church, and 3.4 mi north of Somerton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 861 ft, screened 830 to 840 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 79 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Nov. 18, 1987; 0.6 ft Nov. 18, 1987, to Jan. 12, 1988; 1.3 ft thereafter.

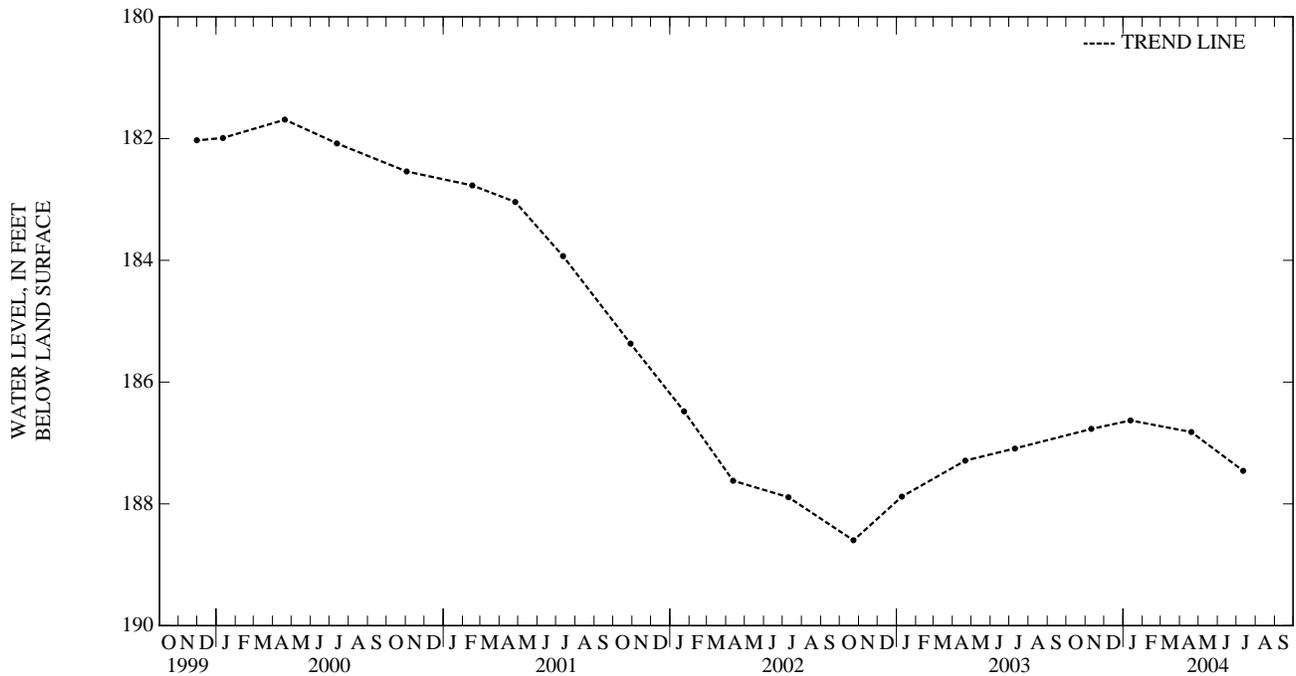
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

PERIOD OF RECORD.--August 1977 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 154.00 ft below land-surface datum, Aug. 9, 1977; lowest measured, 188.60 ft below land-surface datum, Oct. 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	186.77	JAN 12	186.63	APR 19	186.82	JUL 12	187.46
WATER YEAR 2004 HIGHEST		186.63 JAN 12, 2004		LOWEST		187.46 JUL 12, 2004	



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

363345076470202. Local number, 56A 12 SOW 088B.

LOCATION.--Lat 36°33'46", long 76°47'01", NAD83, Hydrologic Unit 03010203, 0.1 mi north of intersection of State Highways 668 and 669, 1.9 mi west of Somerton. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 580 ft, screened 570 to 580 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 7, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 8, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 12, 1988; 1.3 ft thereafter.

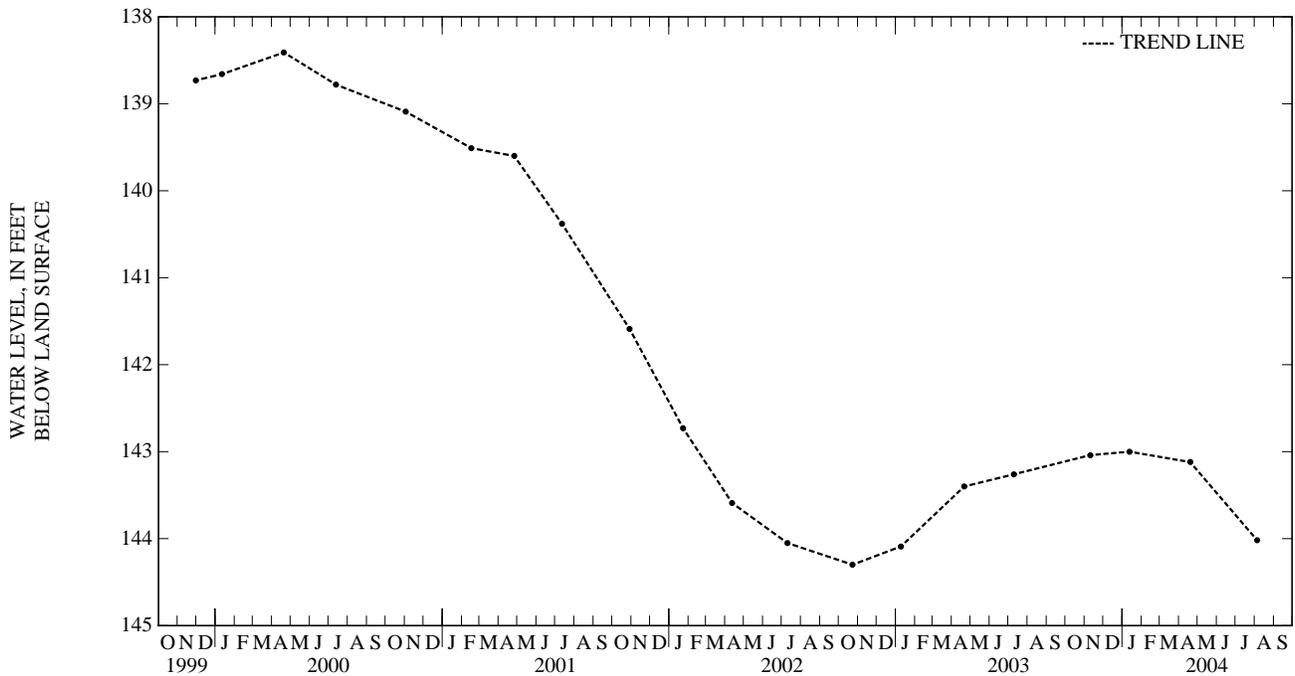
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 7, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1977 to November 1982, June 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.00 ft below land-surface datum, June 30, 1977; lowest measured, 144.30 ft below land-surface datum, Oct. 23, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	143.04	JAN 12	143.00	APR 19	143.12	AUG 05	144.02
WATER YEAR 2004 HIGHEST		143.00	JAN 12, 2004 LOWEST		144.02	AUG 05, 2004	



CITY OF SUFFOLK—Continued

363625076522602. Local number, 56A 13 SOW 076B.

LOCATION.--Lat 36°36'26", long 76°52'25", NAD83, Hydrologic Unit 03010203, 700 ft west of State Highway 615, 0.5 mi southwest of Olive Branch Church, and 8.1 mi south of Holland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 807 ft, screened 797 to 802 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 75 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum prior to Jan. 12, 1988; 0.8 ft thereafter.

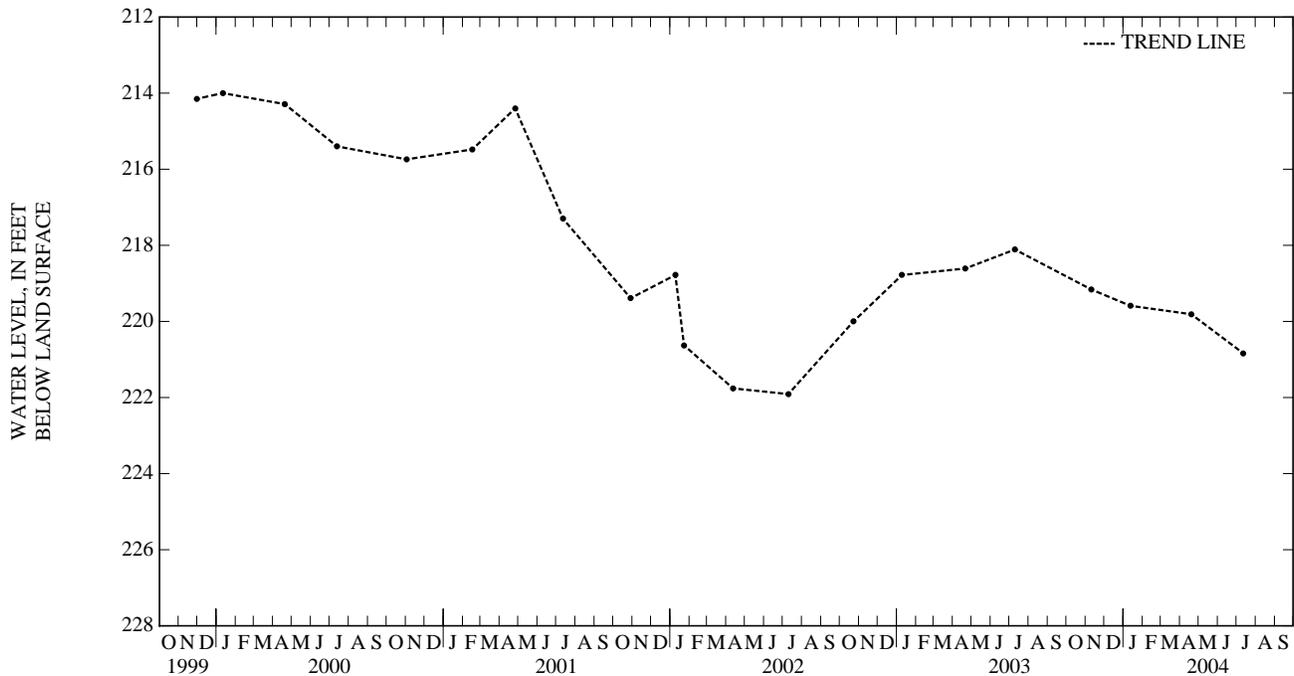
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--May 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 204.34 ft below land-surface datum, Oct. 26, 1982; lowest measured, 228.29 ft below land-surface datum, May 5, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	219.16	JAN 12	219.59	APR 19	219.81	JUL 12	220.84
WATER YEAR 2004 HIGHEST 219.16		NOV 10, 2003		LOWEST 220.84		JUL 12, 2004	



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

363625076522603. Local number, 56A 14 SOW 076C.

LOCATION.--Lat 36°36'26", long 76°52'25", NAD83, Hydrologic Unit 03010203, 700 ft west of State Highway 615, 0.5 mi southwest of Olive Branch Church, and 8.1 mi south of Holland. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 735 ft, screened 730 to 735 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 16, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 15, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 16, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 75 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Jan. 12, 1988; 1.2 ft thereafter.

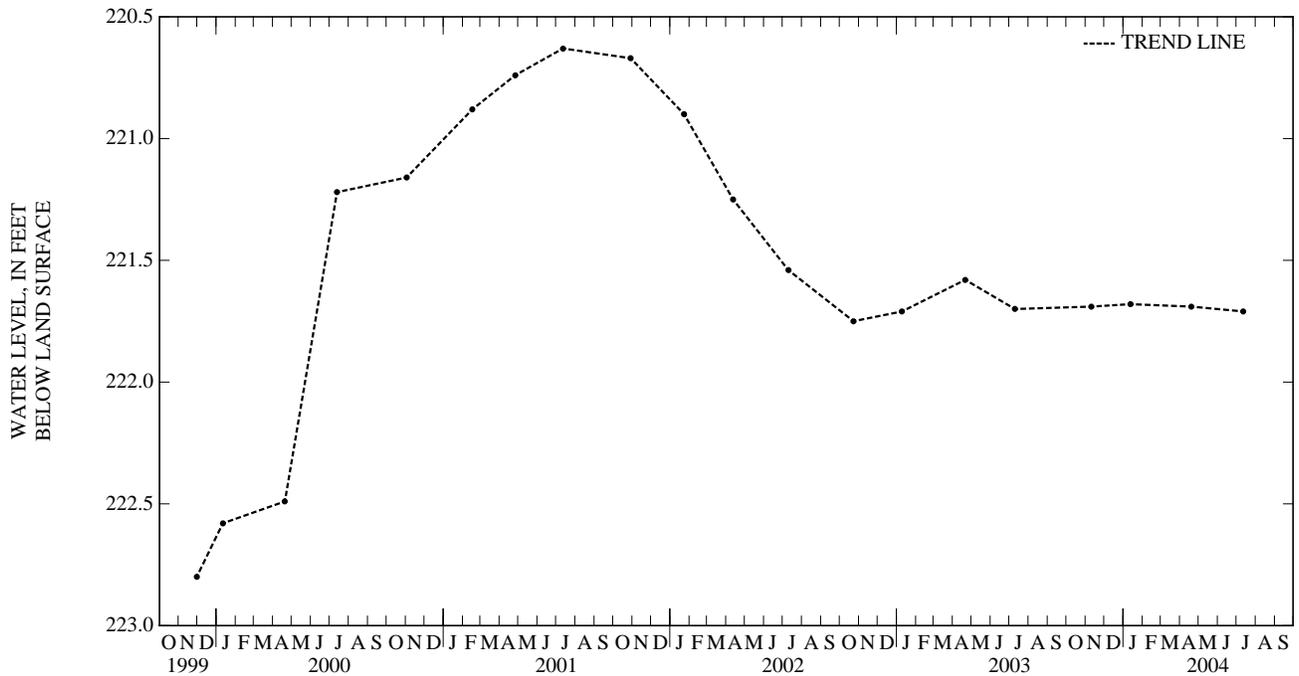
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 15, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

PERIOD OF RECORD.--March 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 205.62 ft below land-surface datum, Mar. 7, 1979; lowest measured, 224.05 ft below land-surface datum, Oct. 29, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10	221.69	JAN 12	221.68	APR 19	221.69	JUL 12	221.71
WATER YEAR 2004 HIGHEST		221.68	JAN 12, 2004		LOWEST		221.71
						JUL 12, 2004	



CITY OF SUFFOLK—Continued

363834076382301. Local number, 57B 8.

LOCATION.--Lat 36°38'28", long 76°38'04", NAD83, Hydrologic Unit 03010205, 0.3 mi southwest of State Highway 664, 0.8 mi southeast of U.S. Highway 13, and 1.1 mi south of Nurneysville. Owner: Russ Family.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled flowing water well, diameter 2 in., depth 65 ft, screened 50 to 65 ft.

INSTRUMENTATION.--Occasional measurement with manometer by USGS personnel. Dec. 1, 1988, to June 1, 1990, quarterly measurement with a manometer. Prior to Dec. 1, 1988, bimonthly measurement with a manometer.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: At land-surface datum.

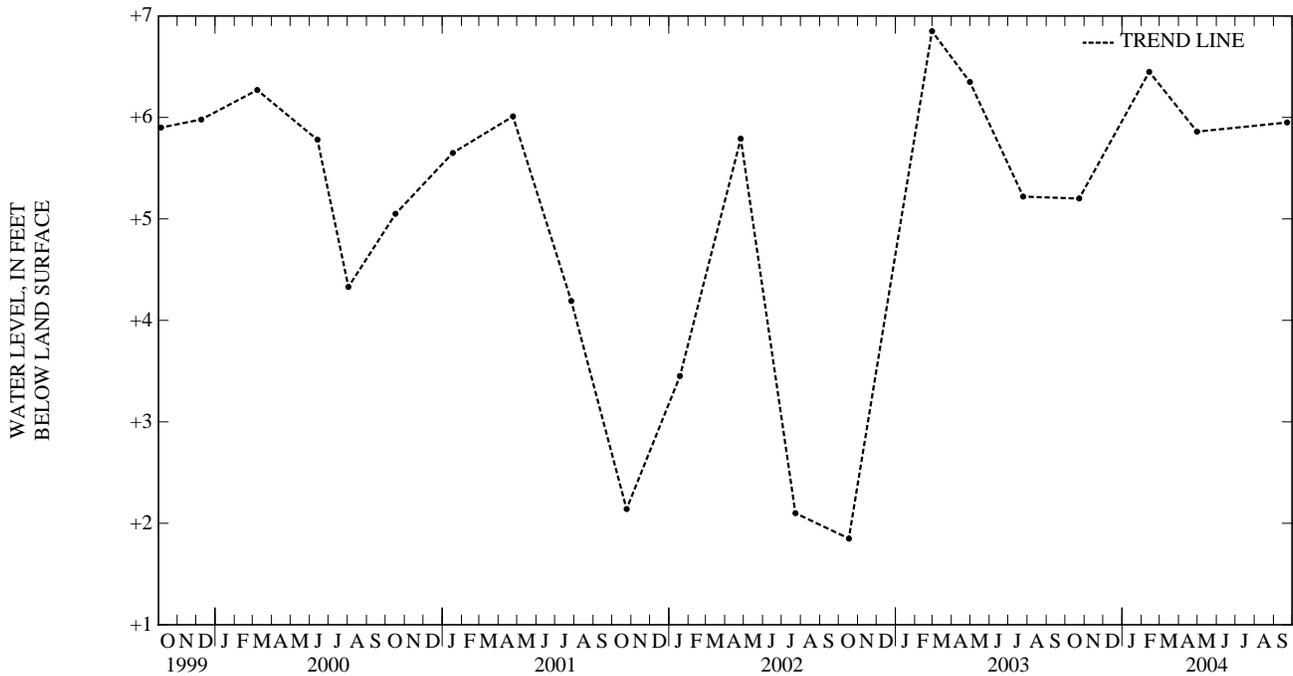
REMARKS.--Capped flowing well; readings are above land-surface datum. Occasional small withdrawals that supply nearby cabin can effect water levels.

PERIOD OF RECORD.--March 1975, November 1977 to current year. Unpublished records available March 1975 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.85 ft above land-surface datum, Feb. 28, 2003; lowest measured, at land-surface datum, Sept. 26, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+"), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	+5.20	FEB 13	+6.45	APR 30	+5.86	SEP 22	+5.95
WATER YEAR 2004 HIGHEST		+6.45 FEB 13, 2004	LOWEST		+5.20 OCT 23, 2003		



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

364703076383701. Local number, 57C 21 SOW 099A.

LOCATION.--Lat 36°47'04", long 76°38'36", NAD83, Hydrologic Unit 02080208, 700 ft south of U.S. Highway 460, 0.5 mi west of Providence Church, and 1.0 mi west of Kings Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 248 ft, screened 238 to 248 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 72 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum prior to Jan. 12, 1988; 1.1 ft thereafter.

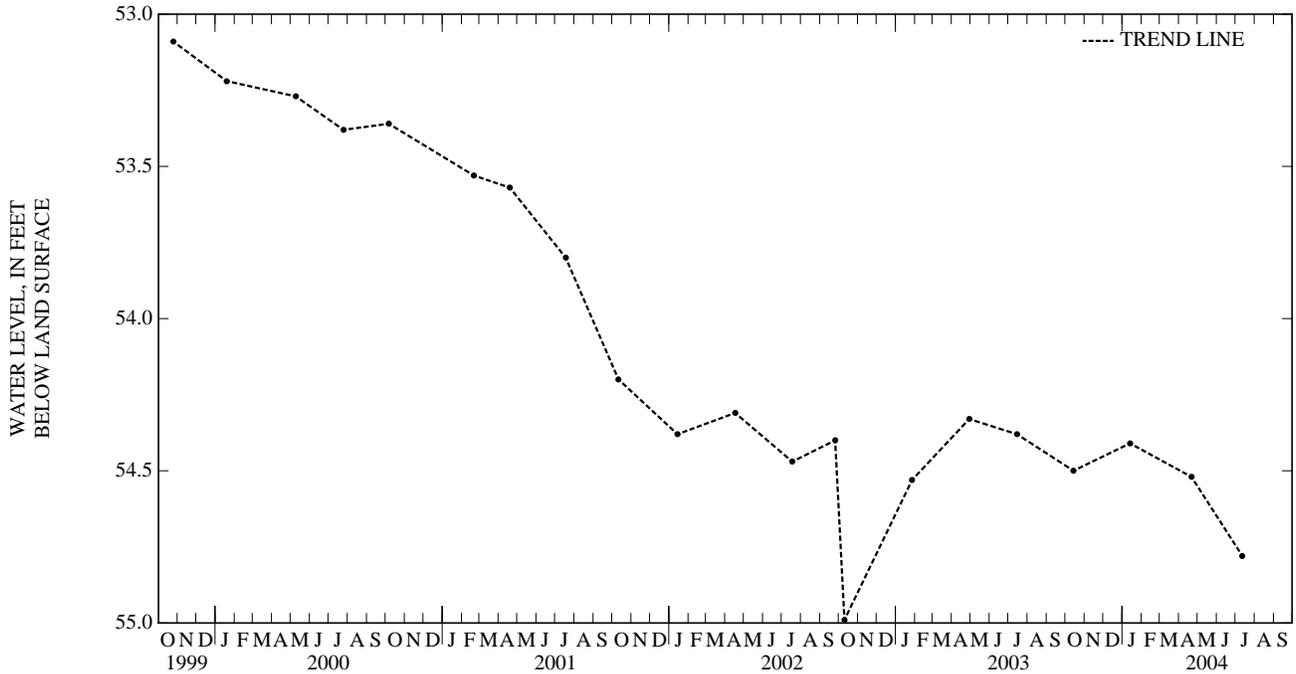
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--September 1983 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.32 ft below land-surface datum, Apr. 19, 1984; lowest measured, 54.99 ft below land-surface datum, Oct 10, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	54.50	JAN 13	54.41	APR 21	54.52	JUL 12	54.78
WATER YEAR 2004 HIGHEST		54.41	JAN 13, 2004		LOWEST		54.78
						JUL 12, 2004	



CITY OF SUFFOLK—Continued

364703076383702. Local number, 57C 22 SOW 099B.

LOCATION.--Lat 36°47'04", long 76°38'36", NAD83, Hydrologic Unit 02080208, 700 ft south of U.S. Highway 460, 0.5 mi west of Providence Church, and 1.0 mi west of Kings Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 694 ft, screened 684 to 694 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to Aug. 5, 1981, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 72 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 2.0 ft above land-surface datum prior to July 14, 1987; 1.7 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown. Missing record due to recorder malfunction.

PERIOD OF RECORD.--February 1980 to current year. Unpublished records available prior to August 1985 in files of the Virginia Department of Environmental Quality - Water Division.

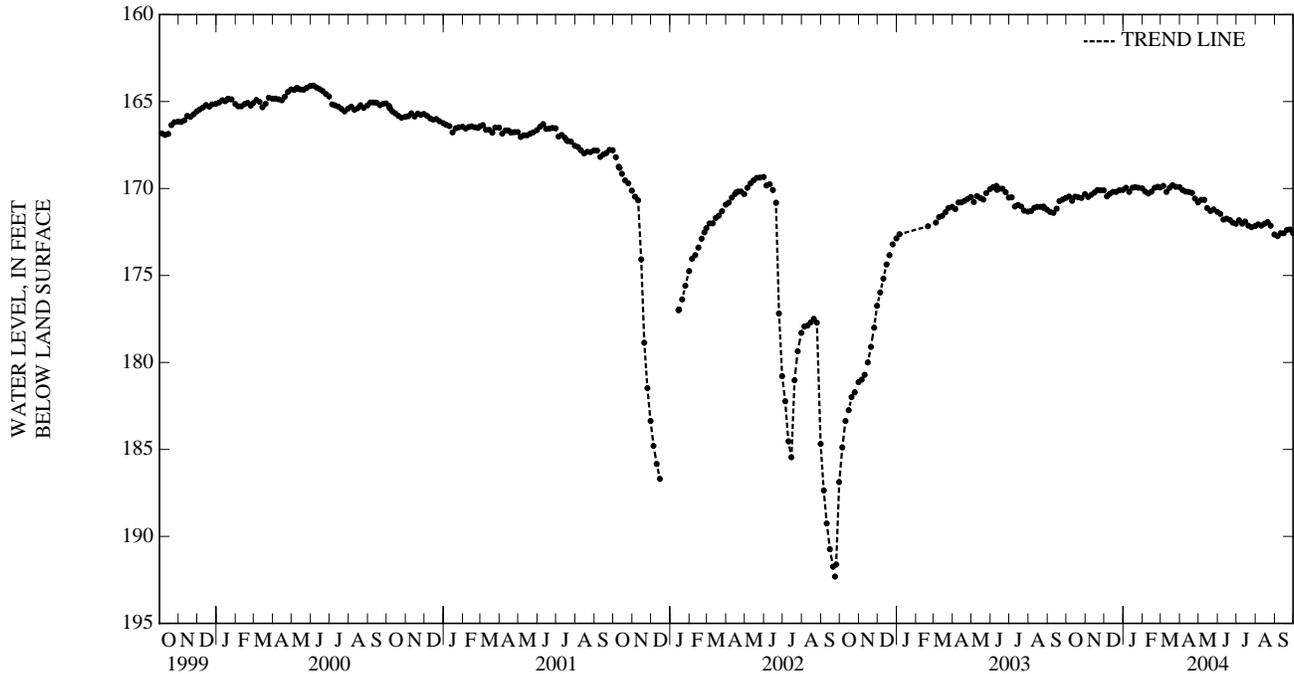
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 128.24 ft below land-surface datum, Feb. 18, 1980; lowest recorded, 192.37 ft below land-surface datum, Sept. 24, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 169.71 ft below land-surface datum, Mar. 21; lowest instantaneous water level, 172.74 ft below land-surface datum, Sept. 3-5, 9.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	170.46	170.49	170.45	169.95	170.18	169.85	170.09	170.65	171.45	171.82	172.06	172.74
10	170.70	170.36	170.31	170.20	170.28	170.20	170.18	170.66	171.79	172.03	172.14	172.57
15	170.47	170.23	170.20	169.95	170.17	169.95	170.20	171.12	171.74	171.90	172.03	172.57
20	170.50	170.09	170.20	169.92	169.96	169.81	170.25	171.29	171.81	172.13	171.93	172.39
25	170.55	170.10	170.10	169.96	169.90	169.90	170.58	171.20	171.96	172.22	172.13	172.35
EOM	170.32	170.10	170.08	170.00	169.93	169.92	170.80	171.35	172.03	172.15	172.64	172.58

WATER YEAR 2004 HIGHEST 169.81 MAR 20, 2004 LOWEST 172.74 SEP 05, 2004



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

364703076383704. Local number, 57C 24 SOW 099D.

LOCATION.--Lat 36°47'04", long 76°38'36", NAD83, Hydrologic Unit 02080208, 700 ft south of U.S. Highway 460, 0.5 mi west of Providence Church, and 1.0 mi west of Kings Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 25 ft, screened 20 to 25 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 72 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum prior to Mar. 25, 1987; 2.0 ft Mar. 25, 1987, to Jan. 12, 1988; 1.3 ft Jan. 13, 1988, to June 24, 1990; 0.3 ft June 25 to Aug. 15, 1990; 1.8 ft thereafter.

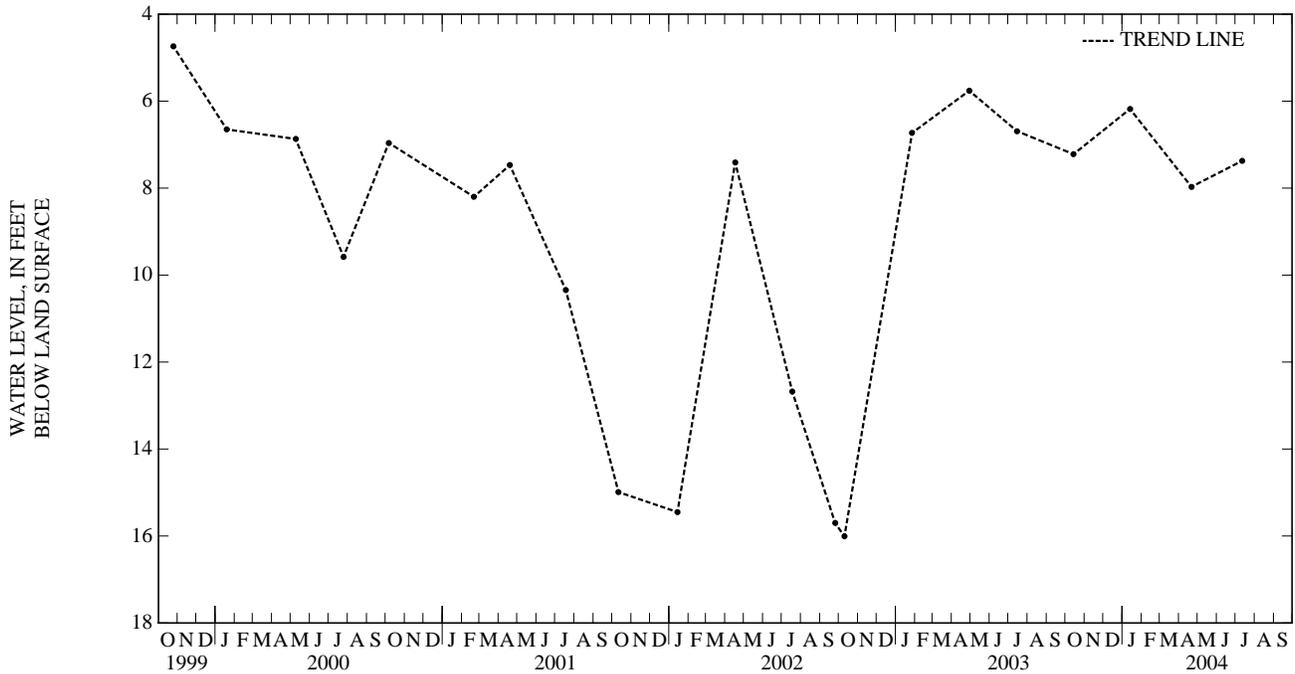
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1983 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft below land-surface datum, Mar. 14, 1989; lowest measured, 16.38 ft below land-surface datum, Oct. 15, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	7.22	JAN 13	6.18	APR 21	7.97	JUL 12	7.37
WATER YEAR 2004 HIGHEST		6.18 JAN 13, 2004	LOWEST		7.97 APR 21, 2004		



CITY OF SUFFOLK—Continued

363303076330201. Local number, 58A 75 SOW 170.

LOCATION.--Lat 36°33'04", long 76°33'01", NAD83, Hydrologic Unit 03010205, 100 ft north of North Carolina State line, 0.4 mi east of Desert Road, and 5.0 mi southeast of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 535 ft, screened 525 to 535 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 15, 1992, to July 19, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Mar. 2, 1989, to Oct. 14, 1992, occasional measurement with chalked tape by USGS. Prior to Oct. 15, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 40 ft above mean NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

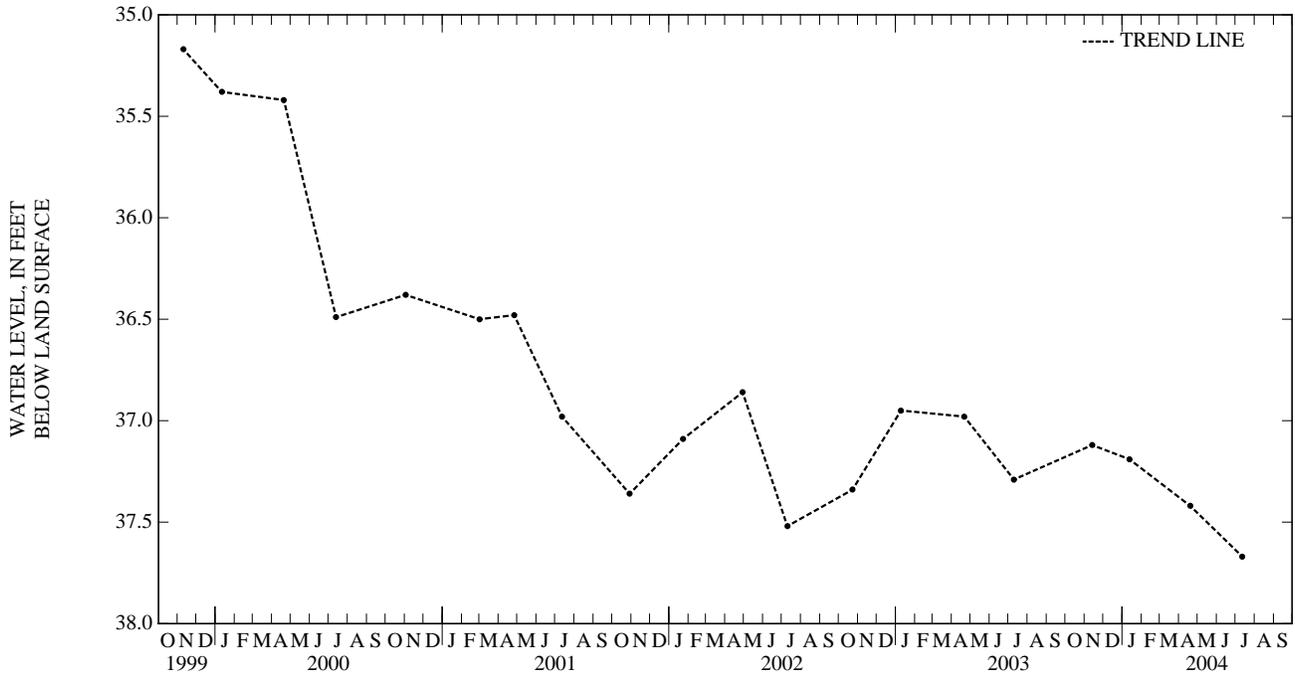
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division prior to Mar. 1, 1989; U.S. Geological Survey Mar. 2, 1989, to Oct. 14, 1992; Virginia Department of Environmental Quality - Water Division thereafter. Water level affected by regional drawdown.

PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.52 ft below land-surface datum, July 11, 1985; lowest measured, 37.67 ft below land-surface datum, July 12, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	37.12	JAN 12	37.19	APR 19	37.42	JUL 12	37.67
WATER YEAR 2004 HIGHEST		37.12	NOV 13, 2003 LOWEST		37.67	JUL 12, 2004	



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

363655076332002. Local number, 58A 77 SOW 180A.

LOCATION.--Lat 36°36'56", long 76°33'19", NAD83, Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 1,158 ft, diameter 3 in. from 1,136 to 1,209 ft, depth 1,209 ft, screened 1,199 to 1,209 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 34.02 ft above NGVD of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum prior to Apr. 15, 1992; 1.5 ft thereafter.

REMARKS.--Water level affected by regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

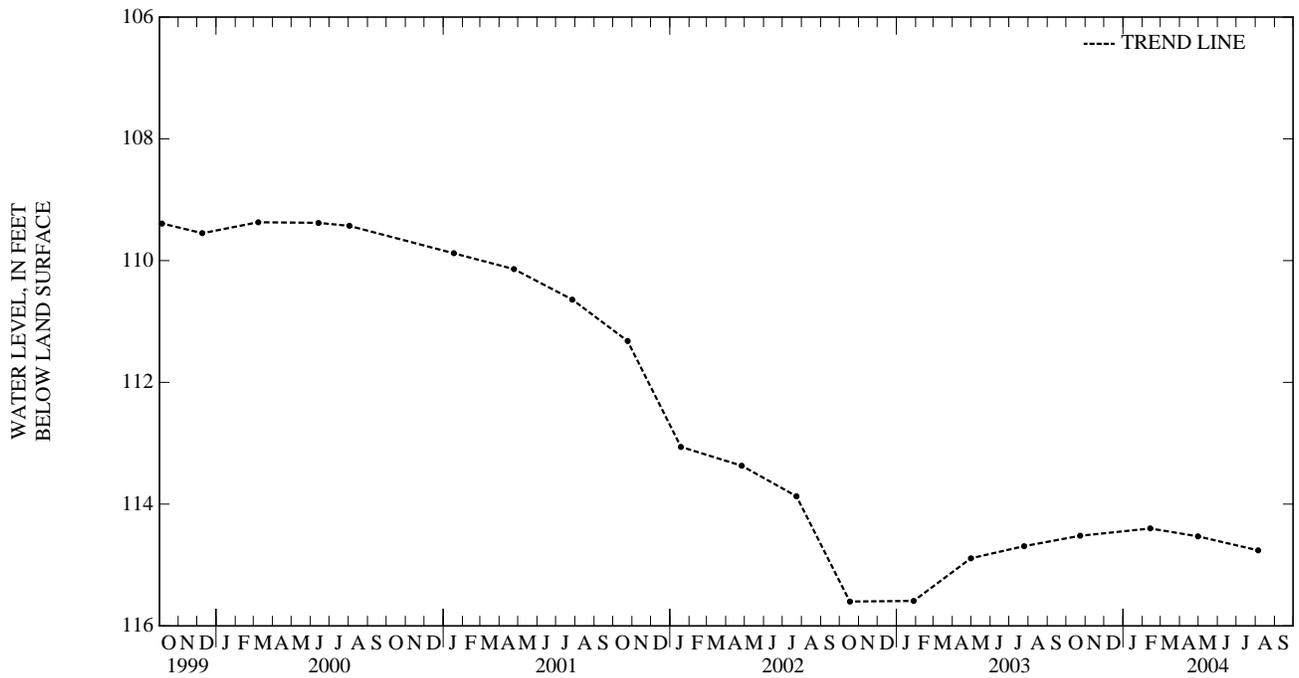
PERIOD OF RECORD.--February 1987 to current year.

REVISED RECORDS.--WDR VA-89-1: 1987.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 96.83 ft below land-surface datum, Sept. 30, 1987; lowest measured, 115.60 ft below land-surface datum, Oct. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	114.52	FEB 13	114.40	APR 30	114.53	AUG 05	114.76
WATER YEAR 2004 HIGHEST		114.40	FEB 13, 2004		LOWEST		114.76
						AUG 05, 2004	



CITY OF SUFFOLK—Continued

363655076332003. Local number, 58A 78 SOW 180B.

LOCATION.--Lat 36°36'56", long 76°33'19", NAD83, Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 811 ft, diameter 2 in. from 766 to 880 ft, depth 880 ft, screened 850 to 860 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 34.02 ft above NGVD of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum prior to April 15, 1992; 1.4 ft thereafter.

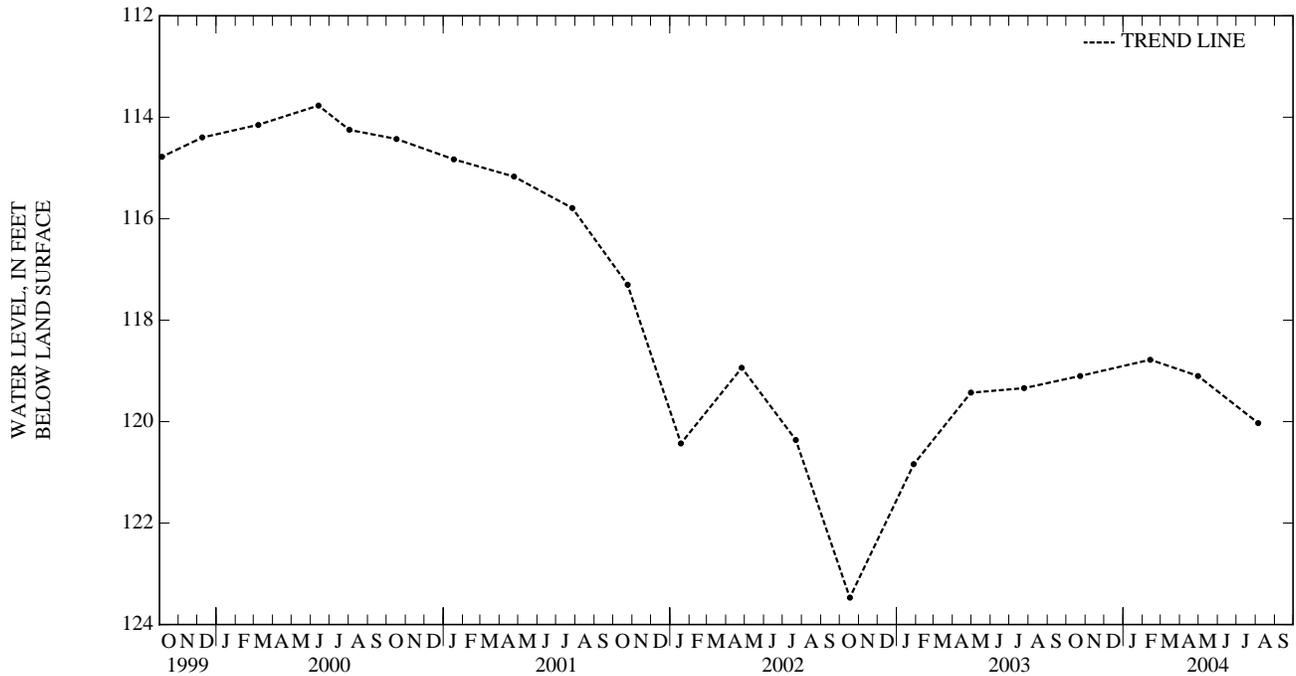
REMARKS.--Water level affected by regional drawdown and occasional pumpage for water-quality sampling.

PERIOD OF RECORD.--February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 102.14 ft below land-surface datum, June 5, 27, 1987; lowest measured, 123.47 ft below land-surface datum, Oct. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	119.10	FEB 13	118.78	APR 30	119.10	AUG 05	120.03
WATER YEAR 2004 HIGHEST		118.78	FEB 13, 2004		LOWEST		120.03
						AUG 05, 2004	



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

363655076332004. Local number, 58A 79 SOW 180C.

LOCATION.--Lat 36°36'56", long 76°33'19", NAD83, Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 670 ft, diameter 2 in. from 657 to 710 ft, depth 710 ft, screened 700 to 710 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 33.97 ft above NGVD of 1929. Measuring point: Top of casing, 2.4 ft above land-surface datum prior to Apr. 15, 1992; 1.3 ft thereafter.

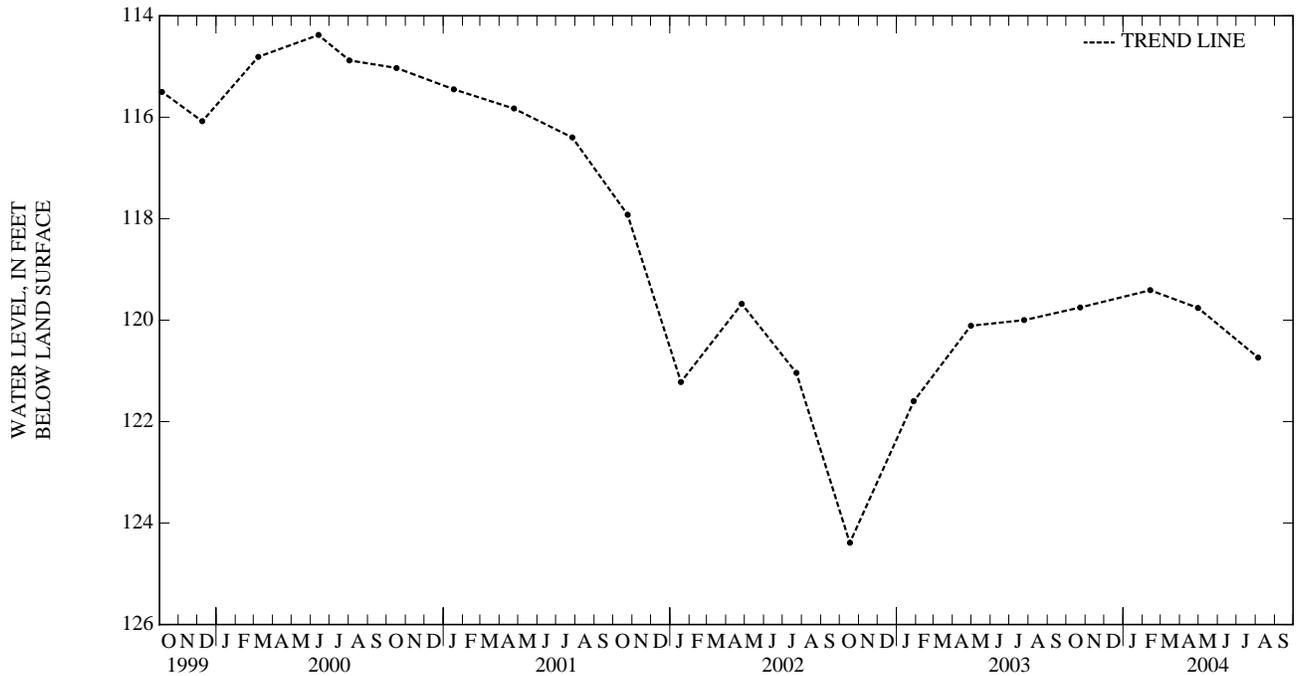
REMARKS.--Water level affected by regional drawdown and occasional pumpage from water-quality sampling.

PERIOD OF RECORD.--February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 102.72 ft below land-surface datum, May 11, 1987; lowest measured, 124.39 ft below land-surface datum, Oct. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	119.75	FEB 13	119.41	APR 30	119.76	AUG 05	120.74
WATER YEAR 2004 HIGHEST		119.41 FEB 13, 2004		LOWEST		120.74 AUG 05, 2004	



CITY OF SUFFOLK—Continued

363655076332005. Local number, 58A 80 SOW 180D.

LOCATION.--Lat 36°36'56", long 76°33'19", NAD83, Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Virginia Beach aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 397 ft, diameter 2 in. from 388 to 440 ft, depth 440 ft, screened 430 to 440 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Oct. 29, 1987 to Sept. 30, 1990, digital recorder, 60-minute punch. Prior to Oct. 29, 1987, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 34.26 ft above NGVD of 1929. Measuring point: Top of casing, 2.3 ft above land-surface datum prior to Apr. 15, 1992; 1.9 ft thereafter.

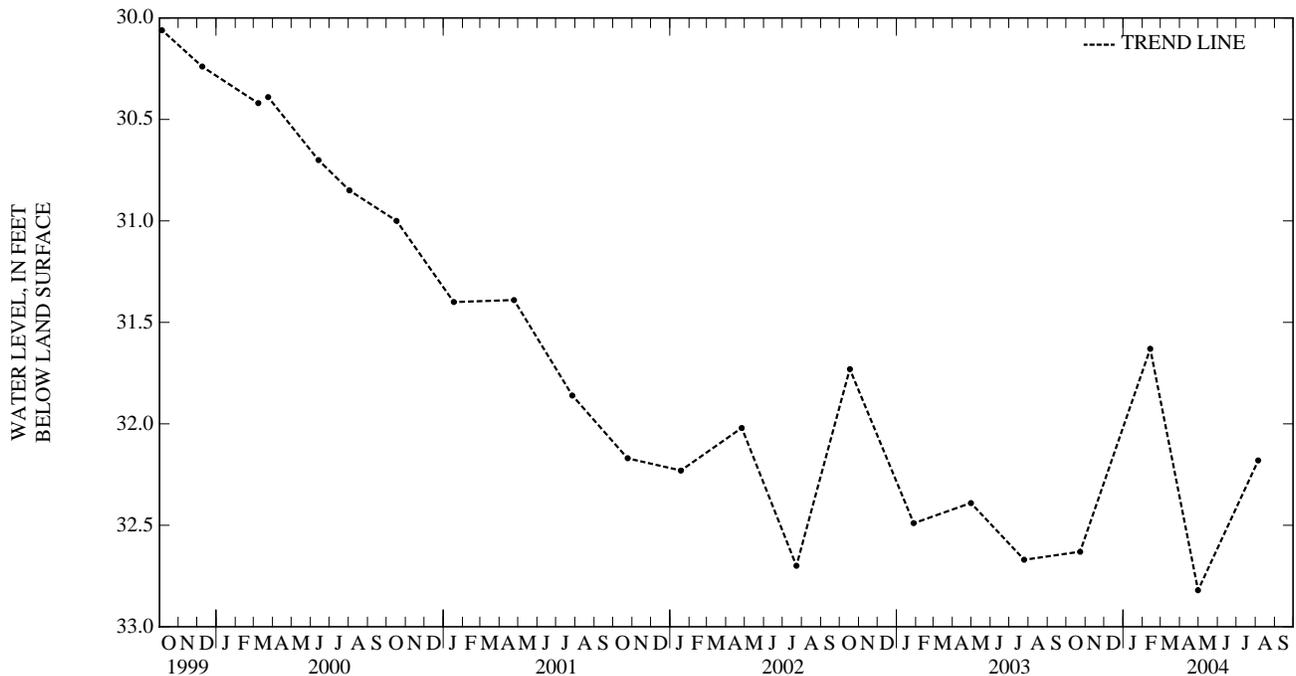
REMARKS.--Water level affected by regional drawdown.

PERIOD OF RECORD.--June 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.55 ft below land-surface datum, June 17, 1987; lowest measured, 32.82 ft below land-surface datum, Apr. 30, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	32.63	FEB 13	31.63	APR 30	32.82	AUG 05	32.18
WATER YEAR 2004 HIGHEST		31.63	FEB 13, 2004		LOWEST		32.82
				APR 30, 2004			



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

363655076332006. Local number, 58A 81 SOW 180E.

LOCATION.--Lat 36°36'56", long 76°33'19", NAD83, Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 309 ft, diameter 2 in. from 298 to 329 ft, depth 329 ft, screened 319 to 329 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Apr. 15, 1992, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 34.00 ft above NGVD of 1929. Measuring point: Top of casing, 2.4 ft above land-surface datum prior to Apr. 15, 1992; 1.4 ft thereafter.

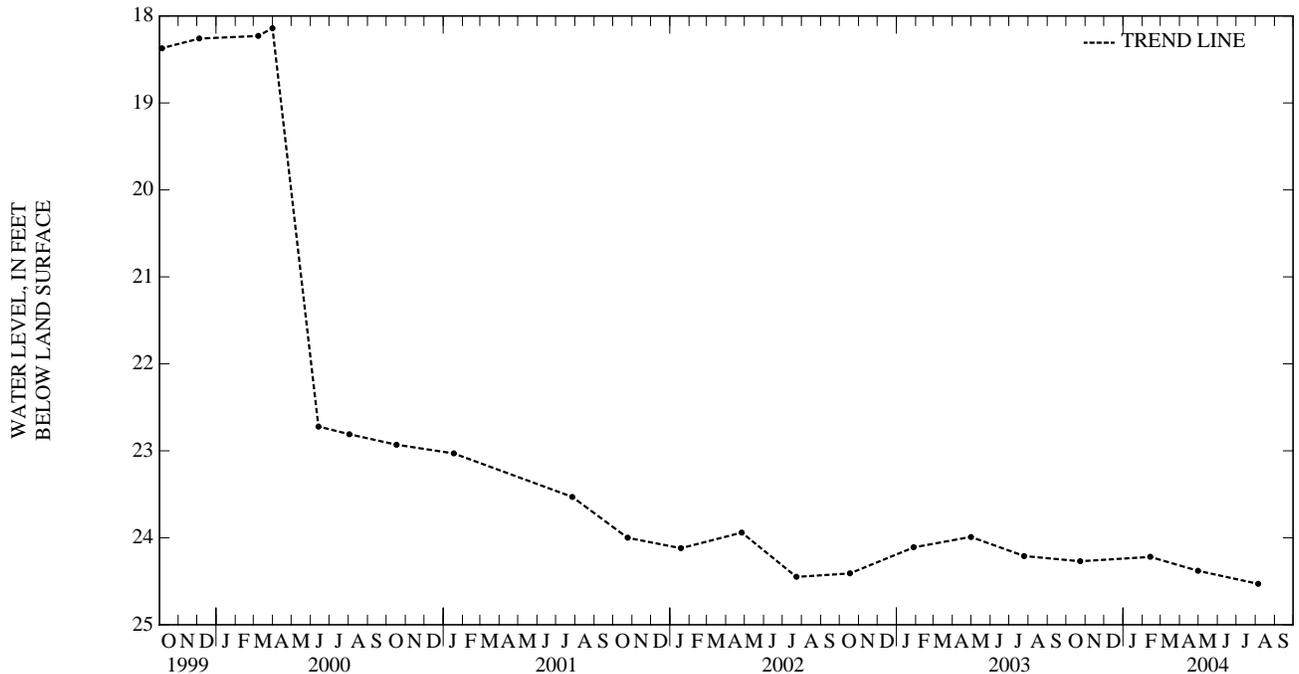
REMARKS.--Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L. Water level affected by pumpage for water-quality sampling on Mar. 31, 2000. Cause of nonrecovery to pre-pumpage level unknown.

PERIOD OF RECORD.--February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 15.07 ft below land-surface datum, Feb. 23, 1987; lowest measured, 24.53 ft below land-surface datum, Aug. 5, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	24.27	FEB 13	24.22	APR 30	24.38	AUG 05	24.53
WATER YEAR 2004 HIGHEST		24.22 FEB 13, 2004	LOWEST		24.53 AUG 05, 2004		



CITY OF SUFFOLK—Continued

363655076332008. Local number, 58A 83 SOW 180G.

LOCATION.--Lat 36°36'56", long 76°33'19", NAD83, Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 145 ft, diameter 2 in. from 135 to 165 ft, depth 165 ft, screened 155 to 165 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Feb. 15, 1996, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 33.84 ft above NGVD of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum.

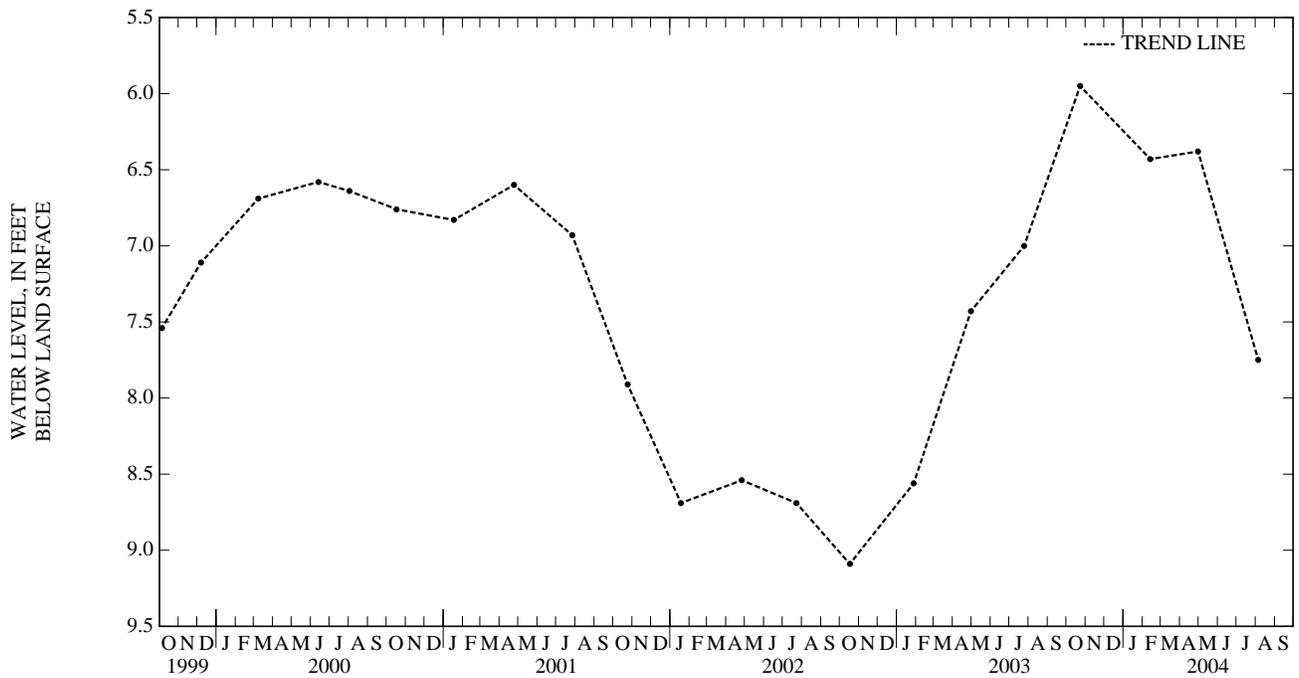
REMARKS.--Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 5.95 ft below land-surface datum, Oct. 23, 2003; lowest recorded, 9.20 ft below land-surface datum, Dec. 29, 30, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	5.95	FEB 13	6.43	APR 30	6.38	AUG 05	7.75
WATER YEAR 2004 HIGHEST		5.95	OCT 23, 2003 LOWEST		7.75	AUG 05, 2004	



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

363655076332009. Local number, 58A 84 SOW 180H.

LOCATION.--Lat 36°36'56", long 76°33'19", NAD83, Hydrologic Unit 03010205, 0.3 mi north of Great Dismal Swamp Wildlife Refuge Headquarters on Desert Road, 2.0 mi east of Cypress Chapel. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Feb. 15, 1996, digital recorder, 60-minute punch.

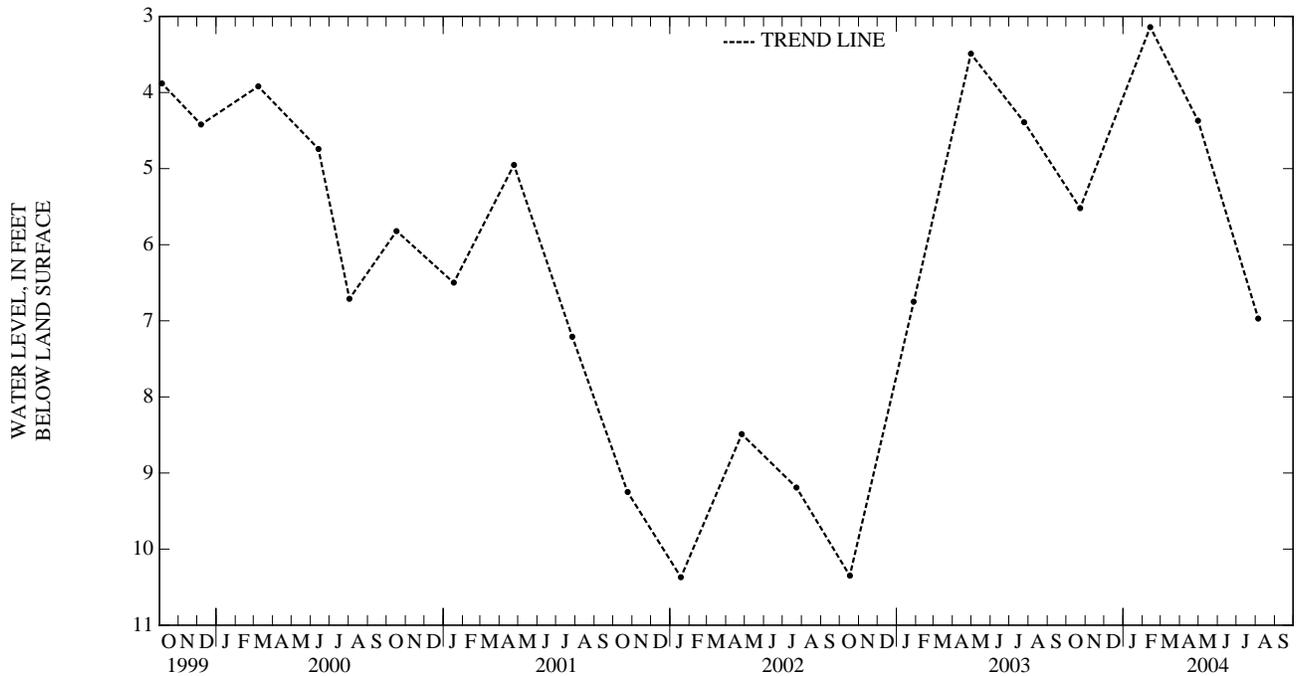
DATUM.--Elevation of land-surface datum is 33.87 ft above NGVD of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.47 ft below land-surface datum, Mar. 24, 1989; lowest measured, 10.37 ft below land-surface datum, Jan. 18, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	5.52	FEB 13	3.14	APR 30	4.37	AUG 05	6.97
WATER YEAR 2004 HIGHEST		3.14	FEB 13, 2004 LOWEST		6.97	AUG 05, 2004	



CITY OF SUFFOLK—Continued

363928076332901. Local number, 58B 13.

LOCATION.--Lat 36°39'29", long 76°33'28", NAD83, Hydrologic Unit 03010205, 700 ft east of State Highway 642, 4.0 mi south of Suffolk. Owner: Melvin Brinkley.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 22 in., depth 15 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. May 29, 1999 to Mar. 15, 2004, electronic data logger, 60-minute record interval. Mar. 2, 1994 to May 29, 1999, digital recorder, 60-minute punch. Sept. 20, 1993 to Mar. 2, 1994, occasional measurement with chalked tape by USGS personnel. Jan. 24, 1981, to Sept. 20, 1993, digital recorder 60-minute punch. Prior to Jan. 24, 1981, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 40 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 1.9 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction.

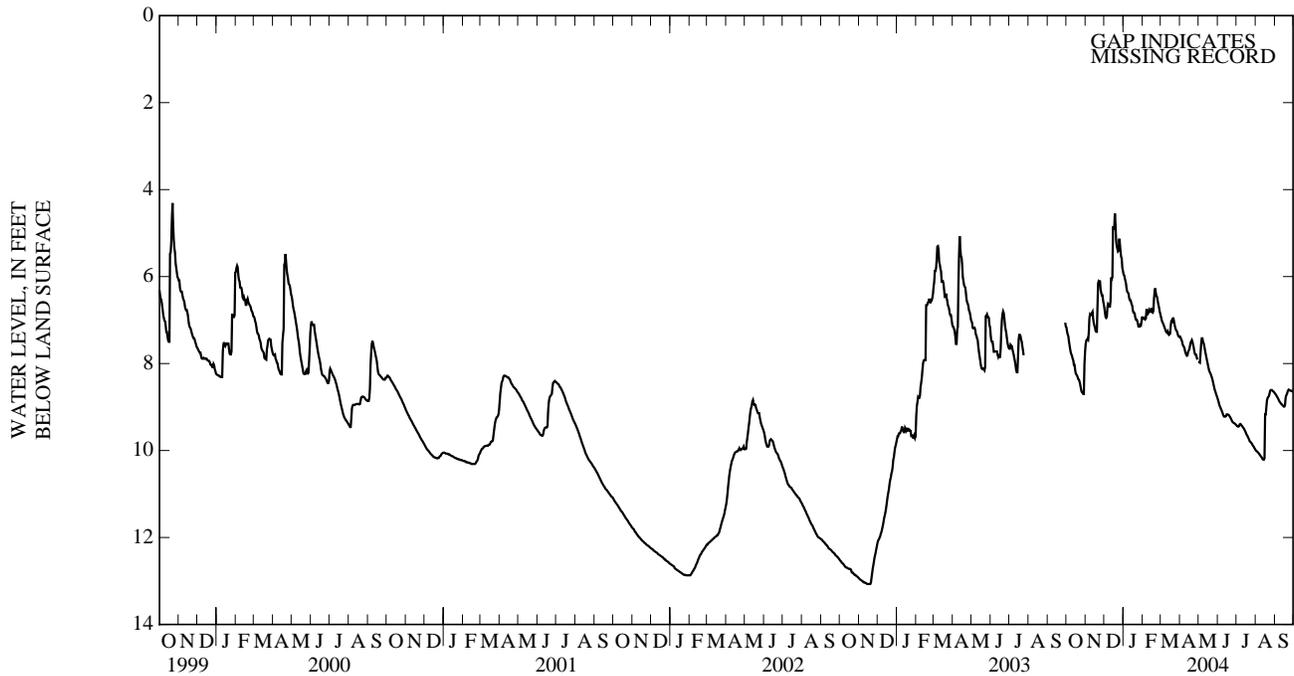
PERIOD OF RECORD.--March 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.59 ft below land-surface datum, Sept. 16, 1999; lowest recorded, 13.44 ft below land-surface datum, Jan. 23-26, 1981.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 4.30 ft below land-surface datum, Dec. 14; lowest instantaneous water level, 10.21 ft below land-surface datum, Aug. 13, 14.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.49	7.45	6.93	6.17	6.98	7.09	7.55	7.55	9.01	9.44	10.05	8.78
10	7.83	6.88	6.69	6.49	6.81	7.28	7.76	7.60	9.20	9.44	10.15	8.91
15	8.15	7.13	4.85	6.67	6.72	7.33	7.70	7.97	9.17	9.56	10.18	8.99
20	8.36	6.68	5.17	6.95	6.35	7.02	7.46	8.23	9.22	9.71	8.79	8.71
25	8.63	6.30	5.13	7.15	6.56	7.21	7.78	8.49	9.35	9.83	8.61	8.62
EOM	7.73	6.63	5.87	6.92	6.85	7.39	---	8.78	9.41	9.97	8.67	8.65



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

364318076365501. Local number, 58B268 SOW 169A.

LOCATION.--Lat 36°43'19", long 76°36'54", NAD83, Hydrologic Unit 02080208, 500 ft north of Norfolk and Western Railroad near Lake Kilby, 0.5 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quarternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 12 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum.

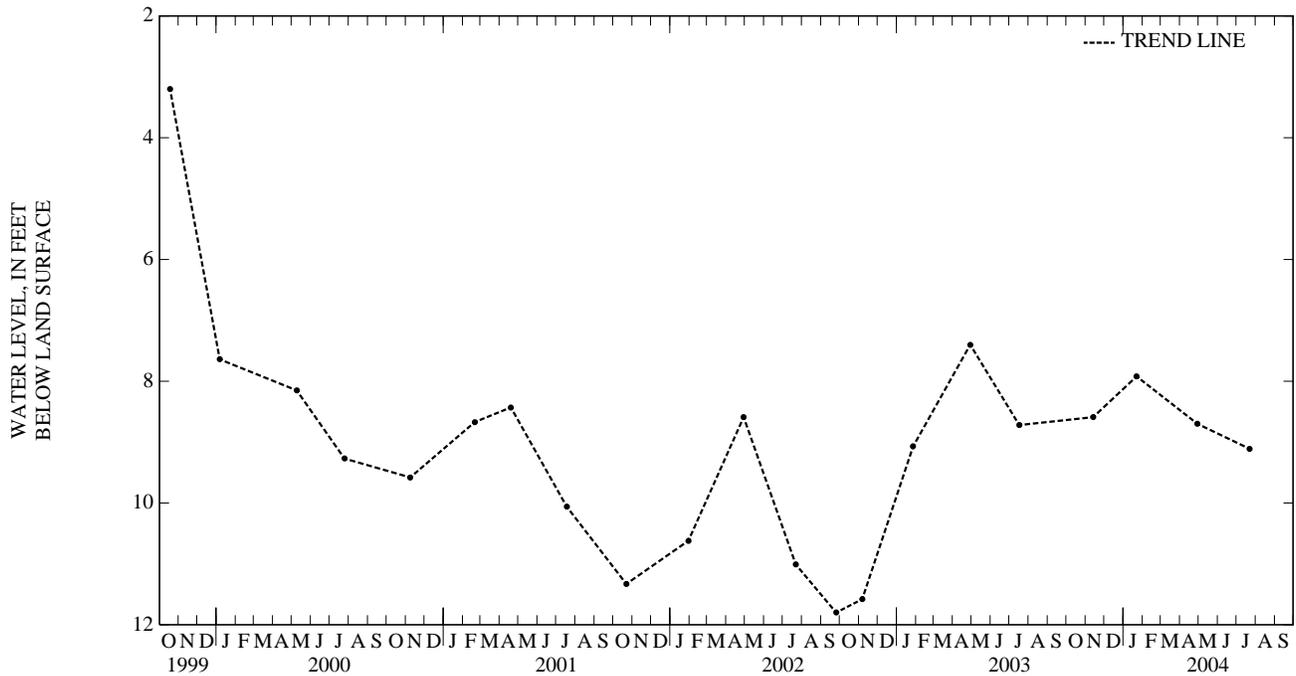
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.20 ft below land-surface datum, Oct. 18, 1999; lowest measured, 11.86 ft below land-surface datum, Oct. 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	8.59	JAN 22	7.92	APR 29	8.70	JUL 22	9.11
WATER YEAR 2004 HIGHEST		7.92 JAN 22, 2004	LOWEST		9.11 JUL 22, 2004		



CITY OF SUFFOLK—Continued

364318076365502. Local number, 58B269 SOW 169B.

LOCATION.--Lat 36°43'19", long 76°36'54", NAD83, Hydrologic Unit 02080202, 500 ft north of Norfolk and Western Railroad near Lake Kilby, 0.5 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 360 ft, screened 350 to 360 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

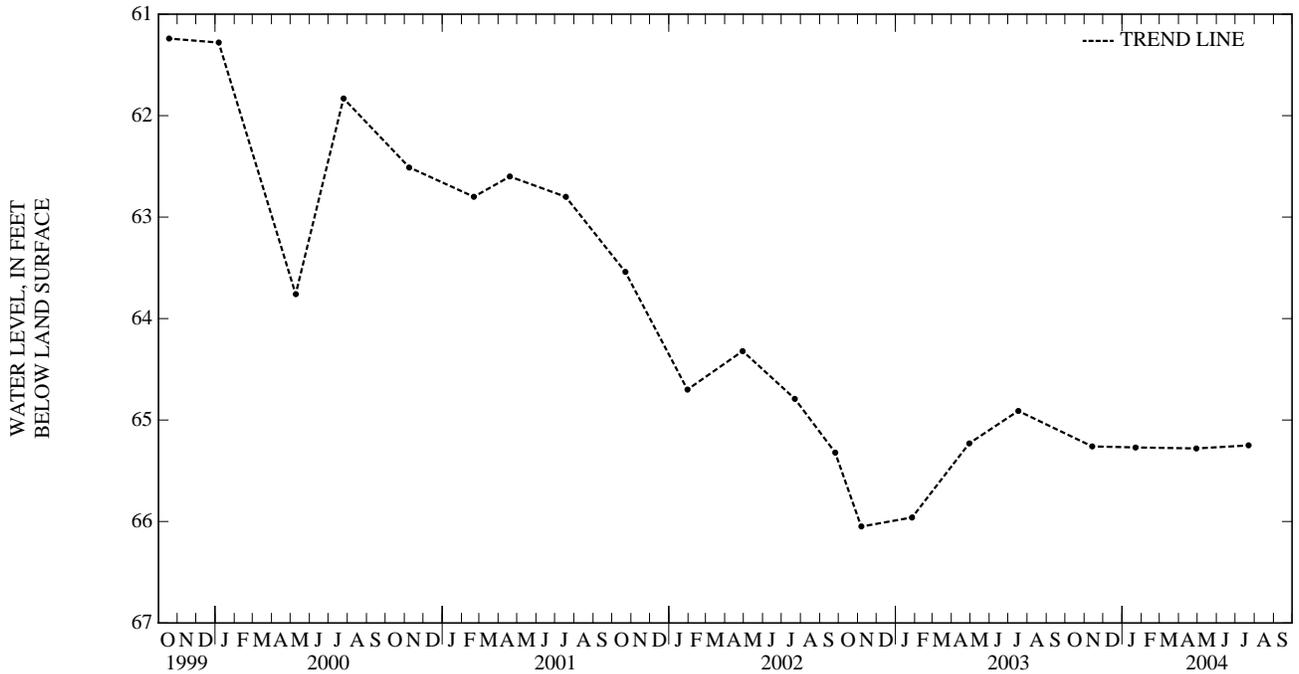
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.06 ft below land-surface datum, July 8, 1985; lowest measured, 66.05 ft below land-surface datum, Nov. 6, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	65.26	JAN 22	65.27	APR 29	65.28	JUL 22	65.25
WATER YEAR 2004 HIGHEST 65.25 JUL 22, 2004		LOWEST 65.28 APR 29, 2004					



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

364318076365503. Local number, 58B270 SOW 169C.

LOCATION.--Lat 36°43'19", long 76°36'54", NAD83, Hydrologic Unit 02080208, 500 ft north of Norfolk and Western Railroad near Lake Kilby, 0.5 mi west of Suffolk. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 500 ft, screened 490 to 500 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to July 19, 1995, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 35 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

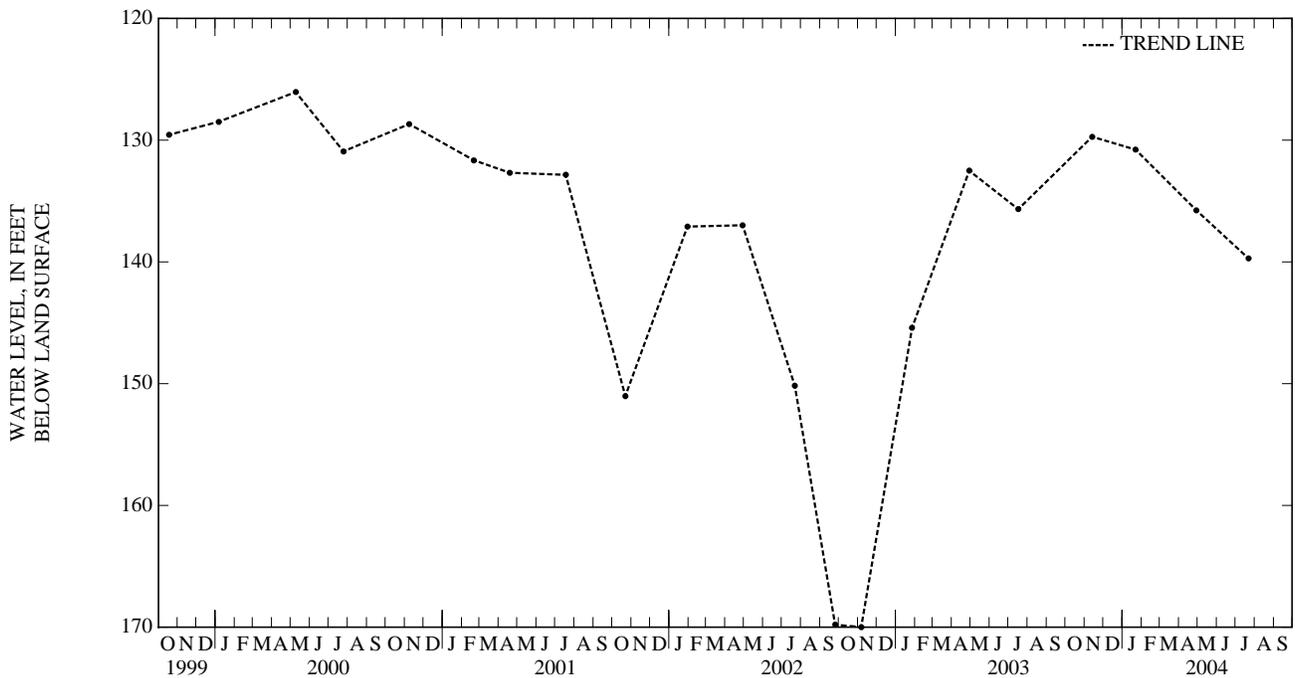
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 112.59 ft below land-surface datum, Feb. 25, 1986; lowest measured, 169.99 ft below land-surface datum, Nov. 6, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	129.72	JAN 22	130.78	APR 29	135.77	JUL 22	139.72
WATER YEAR 2004 HIGHEST 129.72		NOV 13, 2003		LOWEST 139.72		JUL 22, 2004	



CITY OF SUFFOLK—Continued

364348076363201. Local number, 58B273 SOW 169F.

LOCATION.--Lat 36°43'49", long 76°36'31", NAD83, Hydrologic Unit 02080208, 100 ft south of U.S. Highway 58 near Lake Kilby, 0.2 mi west of Suffolk.
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 661 ft, screened 541 to 546 ft, 567 to 572 ft, 635 to 640 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 2, 1992, to July 19, 1995, bimonthly measurement with chalked tape. Nov. 5, 1986, to Oct. 1, 1992, continuous strip-chart recorder. Prior to Nov. 5, 1986, bimonthly measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 26 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.2 ft above land-surface datum.

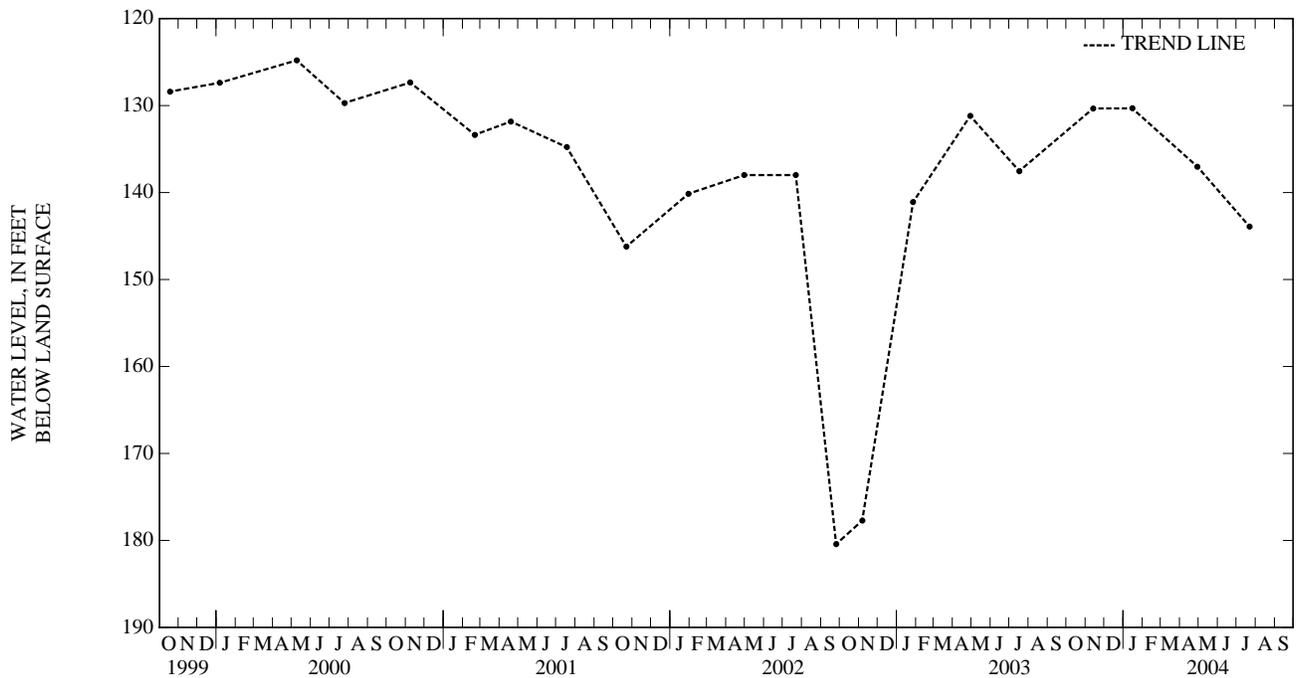
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--July 1985 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 111.00 ft below land-surface datum, July 18, 1991; lowest recorded, 180.43 ft below land-surface datum, Sept. 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	130.33	JAN 15	130.32	APR 29	137.03	JUL 22	143.92
WATER YEAR 2004 HIGHEST 130.32 JAN 15, 2004		LOWEST 143.92 JUL 22, 2004					



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

365133076351201. Local number, 58C 57 SOW 141A.

LOCATION.--Lat 36°51'34", long 76°35'11", NAD83, Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 122 ft, screened 112 to 122 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 8, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 52 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum prior to Jan. 12, 1988; 1.0 ft Jan. 12, 1988, to Nov. 12, 1991; 2.4 ft Nov. 13, 1991 to July 9, 1998; 1.80 ft thereafter.

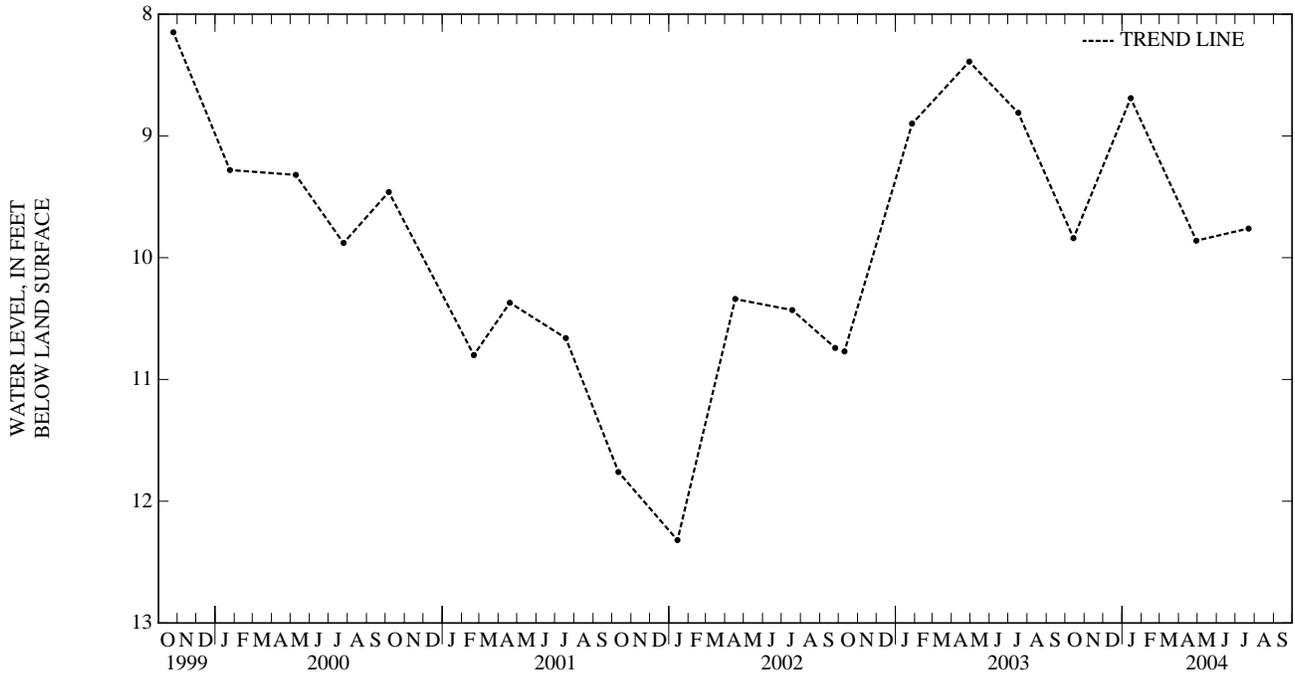
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--February 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.90 ft below land-surface datum, Jan. 21, 1998; lowest measured, 12.32 ft below land-surface datum, Jan. 14, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	9.84	JAN 14	8.69	APR 29	9.86	JUL 22	9.76
WATER YEAR 2004 HIGHEST		8.69	JAN 14, 2004 LOWEST		9.86	APR 29, 2004	



CITY OF SUFFOLK—Continued

365133076351202. Local number, 58C 58 SOW 141B.

LOCATION.--Lat 36°51'34", long 76°35'11", NAD83, Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 605 ft, screened 595 to 605 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. July 20, 1995 to Mar. 12, 1997, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 8, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 52 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.5 ft above land-surface datum prior to Jan. 12, 1988; 1.5 ft Jan. 12, 1988, to Mar. 12, 1997; 2.38 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown. Missing record due to recorder malfunction.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

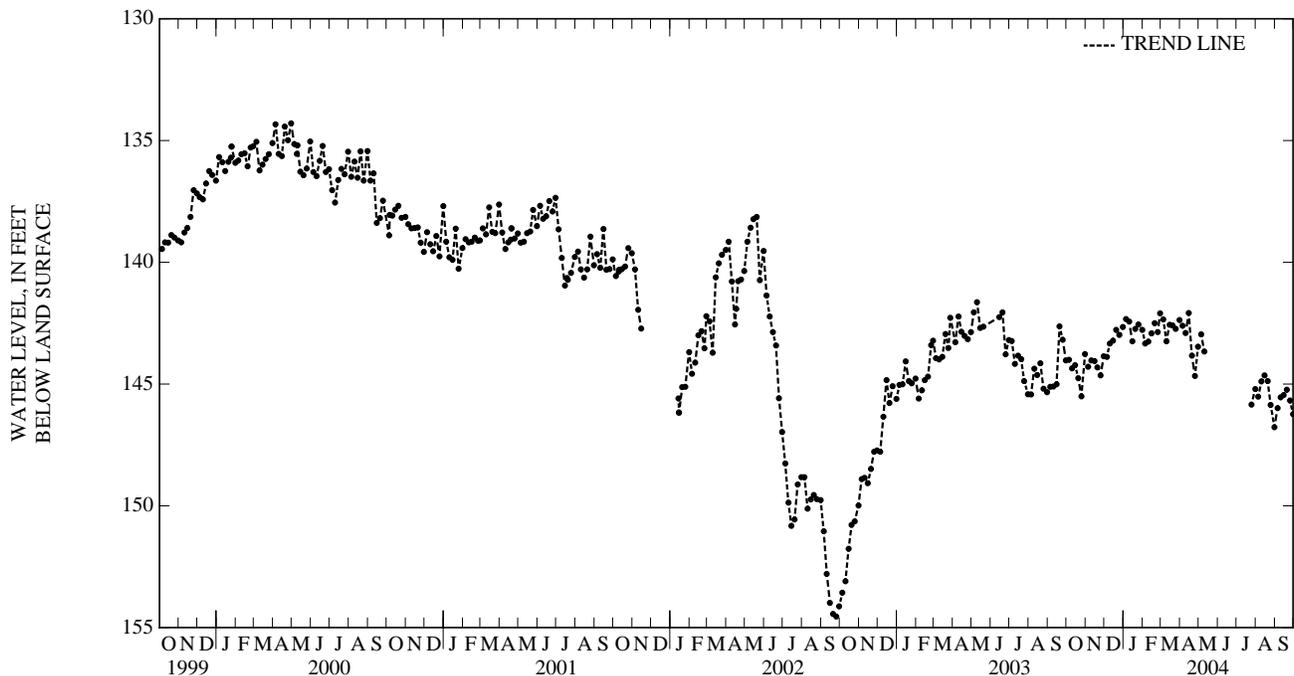
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.60 ft below land-surface datum, Apr. 24, 1980; lowest measured, 155.22 ft below land-surface datum, Sept. 24, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 141.11 ft below land-surface datum, Jan. 19; lowest instantaneous water level, 146.77 ft below land-surface datum, Aug. 31.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	144.00	144.29	143.88	142.33	143.33	142.34	142.61	142.96	---	---	145.52	145.99
10	144.36	144.03	143.33	142.44	143.26	143.24	142.90	143.66	---	---	144.89	145.55
15	144.23	144.06	143.22	143.24	142.92	142.56	142.08	---	---	---	144.64	145.45
20	144.76	144.32	142.78	142.73	142.50	142.59	143.83	---	---	---	144.88	145.23
25	145.50	144.64	142.98	142.55	142.87	142.73	144.67	---	---	145.84	145.86	145.68
EOM	143.77	143.86	142.66	142.77	142.09	142.37	143.47	---	---	145.20	146.77	146.24

WATER YEAR 2004 HIGHEST 142.08 APR 15, 2004 LOWEST 146.77 AUG 31, 2004



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

365133076351203. Local number, 58C 59 SOW 141C.

LOCATION.--Lat 36°51'34", long 76°35'11", NAD83, Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 447 ft, screened 437 to 447 ft.

INSTRUMENTATION.--Continuous strip-chart recorder. Prior to May 5, 1981, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 52 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Missing record due to recorder malfunction. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--April 1980 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

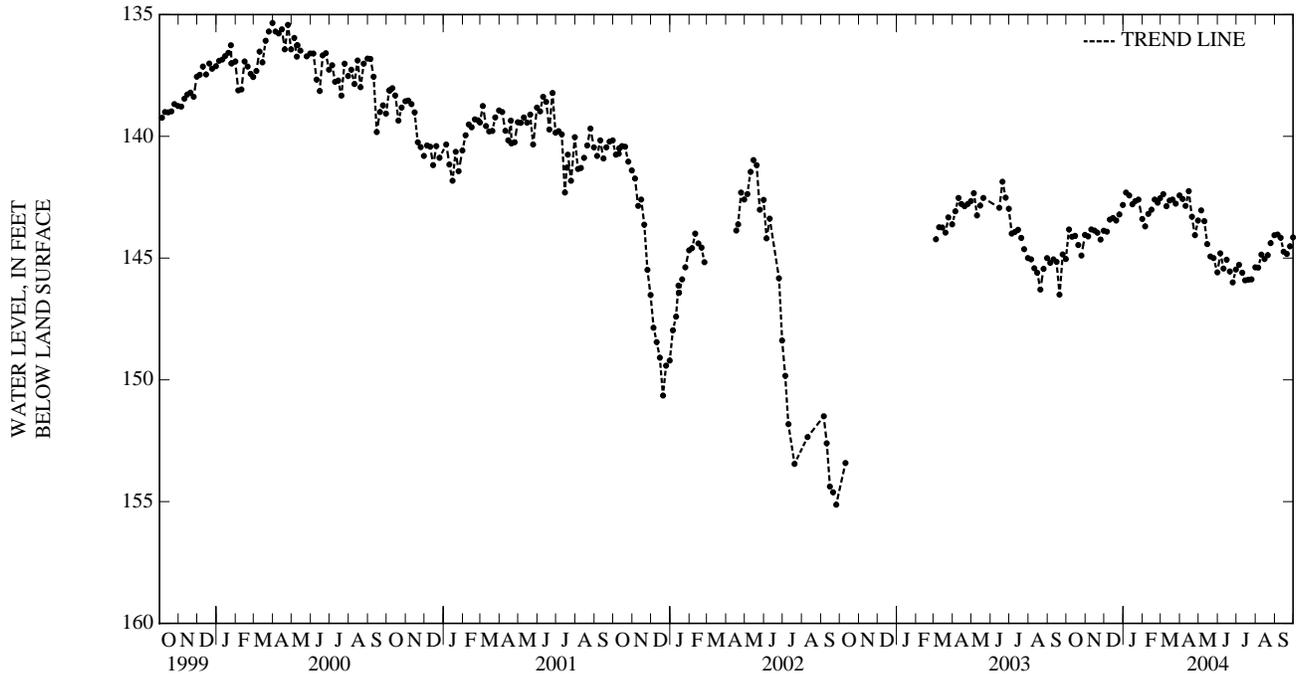
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.80 ft below land-surface datum, June 30, 1980; lowest recorded, 156.02 ft below land-surface datum, Oct. 1, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 142.00 ft below land-surface datum, Jan. 6, 11, 18, 19; lowest instantaneous water level, 146.15 ft below land-surface datum, July 22.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	143.83	144.11	143.92	142.31	143.70	142.37	142.57	143.04	144.81	145.27	145.39	144.03
10	144.13	143.82	143.42	142.43	143.18	142.87	142.86	143.48	145.43	145.60	144.86	144.16
15	144.09	143.87	143.35	142.79	143.01	142.64	142.25	144.42	145.07	145.92	145.04	144.74
20	144.46	143.95	143.46	142.66	142.59	142.60	143.30	144.94	145.55	145.89	144.88	144.83
25	144.90	144.24	143.21	142.60	142.73	142.77	144.06	145.00	146.00	145.87	144.38	144.52
EOM	144.05	143.88	142.82	143.39	142.54	142.43	143.46	145.59	145.47	145.38	144.06	144.15

WATER YEAR 2004 HIGHEST 142.25 APR 15, 2004 LOWEST 146.00 JUN 25, 2004



CITY OF SUFFOLK—Continued

365133076351204. Local number, 58C 60 SOW 141D.

LOCATION.--Lat 36°51'34", long 76°35'11", NAD83, Hydrologic Unit 02080208, 500 ft west of old Chuckatuck High School in Chuckatuck. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 19, 1995, bimonthly measurement with chalked tape. Prior to Oct. 8, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 50 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum prior to Jan. 12, 1988; 1.0 ft thereafter.

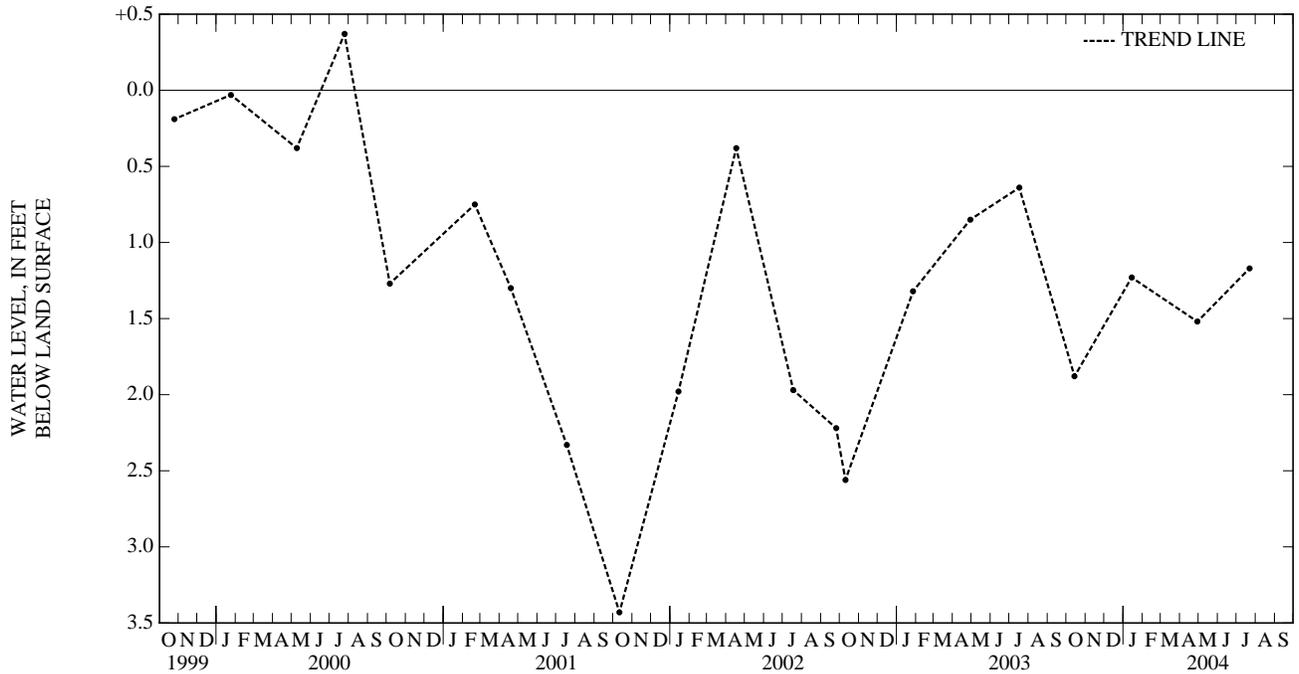
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--February 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.37 ft above land-surface datum, July 25, 2000; lowest measured, 4.20 ft below land-surface datum, Oct. 15, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	1.88	JAN 14	1.23	APR 29	1.52	JUL 22	1.17
WATER YEAR 2004 HIGHEST		1.17	JUL 22, 2004 LOWEST		1.88	OCT 14, 2003	



GROUND-WATER LEVELS
CITY OF SUFFOLK—Continued

364731076355501. Local number, 58C 61 SOW 159A.

LOCATION.--Lat 36°47'32", long 76°35'54", NAD83, Hydrologic Unit 02080208, 0.5 mi northwest of intersection of State Highways 622 and 634, 2.3 mi northwest of Elephant Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 25 ft, screened 20 to 25 ft, sounded to 17.50 ft on Jul. 8, 1985, redrilled to 25 ft on May 15, 1990.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 26, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 40 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum prior to June 25, 1990; 1.55 ft thereafter.

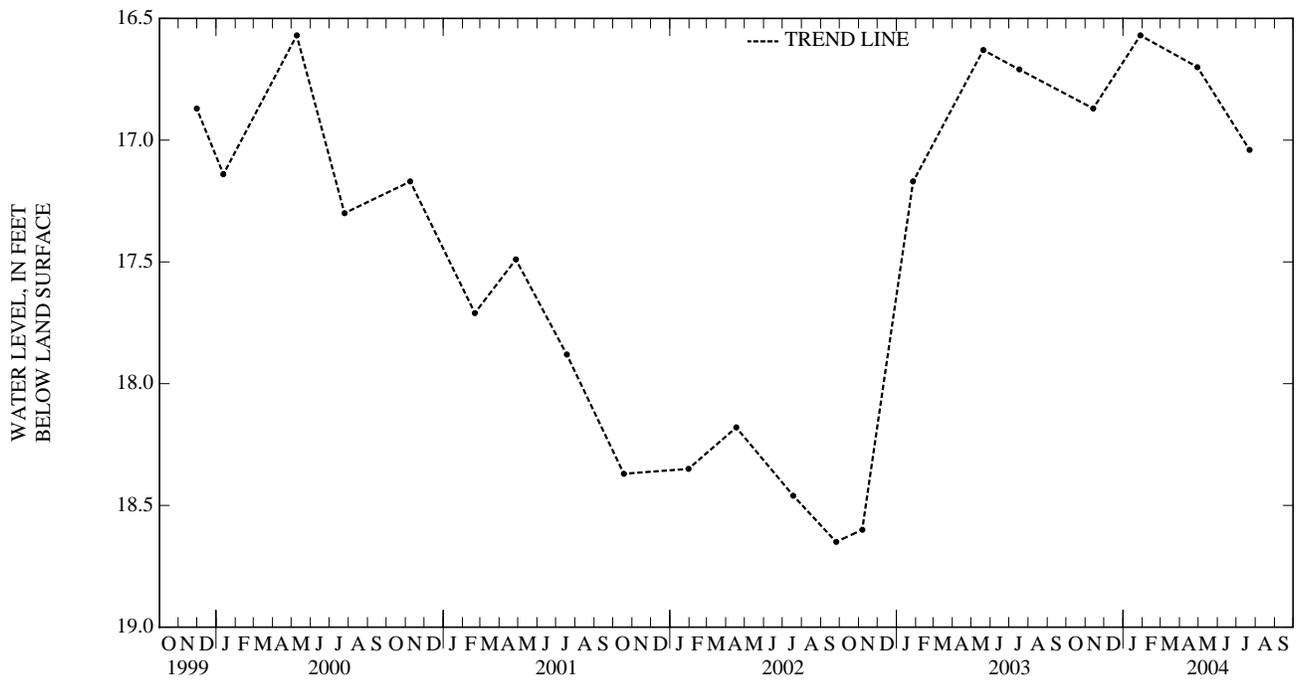
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Well reported dry several days in 1985-1990.

PERIOD OF RECORD.--June 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.95 ft below land-surface datum, Apr. 19, 1984; lowest measured, 18.70 ft below land-surface datum, Oct. 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	16.87	JAN 28	16.57	APR 29	16.70	JUL 22	17.04
WATER YEAR 2004 HIGHEST		16.57 JAN 28, 2004		LOWEST		17.04 JUL 22, 2004	



CITY OF SUFFOLK—Continued

364731076355502. Local number, 58C 62 SOW 159B.

LOCATION.--at 36°47'32", long 76°35'54", NAD83, Hydrologic Unit 02080208, 0.5 mi northwest of intersection of State Highways 622 and 634, 2.3 mi northwest of Elephant Fork. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 2 in., depth 575 ft, screened 555 to 575 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 26, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 40 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

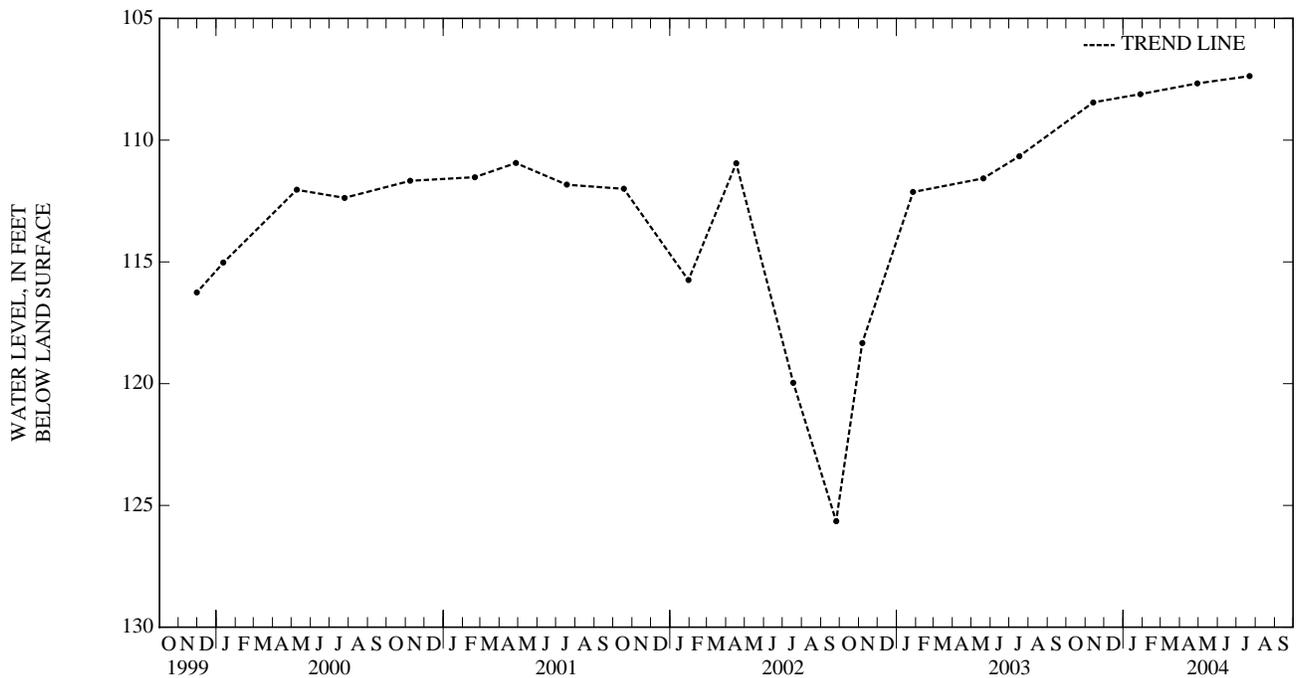
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level may be affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--June 1981 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 107.37 ft below land-surface datum, July 22, 2004; lowest measured, 169.26 ft below land-surface datum, Jan. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	108.45	JAN 28	108.11	APR 29	107.67	JUL 22	107.37
WATER YEAR 2004 HIGHEST 107.37 JUL 22, 2004		LOWEST 108.45 NOV 13, 2003					



GROUND-WATER LEVELS

SURRY COUNTY

370800076500701. Local number, 56F 2 SOW 039.

LOCATION.--Lat 37°08'01", long 76°50'06", NAD83, Hydrologic Unit 02080206, off State Highway 10, at Surry County Administration building in Surry.
Owner: Town of Surry.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 367 ft, screened 350 to 362 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 8, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Jan. 10, 1976, to Oct. 7, 1985, occasional measurement with chalked tape. Mar. 15, 1971, to Jan. 10, 1976, continuous strip-chart recorder. Prior to Mar. 15, 1971, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 122 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.1 ft above land-surface datum.

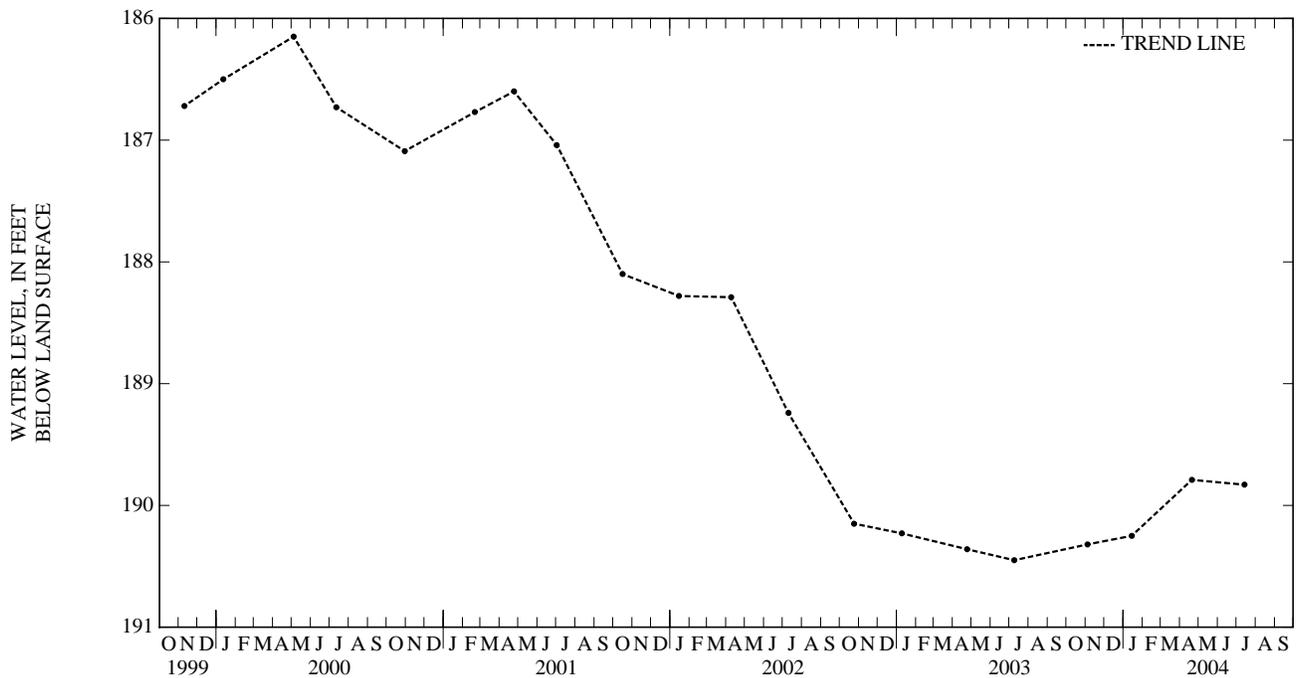
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1970 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 146.43 ft below land-surface datum, Mar. 25, 1971; lowest measured, 190.45 ft below land-surface datum, July 9, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	190.32	JAN 14	190.25	APR 20	189.79	JUL 14	189.83
WATER YEAR 2004 HIGHEST		189.79 APR 20, 2004		LOWEST		190.32 NOV 04, 2003	



GROUND-WATER LEVELS
SURRY COUNTY—Continued

370712076413201. Local number, 57E 11 SOW 094A.

LOCATION.--Lat 37°07'13", long 76°41'31", NAD83, Hydrologic Unit 02080206, 0.5 mi east of State Highway 690, 2.5 mi northwest of Bacons Castle.
Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 605 ft, screened 595 to 605 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

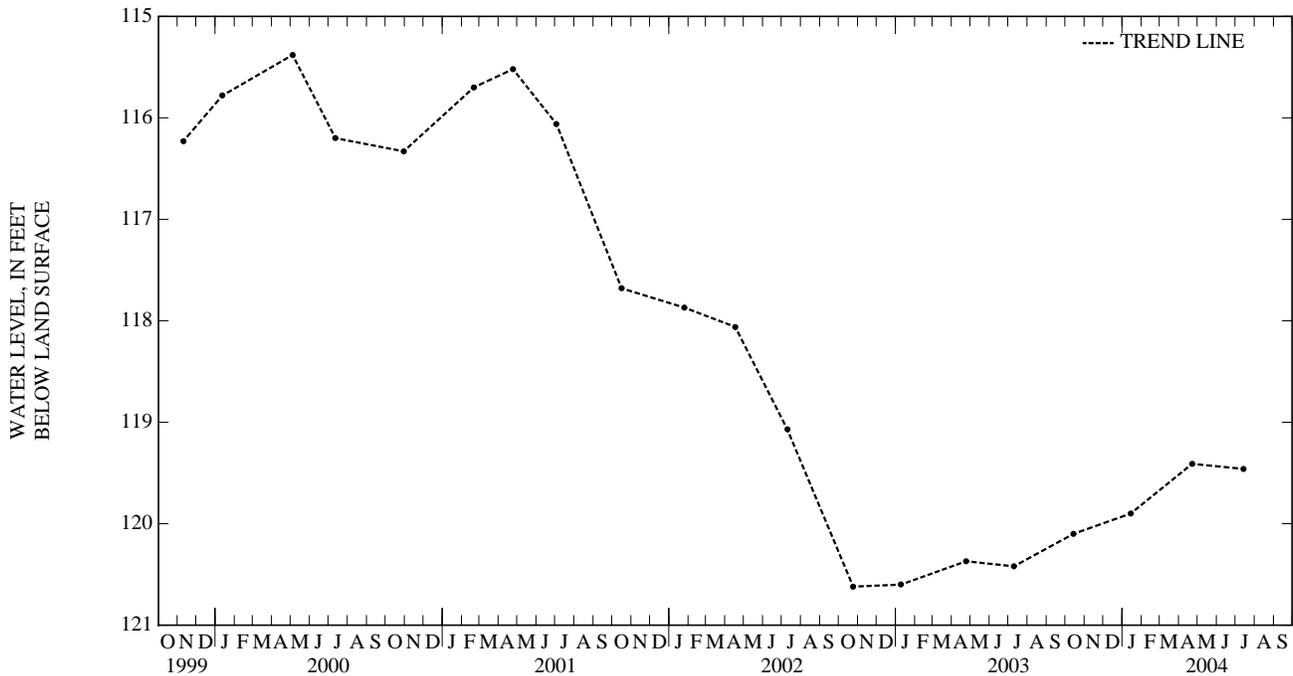
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.19 ft below land-surface datum, July 24, 1980; lowest measured, 120.62 ft below land-surface datum, Oct. 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	120.10	JAN 14	119.90	APR 22	119.41	JUL 14	119.46
WATER YEAR 2004 HIGHEST		119.41	APR 22, 2004 LOWEST		120.10	OCT 14, 2003	



GROUND-WATER LEVELS
SURRY COUNTY—Continued

370712076413203. Local number, 57E 13 SOW 094C.

LOCATION.--Lat 37°07'13", long 76°41'31", NAD83, Hydrologic Unit 02080206, 0.5 mi east of State Highway 690, 2.5 mi northwest of Bacons Castle.
Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in. to 41 ft, diameter 3 in. from 41 to 46 ft, depth 46 ft, screened 41 to 46 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. July 10, 1995 to Mar. 3, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 45 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum prior to Oct. 14, 2003; top of shelf, 2.49 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.90 ft below land-surface datum, May 29, 1980; lowest measured, 11.17 ft below land-surface datum, Dec. 13, 1981.

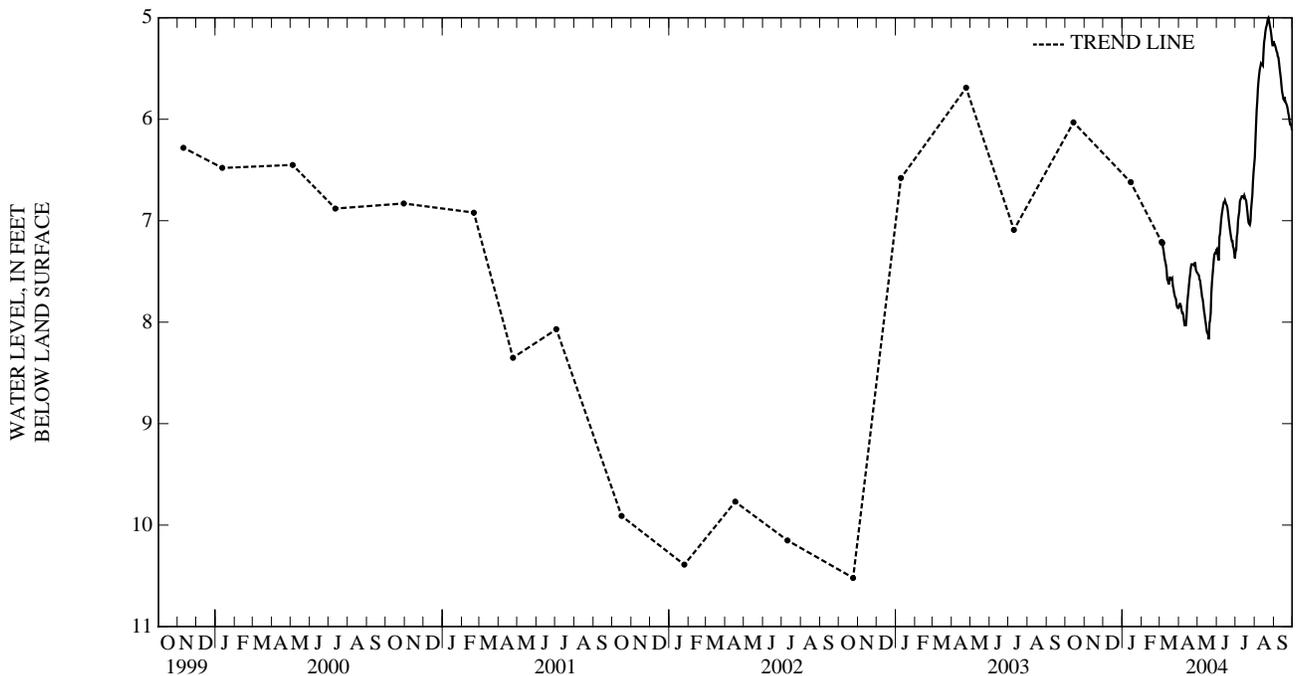
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 4.98 ft below land-surface datum, Aug. 23; lowest instantaneous water level, 8.17 ft below land-surface datum, May 19.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	7.22	7.88	7.59	7.16	7.00	5.82	5.33
10	---	---	---	---	---	7.41	8.03	7.82	6.89	6.78	5.48	5.50
15	---	---	---	---	---	7.62	7.76	8.06	6.82	6.75	5.34	5.76
20	---	---	---	---	---	7.58	7.46	8.01	6.99	6.91	5.08	5.84
25	---	---	---	---	---	7.74	7.44	7.53	7.20	7.01	5.07	5.97
EOM	---	---	---	---	---	7.86	7.51	7.29	7.37	6.45	5.23	6.11

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	6.03	JAN 14	6.62	APR 22	7.41	JUL 14	6.75
WATER YEAR 2004 HIGHEST 6.03 OCT 14, 2003		LOWEST 7.41 APR 22, 2004					



371132076405501. Local number, 57F 16 SOW 087A.

LOCATION.--Lat 37°11'33", long 76°40'54", NAD83, Hydrologic Unit 02080206, at the end of State Highway 650 in Homewood, 7.6 mi northeast of Bacons Castle. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 1,206 ft, screened 1,170 to 1,185 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

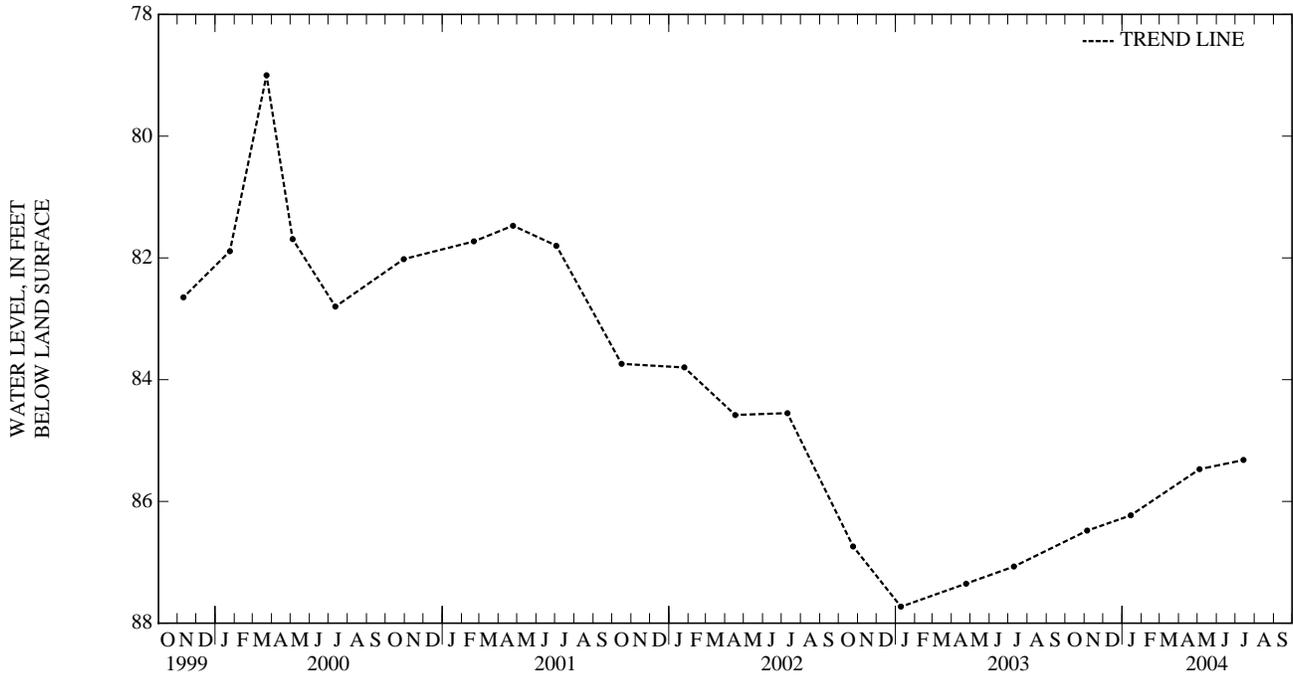
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.22 ft below land-surface datum, July 20, 1978; lowest measured, 87.73 ft below land-surface datum, Jan. 9, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	86.48	JAN 14	86.23	MAY 04	85.47	JUL 14	85.32
WATER YEAR 2004 HIGHEST		85.32	JUL 14, 2004		LOWEST		86.48
NOV 05, 2003							



GROUND-WATER LEVELS
SURRY COUNTY—Continued

371132076405502. Local number, 57F 24 SOW 087B.

LOCATION.--Lat 37°11'33", long 76°40'54", NAD83, Hydrologic Unit 02080206, at the end of State Highway 650 in Homewood, 7.6 mi northeast of Bacons Castle. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 520 ft, screened 510 to 520 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 7, 1985, to July 10, 1995, bimonthly measurement with chalked tape. Prior to Oct. 7, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum.

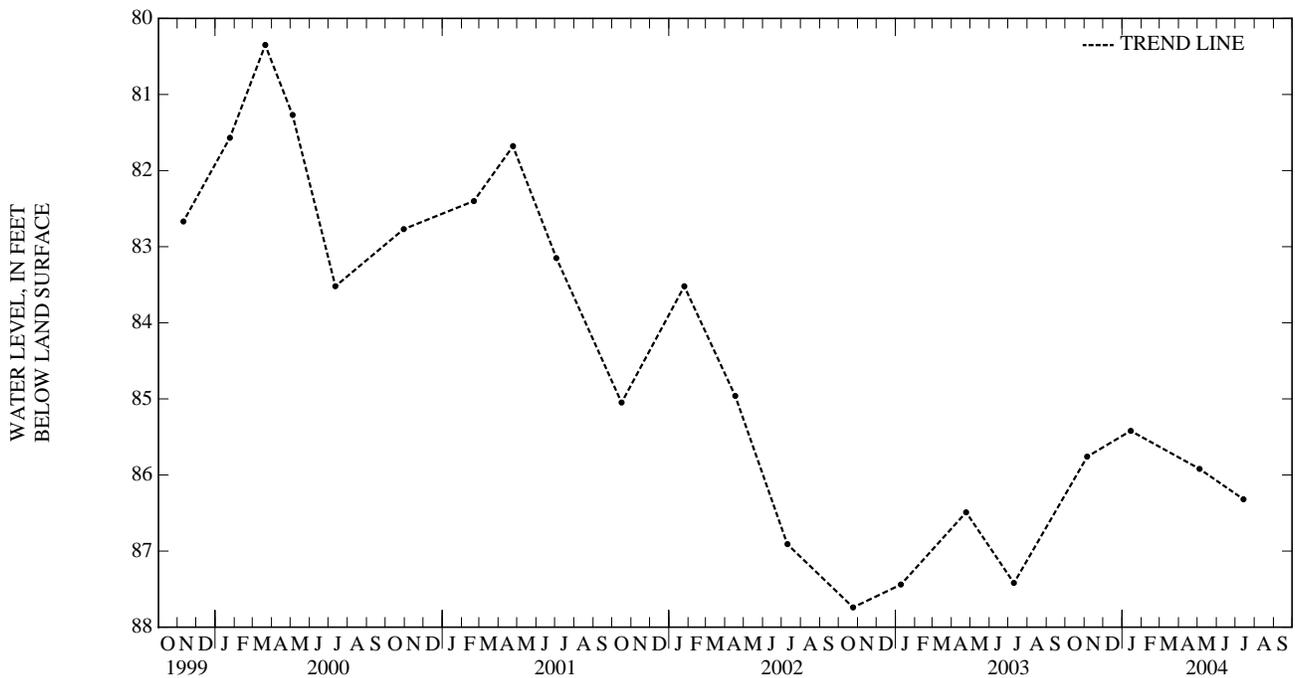
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--July 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.17 ft below land-surface datum, Aug. 17, 1982; lowest measured, 87.74 ft below land-surface datum, Oct. 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	85.76	JAN 14	85.42	MAY 04	85.92	JUL 14	86.32
WATER YEAR 2004 HIGHEST		85.42	JAN 14, 2004		LOWEST		86.32
						JUL 14, 2004	



SUSSEX COUNTY

365530077104002. Local number, 53D 6 SOW 179A.

LOCATION.--Lat 36°55'31", long 77°10'39", NAD83, Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Lower Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. 0 to 460 ft, diameter 2 in., 439 ft to 470 ft, depth 470 ft, screened 460 to 470 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder, 60-minute punch.

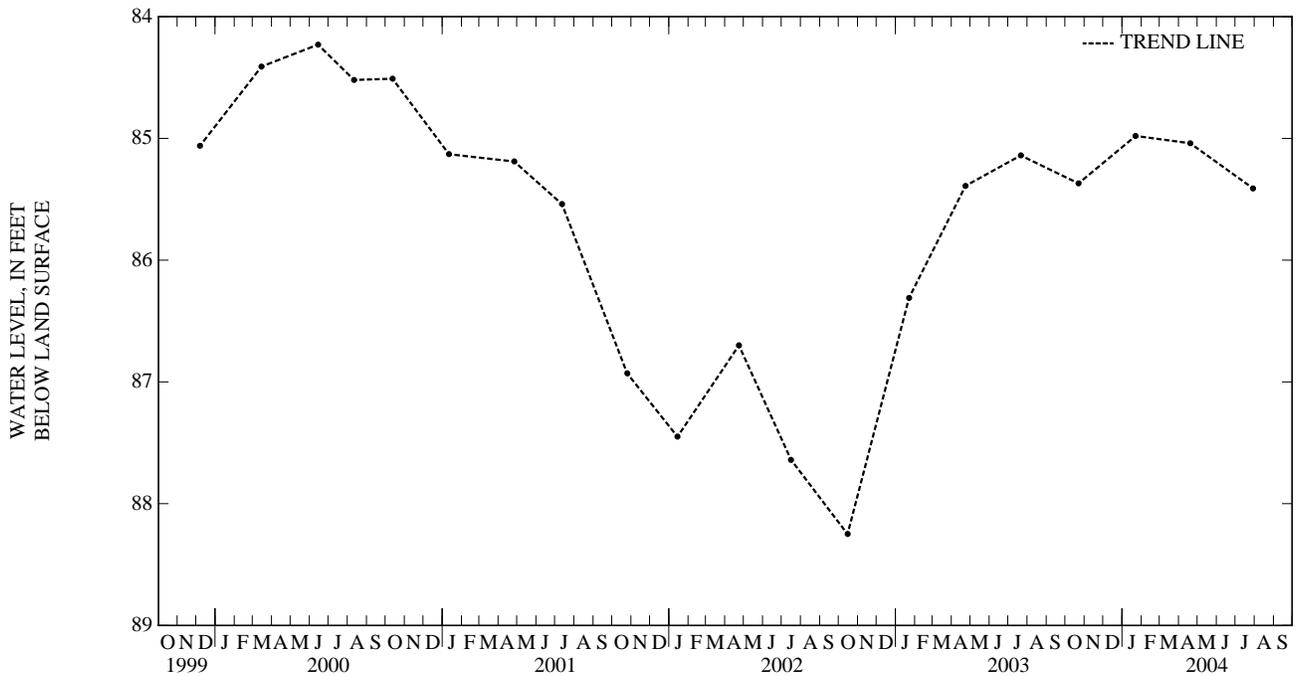
DATUM.--Elevation of land-surface datum is 90 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--November 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 78.50 ft below land-surface datum, Feb. 12, 1988; lowest measured, 88.25 ft below land-surface datum, Oct. 15, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	85.37	JAN 22	84.98	APR 19	85.04	JUL 29	85.41
WATER YEAR 2004 HIGHEST		84.98	JAN 22, 2004		LOWEST		85.41
						JUL 29, 2004	



GROUND-WATER LEVELS
SUSSEX COUNTY—Continued

365530077104006. Local number, 53D 10 SOW 179E.

LOCATION.--Lat 36°55'31", long 77°10'39", NAD83, Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. 0 to 130 ft, diameter 4 in. from 130 to 145 ft, depth 145 ft, screened 130 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 90 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

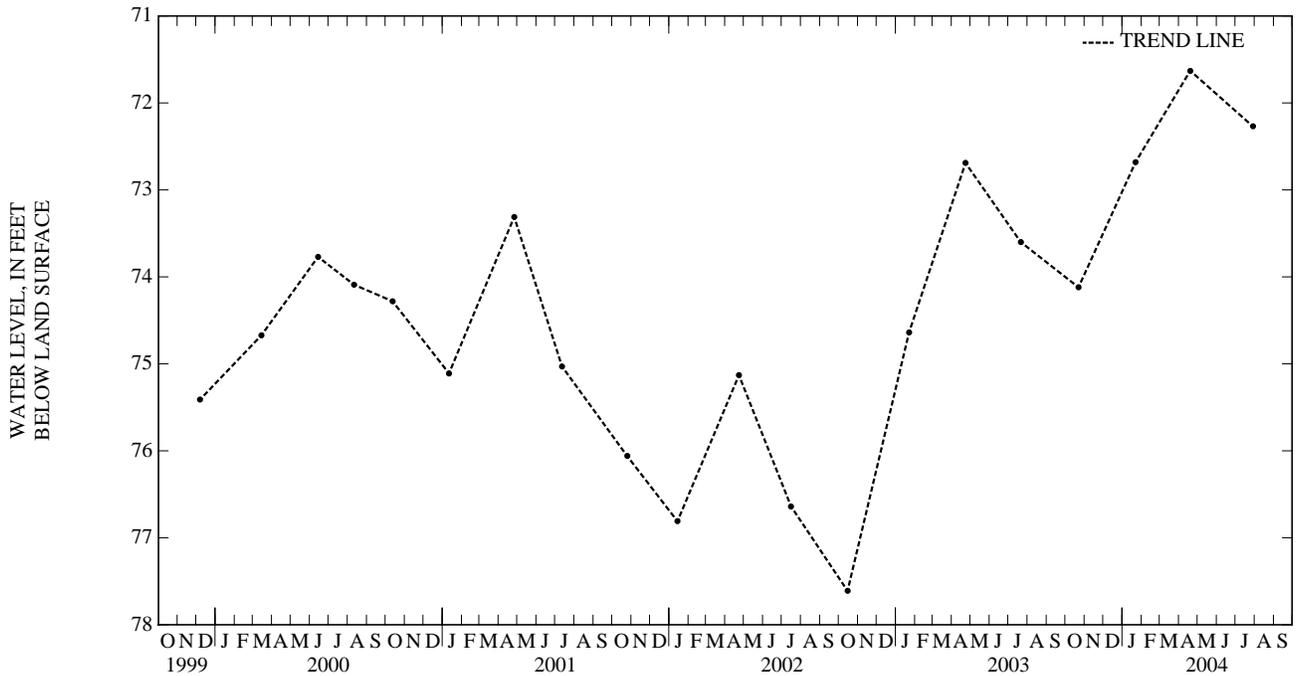
REMARKS.--Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 71.63 ft below land-surface datum, Apr. 19, 2004; lowest measured, 82.50 ft below land-surface datum, Sept. 12, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	74.12	JAN 22	72.68	APR 19	71.63	JUL 29	72.27
WATER YEAR 2004 HIGHEST		71.63	APR 19, 2004		LOWEST		74.12
						OCT 22, 2003	



SUSSEX COUNTY—Continued

365530077104007. Local number, 53D 11 SOW 179F.

LOCATION.--Lat 36°55'31", long 77°10'39", NAD83, Hydrologic Unit 03010201, off State Highway 634, 1.4 mi south of State Highway 35, and 1.7 mi southeast of Homeville. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. 0 to 82 ft, diameter 4 in. from 82 to 97 ft, depth 97 ft, screened 82 to 92 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1988, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 90 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

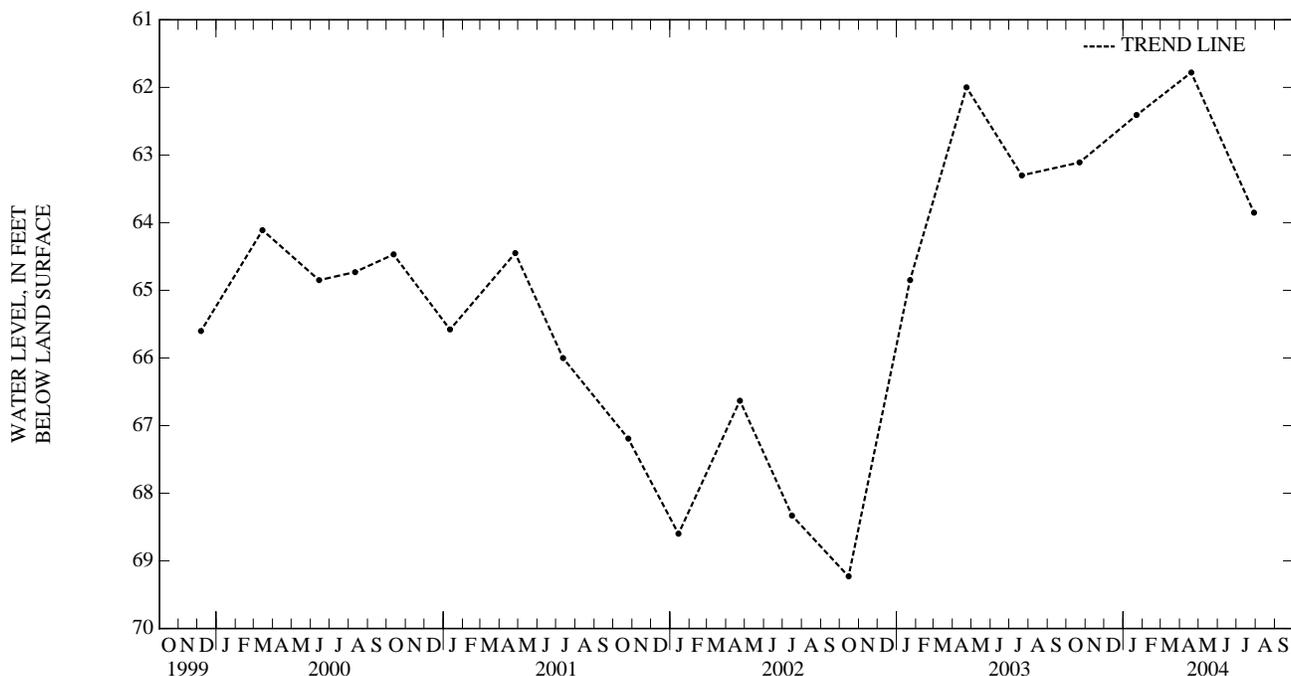
REMARKS.--Water level affected by local pumpage.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.78 ft below land-surface datum, Apr. 19, 2004; lowest recorded, 77.16 ft below land-surface datum, Nov. 28 to Dec. 1, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	63.11	JAN 22	62.41	APR 19	61.78	JUL 29	63.85
WATER YEAR 2004 HIGHEST		61.78 APR 19, 2004		LOWEST		63.85 JUL 29, 2004	



GROUND-WATER LEVELS
SUSSEX COUNTY—Continued

365235077150501. Local number, 53E 5 SOW 045.

LOCATION.--Lat 37°02'38", long 77°11'29", NAD83, Hydrologic Unit 03010201, 400 ft northeast of State Highway 625, 2.5 mi north of Newville. Owner: Butler Lumber Company.

AQUIFER.--Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in., depth 172 ft, screened 162 to 172 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to Mar. 1, 1989, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 126.65 ft above NGVD of 1929. Measuring point: Top of casing, 0.3 ft above land-surface datum prior to Mar. 8, 1988; 1.2 ft thereafter.

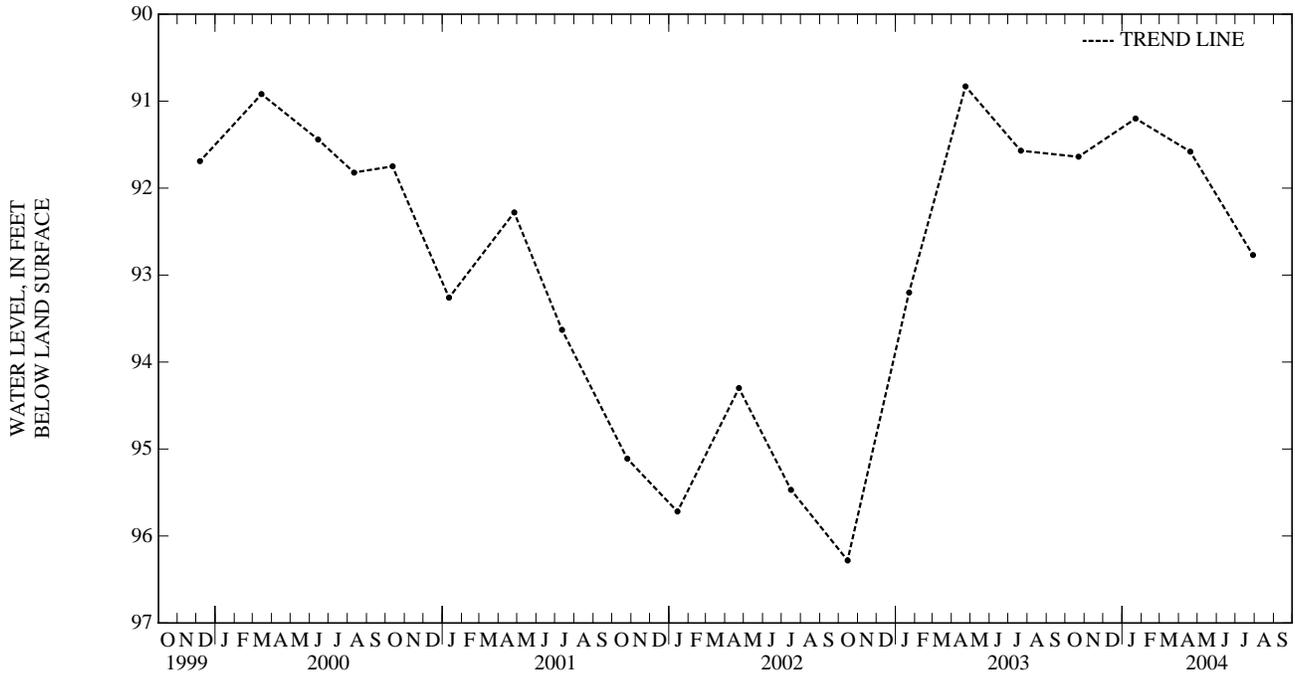
REMARKS.--Water level affected by local pumpage and regional drawdown.

PERIOD OF RECORD.--September 1971, October 1974 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.90 ft below land-surface datum, Mar. 16, 1976; lowest measured, 96.28 ft below land-surface datum, Oct. 15, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	91.64	JAN 22	91.20	APR 19	91.58	JUL 29	92.77
WATER YEAR 2004 HIGHEST		91.20	JAN 22, 2004 LOWEST		92.77	JUL 29, 2004	



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH

364920076093201. Local number, 61C 27 SOW 174A.

LOCATION.--Lat 36°49'21", long 76°09'28", NAD83, Hydrologic Unit 02080208, at Kempsville High School in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 175 ft, screened 160 to 170 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11.61 ft above NGVD of 1929. Measuring point: Top of casing, 0.8 ft above land-surface datum.

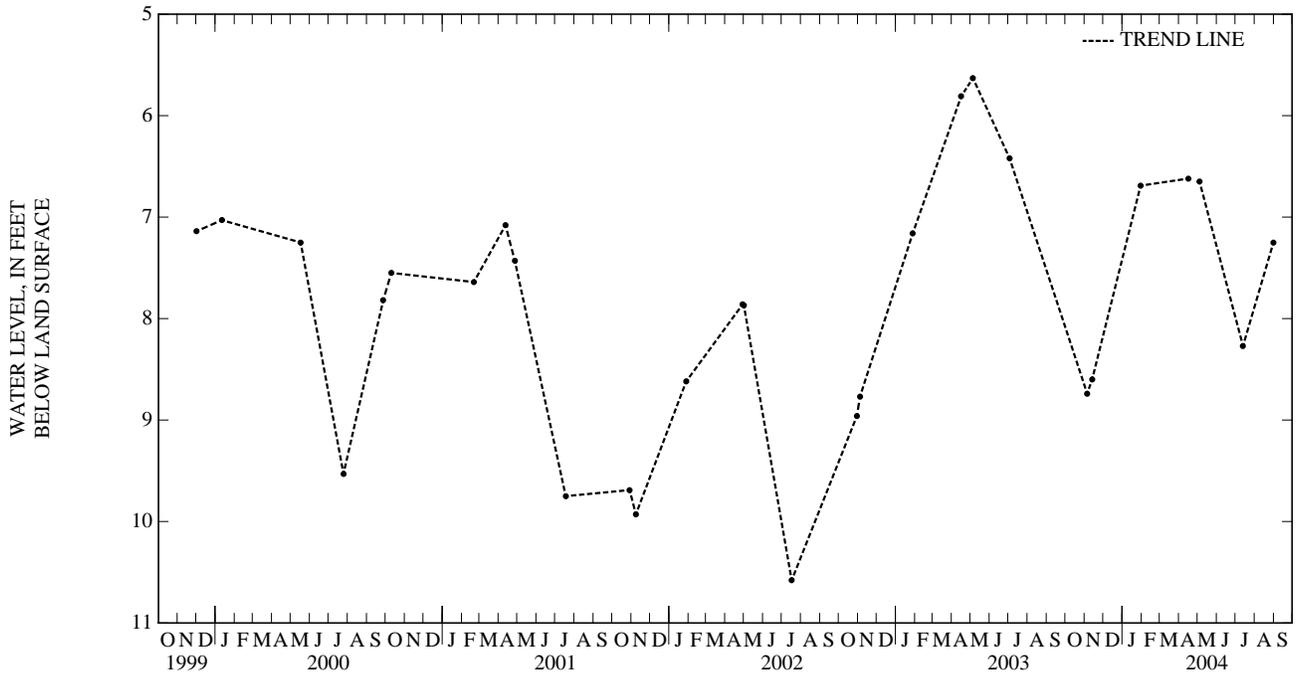
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.63 ft below land-surface datum, May 5, 2003; lowest measured, 11.73 ft below land-surface datum, Aug. 6, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	8.74	JAN 30	6.69	MAY 04	6.65	AUG 31	7.25
13	8.60	APR 16	6.62	JUL 13	8.27		
WATER YEAR 2004 HIGHEST		6.62 APR 16, 2004		LOWEST		8.74 NOV 05, 2003	



CITY OF VIRGINIA BEACH—Continued

364920076093202. Local number, 61C 28 SOW 174B.

LOCATION.--Lat 36°49'14", long 76°09'18", NAD83, Hydrologic Unit 02080208, at Kempsville High School in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 80 ft, screened 65 to 75 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 9, 1985 to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13.10 ft above NGVD of 1929. Measuring point: Top of casing, 1.2 ft above land-surface datum prior to Nov. 6, 2001; 1.72 ft thereafter.

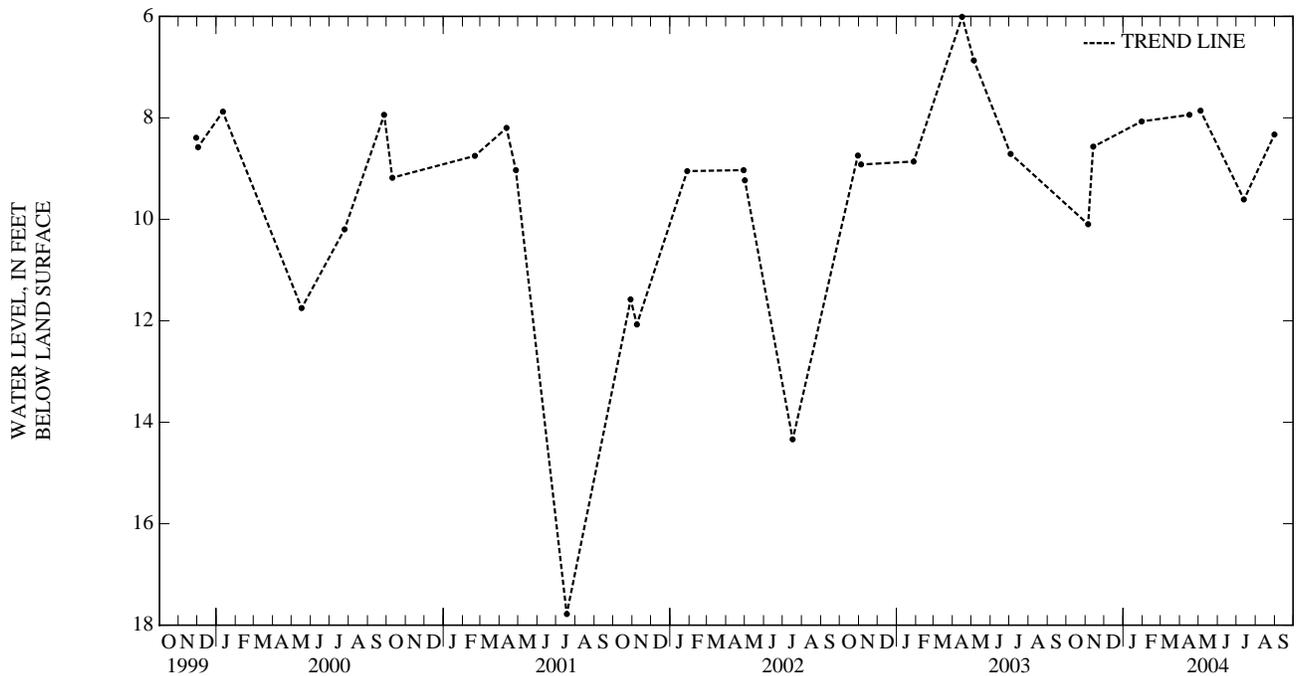
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.01 ft below land-surface datum, Apr. 16, 2003; lowest measured, 17.99 ft below land-surface datum, July 18, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	10.10	JAN 30	8.07	MAY 04	7.86	AUG 31	8.33
13	8.57	APR 16	7.94	JUL 13	9.61		
WATER YEAR 2004 HIGHEST 7.86		MAY 04, 2004		LOWEST 10.10		NOV 05, 2003	



CITY OF VIRGINIA BEACH—Continued

364558076074501. Local number, 61C 43.

LOCATION.--Lat 36°45'58", long 76°07'43", NAD83, Hydrologic Unit 03010205, 40 ft southeast from the northwest corner of Bellwood Estates Neighborhood Park Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 198 ft, screened 182 to 192 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. April 12, 2001 to Feb. 11, 2004, electronic data logger and pressure transducer, 60-minute record interval. Prior to April 12, 2001, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 5.68 ft above NGVD of 1929. Measuring point: Top of casing, 2.19 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

PERIOD OF RECORD.--September 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.68 ft below land-surface datum, Apr. 16, 2004; lowest recorded, 18.94 ft below land-surface datum, Aug. 28, 2002.

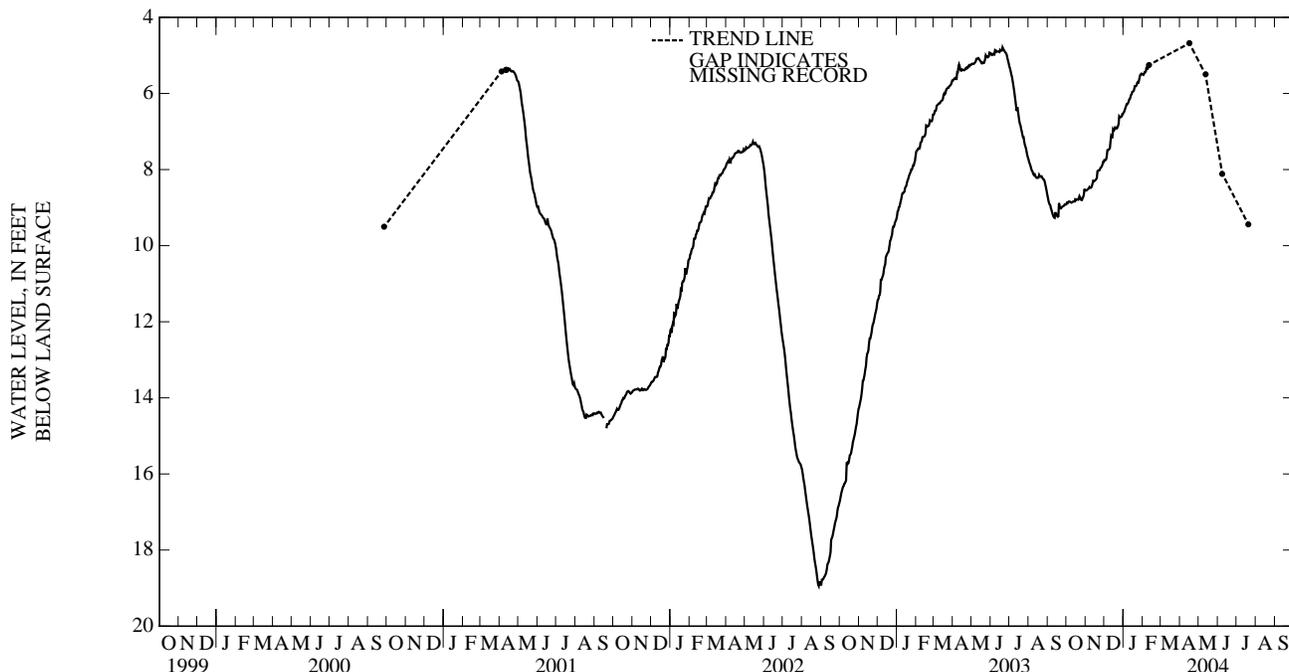
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 4.68 ft below land-surface datum, Apr. 16; lowest water level measured, 9.44 ft below land-surface datum, July 20.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.84	8.51	7.64	6.33	5.44	---	---	---	---	---	---	---
10	8.86	8.47	7.43	6.16	5.29	---	---	---	---	---	---	---
15	8.79	8.30	6.95	5.96	---	---	---	---	---	---	---	---
20	8.79	8.04	6.92	5.81	---	---	---	---	---	---	---	---
25	8.80	7.95	6.60	5.71	---	---	---	---	---	---	---	---
EOM	8.55	7.80	6.54	5.49	---	---	---	---	---	---	---	---

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	8.71	FEB 11	5.25	MAY 12	5.50	JUL 20	9.44
NOV 04	8.51	APR 16	4.68	JUN 08	8.11		
WATER YEAR 2004 HIGHEST 4.68 APR 16, 2004		LOWEST 9.44 JUL 20, 2004					



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364558076074401. Local number, 61C 44.

LOCATION.--Lat 36°45'58", long 76°07'43", NAD83, Hydrologic Unit 03010205, 40 ft southeast from the northwest corner of Bellwood Estates Neighborhood Park. Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 107 ft, screened 92 to 102 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to April 12, 2001, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 5.77 ft above NGVD of 1929. Measuring point: Top of casing, 2.80 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

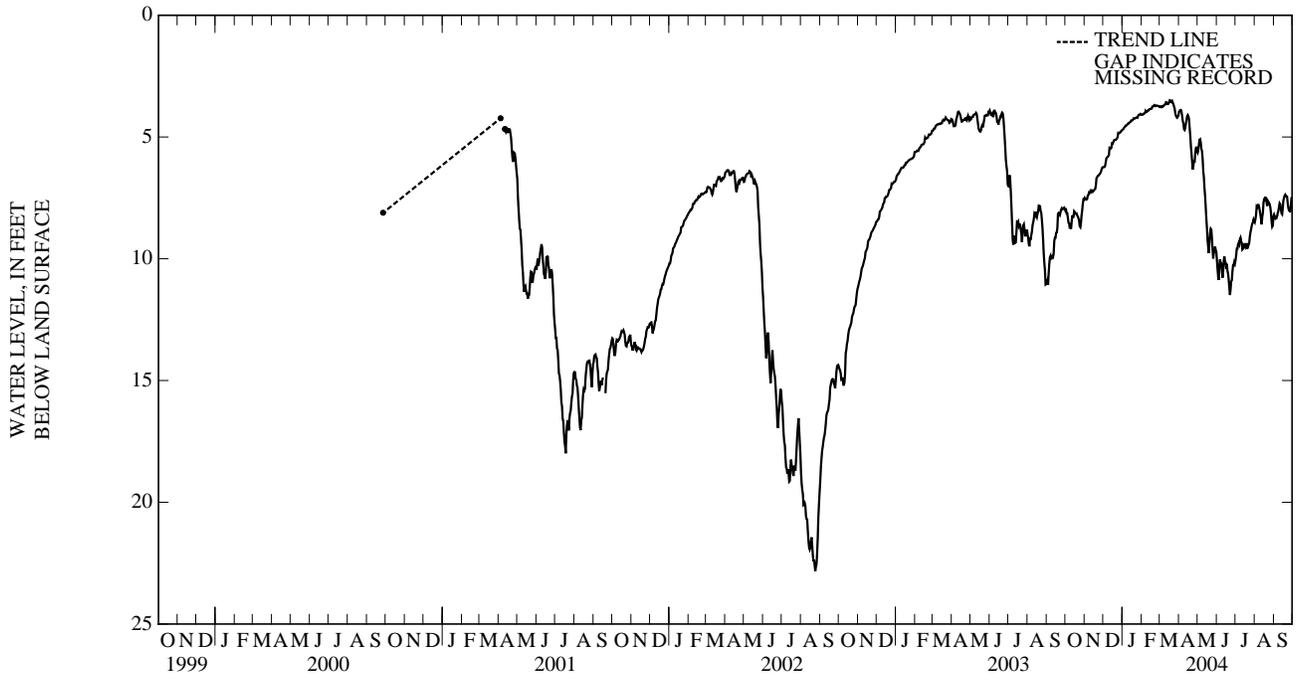
PERIOD OF RECORD.--September 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.46 ft below land-surface datum, Mar. 19, 2004; lowest recorded, 22.83 ft below land-surface datum, Aug. 24, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 3.46 ft below land-surface datum, Mar. 19; lowest instantaneous water level, 11.49 ft below land-surface datum, June 22.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.34	7.54	6.02	4.58	4.04	3.77	3.98	5.09	10.24	9.41	7.88	8.32
10	8.77	7.29	5.74	4.44	3.93	3.66	4.71	6.41	10.78	9.28	8.18	7.72
15	8.05	7.22	5.26	4.32	3.85	3.63	4.10	8.38	10.16	9.40	7.69	7.95
20	8.23	6.69	5.12	4.24	3.72	3.57	5.36	9.30	10.87	9.59	7.70	7.42
25	8.70	6.53	4.83	4.21	3.71	3.85	5.97	9.65	10.88	8.91	7.76	8.01
EOM	7.57	6.24	4.73	4.07	3.76	4.11	5.58	9.71	10.20	8.45	8.26	7.48



CITY OF VIRGINIA BEACH—Continued

365212076091201. Local number, 61C 45.

LOCATION.--Lat 36°52'12", long 76°09'11", NAD83, Hydrologic Unit 02080108, at Bayside High School in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 168 ft, screened 138 to 158 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

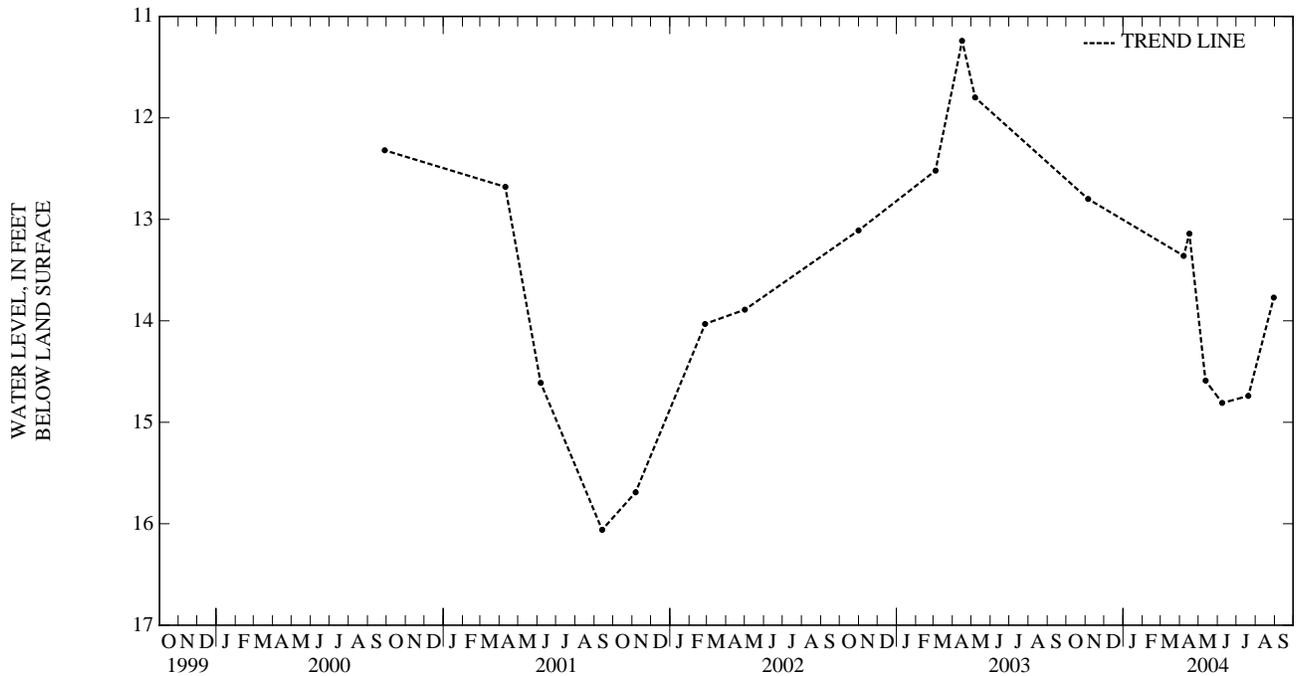
DATUM.--Elevation of land-surface datum is 20.41 ft above NGVD of 1929. Measuring point: Top of casing, 1.80 ft above land-surface datum.

PERIOD OF RECORD.--September 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.24 ft below land-surface datum, Apr. 16, 2003; lowest measured, 16.06 ft below land-surface datum, Sept. 13, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	12.80	APR 16	13.14	JUN 08	14.81	AUG 30	13.77
APR 07	13.36	MAY 12	14.59	JUL 20	14.74		
WATER YEAR 2004 HIGHEST 12.80 NOV 05, 2003		LOWEST 14.81		JUN 08, 2004			



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH—Continued

365212076091202. Local number, 61C 46.

LOCATION.--Lat 36°52'12", long 76°09'11", NAD83, Hydrologic Unit 02080108, at Bayside High School in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 77 ft, screened 62 to 72 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to April 13, 2001, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 20.37 ft above NGVD of 1929. Measuring point: Top of casing, 2.36 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

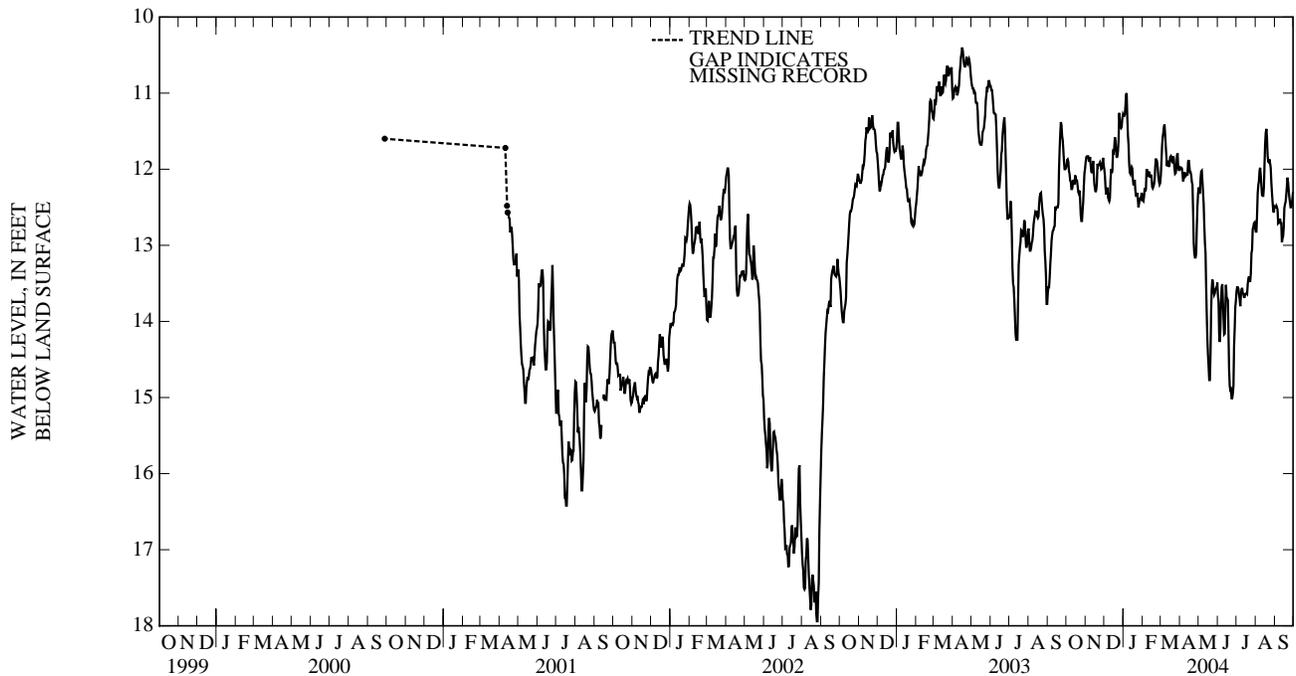
PERIOD OF RECORD.--September 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 10.35 ft below land-surface datum, Apr. 16, 2003; lowest recorded, 17.94 ft below land-surface datum, Aug. 25, 26, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 10.87 ft below land-surface datum, Jan. 5, 6; lowest instantaneous water level, 15.01 ft below land-surface datum, June 23, 24.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.02	11.83	12.29	11.02	12.29	11.52	12.07	12.03	14.09	13.65	12.21	12.53
10	12.26	12.03	12.38	11.92	12.06	11.84	12.09	12.73	13.96	13.56	12.22	12.71
15	12.08	12.20	11.77	11.99	12.10	11.94	11.88	14.24	13.70	13.64	11.94	12.76
20	12.30	11.93	11.77	12.28	12.14	11.92	12.17	14.44	14.85	13.44	11.82	12.23
25	12.68	11.94	11.26	12.50	11.98	12.05	13.16	13.60	14.95	13.10	11.98	12.43
EOM	11.99	11.95	11.28	12.34	12.18	12.01	12.32	13.49	13.72	12.78	12.49	12.30



CITY OF VIRGINIA BEACH—Continued

365425076105001. Local number, 61D 5 SOW 155.

LOCATION.--Lat 36°54'26", long 76°10'49", NAD83, Hydrologic Unit 02080108, 100 ft east of Ferry Road, 0.3 mi northwest of Diamond Springs Road in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 12 in. to 102 ft, diameter 6 in. from 102 to 150 ft, diameter 4 in. from 150 to 1,380 ft, depth 1,380 ft, screened 1,207 to 1,229 ft, 1,250 to 1,264 ft, 1,286 to 1,306 ft, 1,345 to 1,367 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 11 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum.

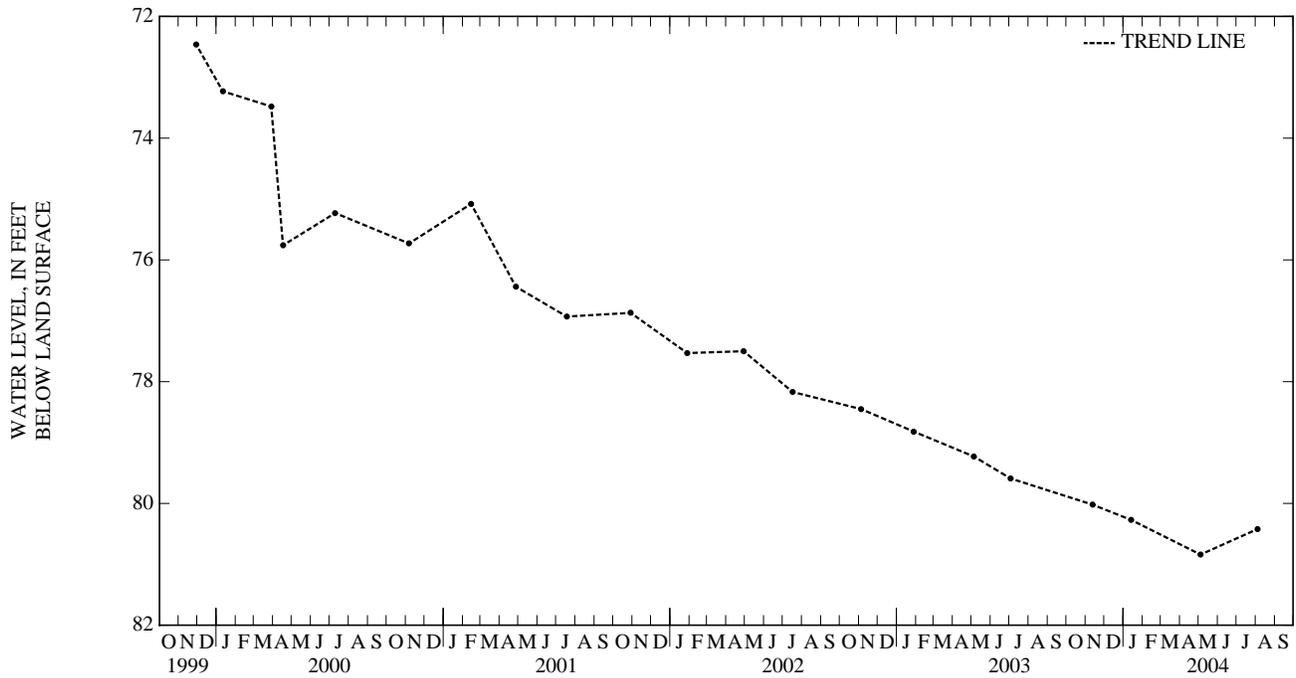
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--December 1980 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.75 ft below land-surface datum, Dec. 17, 1980; lowest measured, 80.84 ft below land-surface datum, May 4, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	80.02	JAN 13	80.27	MAY 04	80.84	AUG 04	80.42
WATER YEAR 2004 HIGHEST 80.02 NOV 12, 2003		LOWEST 80.84 MAY 04, 2004					



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

365327076080501. Local number, 61D 6 SOW 124.

LOCATION.--Lat 36°53'28", long 76°08'04", NAD83, Hydrologic Unit 02080108, at Thoroughgood Elementary School in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 40 ft, screened 25 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel. Prior to August 1999, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

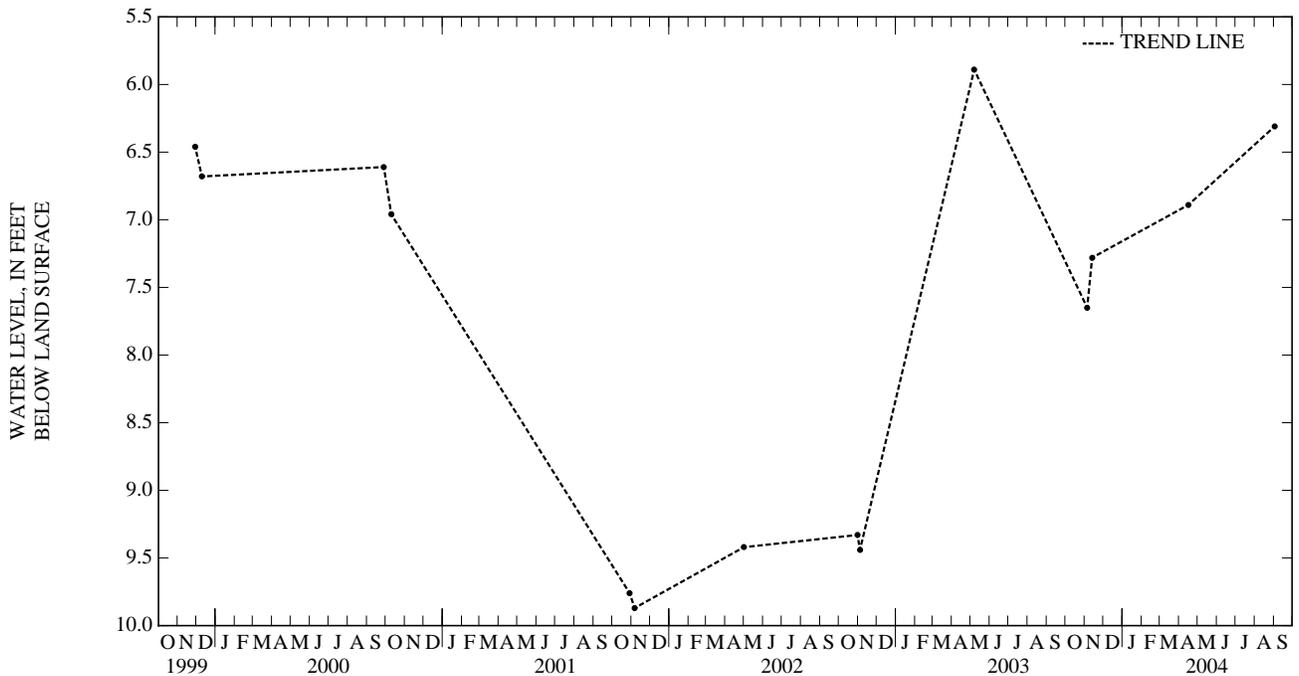
DATUM.--Elevation of land-surface datum is 22.56 ft above NGVD of 1929. Measuring point: Top of casing, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--April 1978 to current year. Unpublished records available October 1995 to September 2002 and prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.85 ft below land-surface datum, Apr. 7, 1984; lowest measured, 10.72 ft below land-surface datum, Nov. 12, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	7.65	NOV 13	7.28	APR 16	6.89	SEP 02	6.31
WATER YEAR 2004 HIGHEST		6.31 SEP 02, 2004		LOWEST		7.65 NOV 05, 2003	



CITY OF VIRGINIA BEACH—Continued

365231076094601. Local number, 61D 9.

LOCATION.--Lat 36°52'31", long 76°09'45", NAD83, Hydrologic Unit 02080108, on golf course at the golf tunnel, at Cypress Point Country Club in Virginia Beach. Owner:

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 35 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

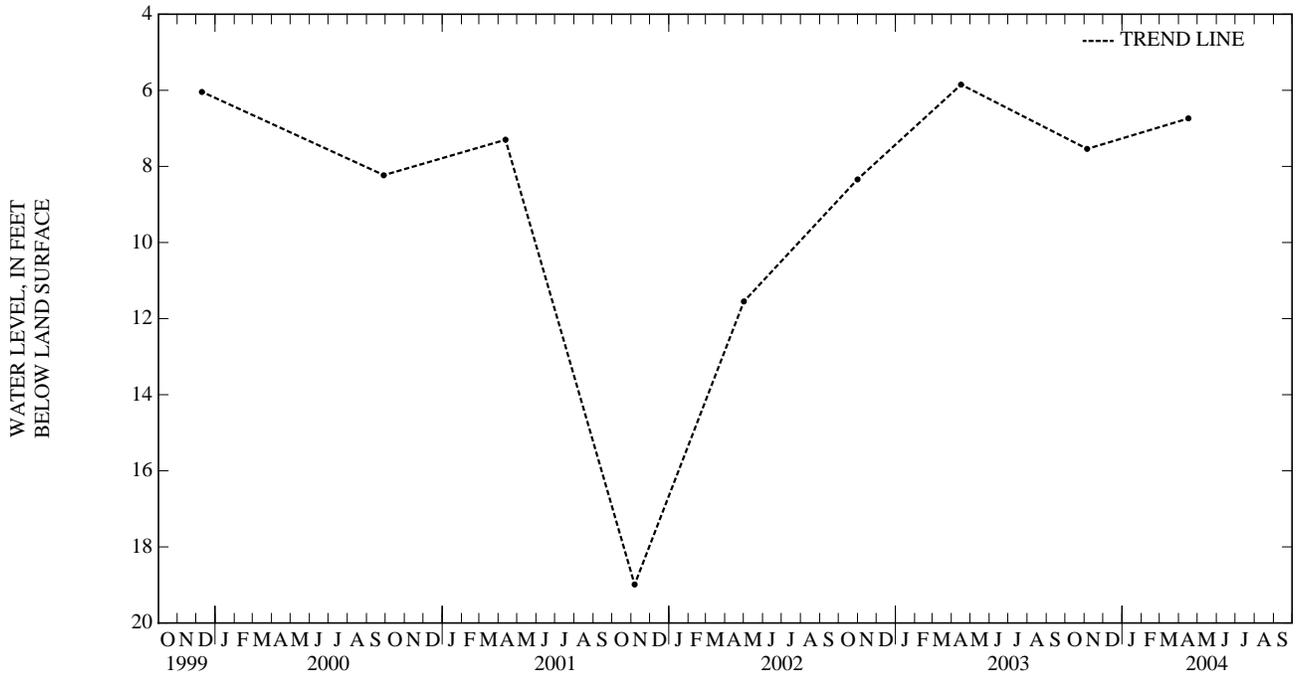
DATUM.--Elevation of land-surface datum is 14.87 ft above NGVD of 1929. Measuring point: Top of casing, 2.74 ft above land-surface datum.

PERIOD OF RECORD.--December 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 5.85 ft below land-surface datum, Apr. 16, 2003; lowest recorded, 18.99 ft below land-surface datum, Nov. 6, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	7.54	APR 16	6.74
WATER YEAR 2004 HIGHEST 6.74 APR 16, 2004 LOWEST 7.54 NOV 05, 2003			



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

363537076061001. Local number, 62A 2 SOW 097A.

LOCATION.--Lat 36°33'56", long 76°06'15", NAD83, Hydrologic Unit 03010205, 0.2 mi south of Baum Road, 0.25 mi west of Craggs Causeway in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 76 ft, screened 66 to 76 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 7.57 ft above NGVD of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum prior to Aug. 3, 1988; at land-surface datum Aug. 3, 1988, to Mar. 13, 1989; 0.65 ft Mar. 13, 1989, to Apr. 1, 1991; 1.65 ft thereafter.

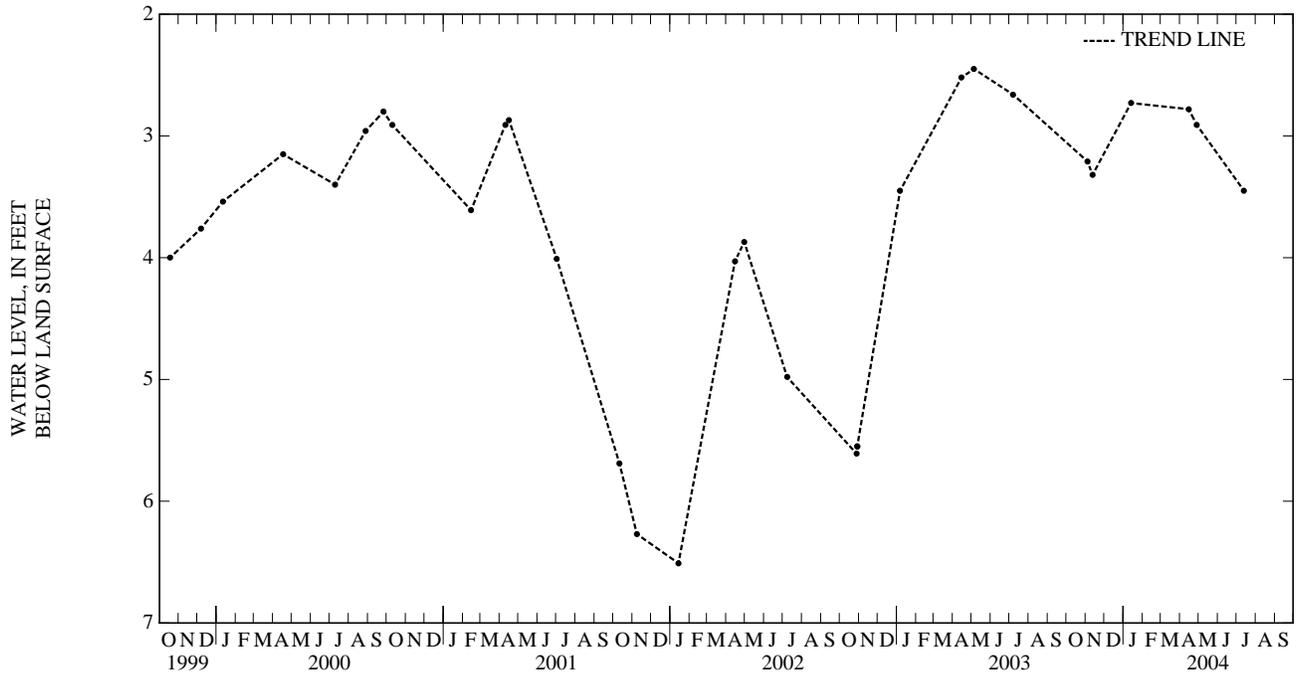
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.18 ft below land-surface datum, Apr. 30, 1980; lowest measured, 6.68 ft below land-surface datum, Nov. 28, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	3.21	NOV 12	3.32	JAN 13	2.73	APR 15	2.78	APR 28	2.91	JUL 13	3.45
WATER YEAR 2004 HIGHEST		2.73	JAN 13, 2004 LOWEST		3.45	JUL 13, 2004					



CITY OF VIRGINIA BEACH—Continued

363537076061002. Local number, 62A 3 SOW 097B.

LOCATION.--Lat 36°33'56", long 76°06'15", NAD83, Hydrologic Unit 03010205, 0.2 mi south of Baum Road, 0.25 mi west of Craggs Causeway in Virginia Beach Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 24 ft, screened 20 to 24 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel. Prior to August 1999, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

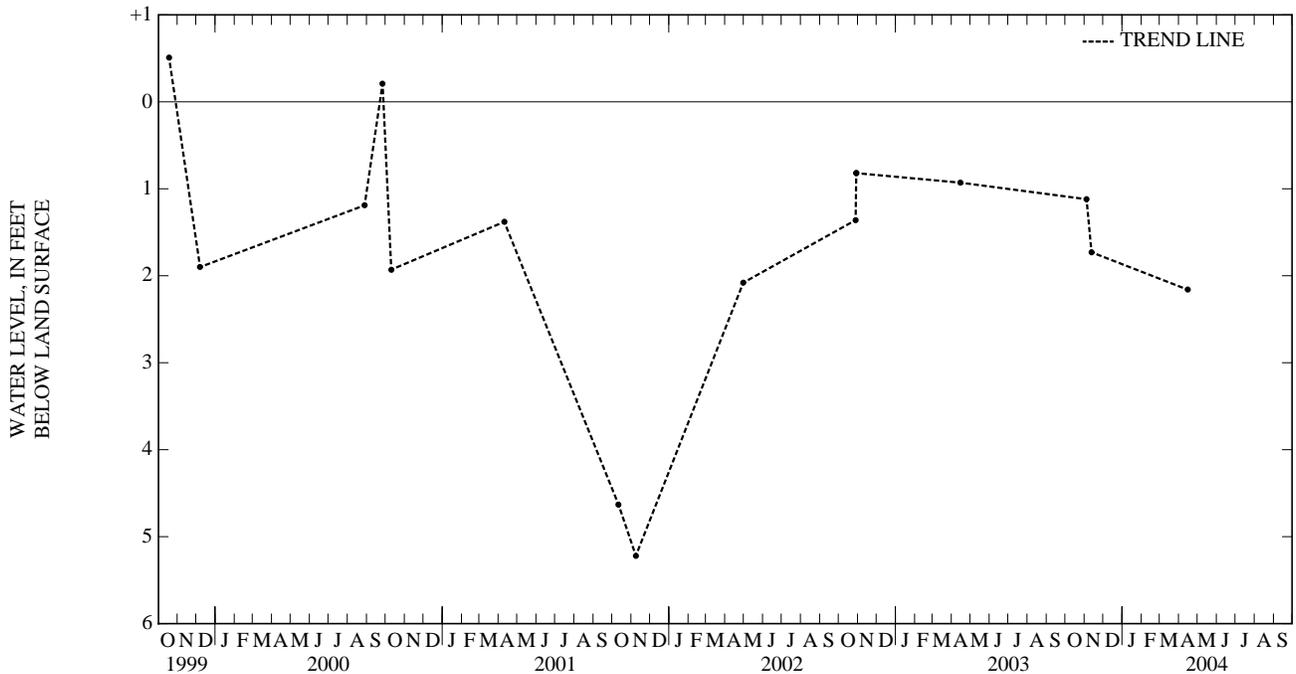
DATUM.--Elevation of land-surface datum is 7.76 ft above NGVD of 1929. Measuring point: Top of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1979 to current year. Unpublished records available October 1995 to September 2002 and prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.51 ft above land-surface datum, Oct. 18, 1999; lowest measured, 6.50 ft below land-surface datum, Oct. 17, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	1.12	NOV 12	1.73	APR 15	2.16
WATER YEAR 2004 HIGHEST 1.12 NOV 04, 2003 LOWEST 2.16 APR 15, 2004					



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

363325076005201. Local number, 62A 5.

LOCATION.--Lat 36°33'27", long 76°00'26", NAD83, Hydrologic Unit 03010205, at Seneca Camp Grounds in Virginia Beach, 5 mi south of intersection of Pungo Ferry Road and Princess Anne Road in Virginia Beach. Owner: Seneca Corp.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 88 ft, screened 58 to 83 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

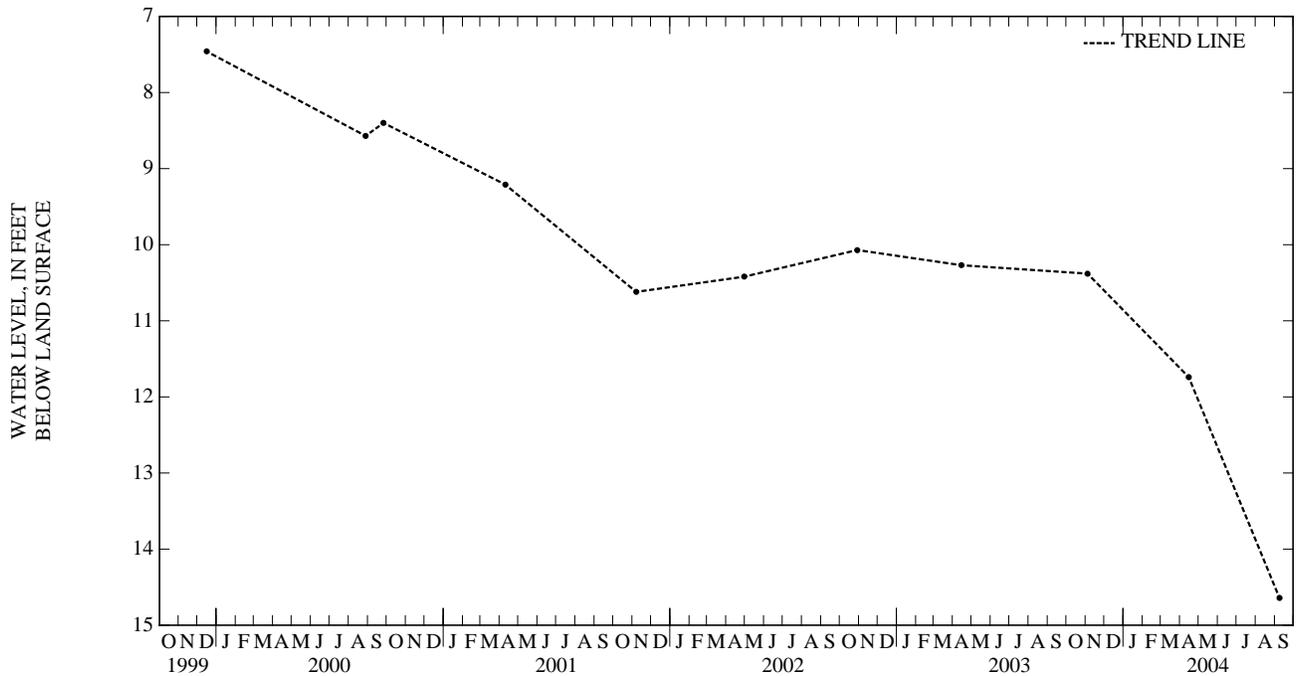
DATUM.--Elevation of land-surface datum is 7.80 ft above NGVD of 1929. Measuring point: Top of casing, 0.92 ft above land-surface datum.

PERIOD OF RECORD.--1972, August 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.00 ft below land-surface datum, July 19, 1972; lowest measured, 14.64 ft below land-surface datum, Sept. 8, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	10.38	APR 15	11.74	SEP 08	14.64
WATER YEAR 2004 HIGHEST 10.38 NOV 04, 2003		LOWEST 14.64		SEP 08, 2004	



CITY OF VIRGINIA BEACH—Continued

363714076063501. Local number, 62A 22.

LOCATION.--Lat 36°37'15", long 76°06'34", NAD83, Hydrologic Unit 03010205, at northeast corner of Blackwater Neighborhood Park, on Head of River Road in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 178 ft, screened 143 to 168 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. April 2001 to May 2002, electronic data logger and pressure transducer, 60-minute record interval. Prior to April 2001, occasional measurement with chalked tape by USGS personnel.

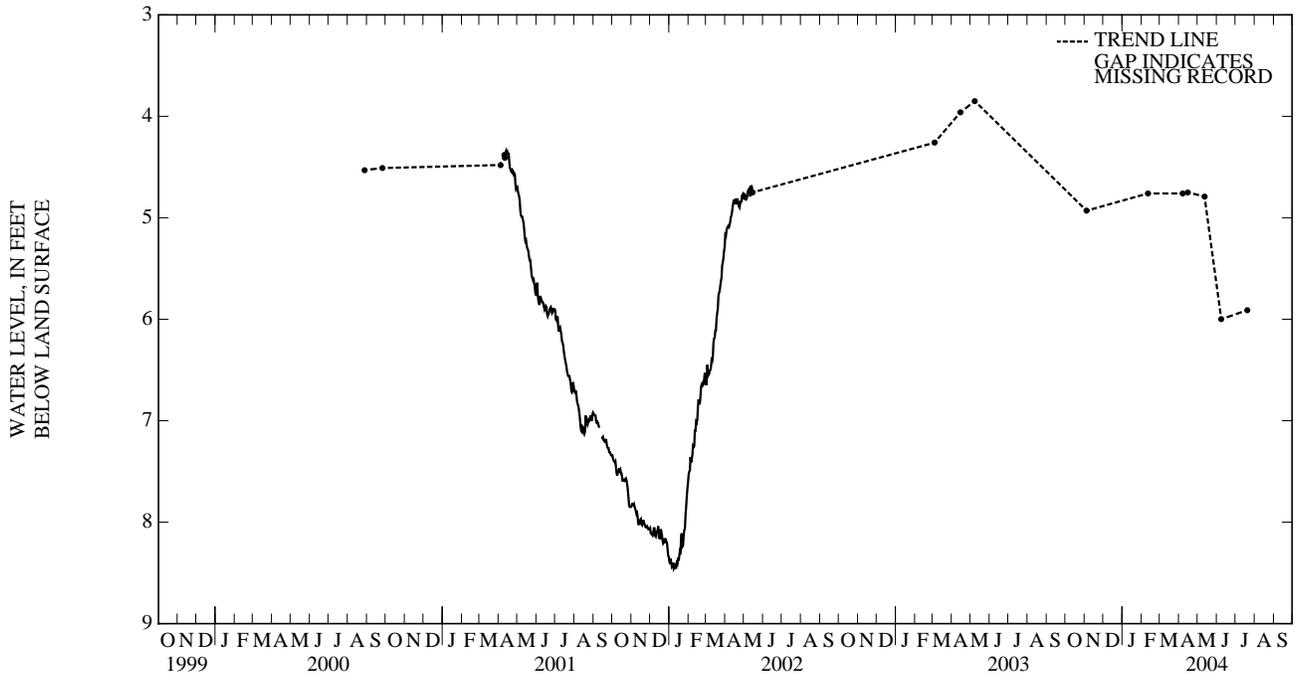
DATUM.--Elevation of land-surface datum is 10.46 ft above NGVD of 1929. Measuring point: Top of casing, 2.17 ft above land-surface datum.

PERIOD OF RECORD.--August 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.85 ft below land-surface datum, May 8, 2003; lowest recorded, 8.46 ft below land-surface datum, Jan. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	4.93	APR 07	4.76	MAY 12	4.79	JUL 20	5.91
FEB 11	4.76	15	4.75	JUN 08	6.00		
WATER YEAR 2004 HIGHEST		4.75	APR 15, 2004		LOWEST		6.00 JUN 08, 2004



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

363714076063502. Local number, 62A 23.

LOCATION.--Lat 36°37'15", long 76°06'34", NAD83, Hydrologic Unit 03010205, at northeast corner of Blackwater Neighborhood Park, on Head of River Road in Virginia Beach. Owner: City of Virginia Beach.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 100 ft, screened 88 to 98 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to April 2001, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10.39 ft above NGVD of 1929. Measuring point: Top of casing, 2.17 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction.

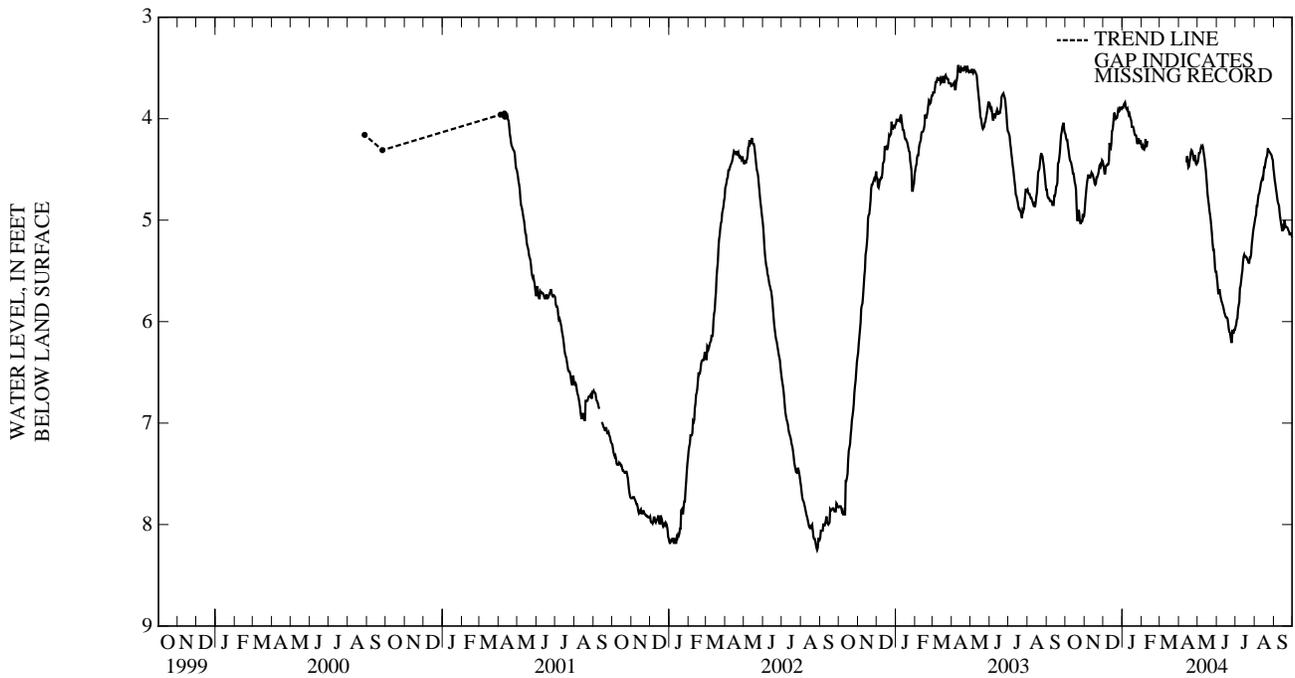
PERIOD OF RECORD.--August 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.42 ft below land-surface datum, Apr. 26, 2003; lowest recorded, 8.25 ft below land-surface datum, Aug. 27, 2002.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 3.80 ft below land-surface datum, Dec. 24; lowest instantaneous water level, 6.21 ft below land-surface datum, June 25.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.27	4.62	4.47	3.84	4.30	---	---	4.33	5.68	5.88	4.86	4.73
10	4.43	4.58	4.42	3.93	4.22	---	---	4.30	5.83	5.60	4.67	4.93
15	4.58	4.58	4.12	4.02	---	---	4.43	4.58	5.95	5.34	4.54	5.10
20	5.00	4.58	3.98	4.14	---	---	4.33	4.91	6.07	5.39	4.38	5.07
25	5.03	4.46	3.91	4.25	---	---	4.41	5.23	6.21	5.37	4.33	5.11
EOM	4.96	4.42	3.90	4.25	---	---	4.44	5.51	6.08	5.05	4.49	5.17



CITY OF VIRGINIA BEACH—Continued

364126076003501. Local number, 62B 1 SOW 098A.

LOCATION.--Lat 36°41'28", long 76°00'34", NAD83, Hydrologic Unit 03010205, on north side of Pleasant Ridge Road at the Virginia Beach Mosquito Control shop, 0.9 mi east of Pleasant Ridge in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 24 ft, screened 20 to 24 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Prior to Mar. 4, 2004, Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel.

DATUM.--Elevation of land-surface datum is 5.63 ft above NGVD of 1929. Measuring point: Top of casing, 0.8 ft above land-surface datum prior to Mar. 2, 1988; 1.05 ft Mar. 2, 1988 to Sept. 8, 2003; top of recorder shelf, 1.61 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.77 ft below land-surface datum, Aug. 16, 2004; lowest measured, 11.95 ft below land-surface datum, Sept. 16, 1980.

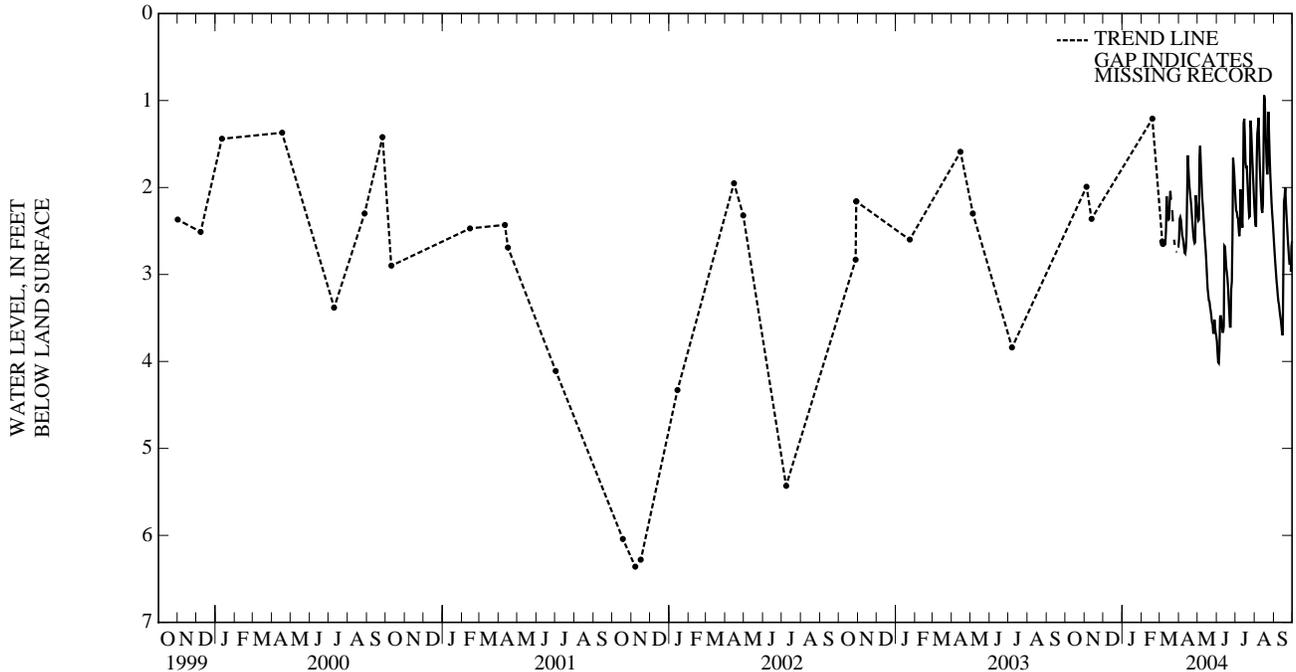
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 0.77 ft below land-surface datum, Aug. 16; lowest instantaneous water level, 4.02 ft below land-surface datum, June 4.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	2.62	2.46	1.52	3.88	2.36	1.38	3.07
10	---	---	---	---	---	2.63	2.75	2.30	3.66	2.19	1.93	3.42
15	---	---	---	---	---	2.37	1.63	2.87	2.80	1.21	1.61	3.70
20	---	---	---	---	---	---	2.16	3.31	3.31	1.91	1.72	2.17
25	---	---	---	---	---	2.66	2.61	3.57	3.08	1.23	1.66	2.80
EOM	---	---	---	---	---	2.68	2.26	3.71	2.02	2.18	2.52	2.62

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	1.99	NOV 12	2.36	FEB 18	1.21	APR 15	1.60	APR 28	2.05	JUL 13	1.59
WATER YEAR 2004 HIGHEST		1.21	FEB 18, 2004		LOWEST		2.36	NOV 12, 2003			



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364126076003502. Local number, 62B 2 SOW 098B.

LOCATION.--Lat 36°41'27", long 76°00'34", NAD83, Hydrologic Unit 03010205, on north side of Pleasant Ridge Road at the Virginia Beach Mosquito Control shop, 0.9 mi east of Pleasant Ridge in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 98 ft, screened 88 to 98 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 9, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 9, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 5.54 ft above NGVD of 1929. Measuring point: Top of casing, 0.8 ft above land-surface datum prior to Mar. 2, 1988; 1.2 ft above land-surface datum Mar. 2, 1988, to Dec. 9, 1994; 0.8 ft Dec. 9, 1994 to Nov. 16, 2001; 1.15 ft thereafter.

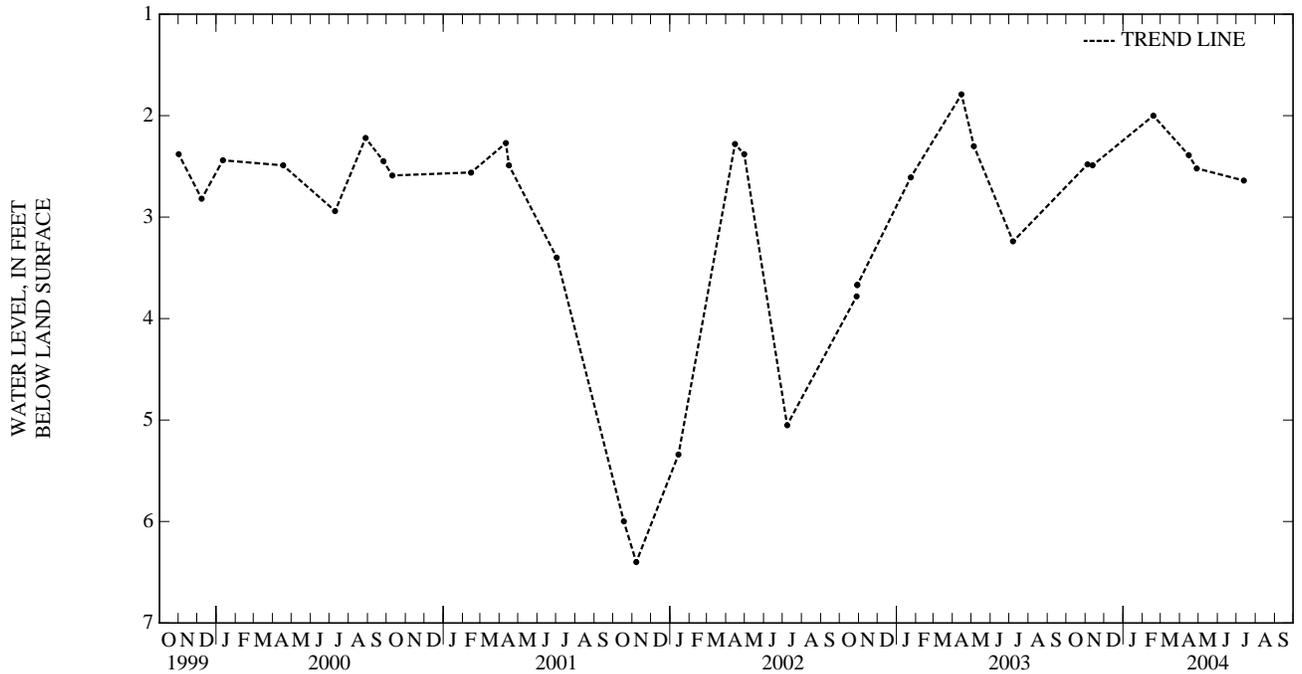
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--June 1979 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.70 ft below land-surface datum, Mar. 13, 1989, Jan. 10, 1990; lowest measured, 11.76 ft below land-surface datum, Sept. 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	2.48	NOV 12	2.49	FEB 18	2.00	APR 15	2.39	APR 28	2.52	JUL 13	2.64
WATER YEAR 2004 HIGHEST		2.00 FEB 18, 2004		LOWEST		2.64 JUL 13, 2004					



CITY OF VIRGINIA BEACH—Continued

364401076003801. Local number, 62B 8.

LOCATION.--Lat 36°44'02", long 76°00'37", NAD83, Hydrologic Unit 03010205, on Flannagans Lane 0.4 mi from the intersection of Flannagans Lane and Princess Anne Road. Owner: William Oliver, Jr.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 132 ft, screened 117 to 127 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

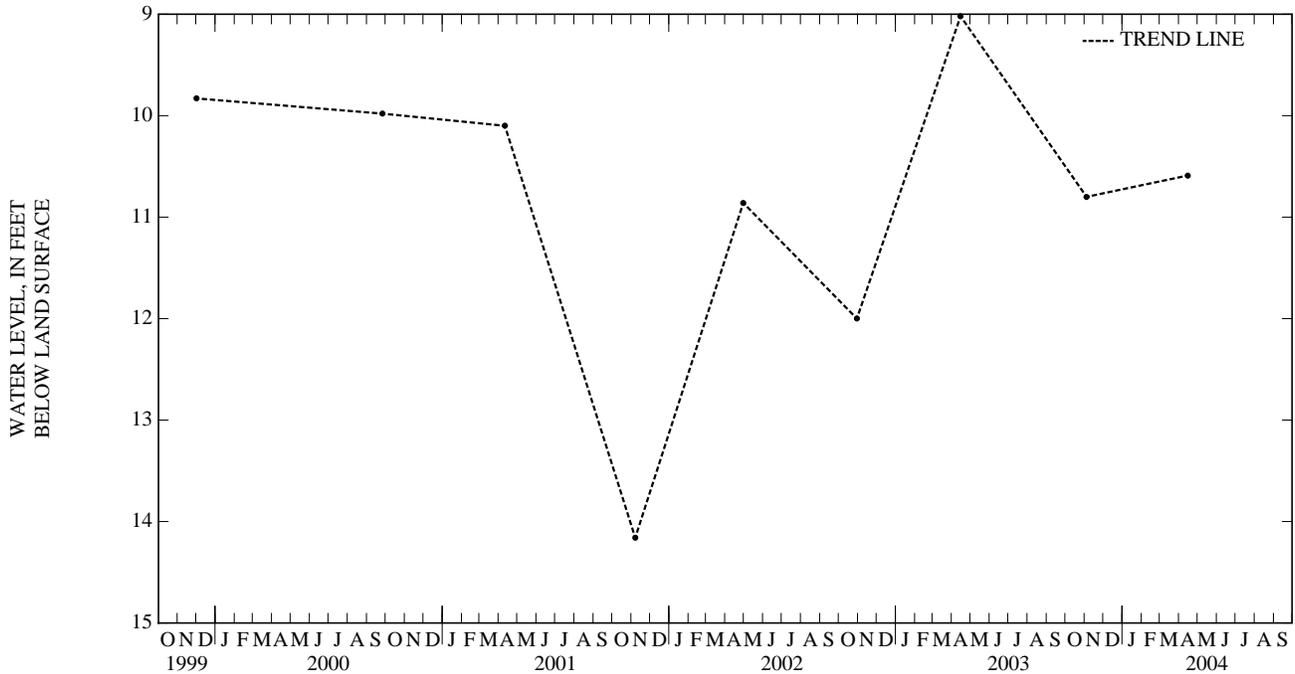
DATUM.--Elevation of land-surface datum is 8.8 ft NGVD of above 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.02 ft below land-surface datum, Apr. 15, 2003; lowest measured, 14.16 ft below land-surface datum, Nov. 7, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	10.80	APR 15	10.59
WATER YEAR 2004 HIGHEST 10.59 APR 15, 2004		LOWEST 10.80 NOV 04, 2003	



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH—Continued

364352076005401. Local number, 62B 9.

LOCATION.--Lat 36°43'53", long 76°00'53", NAD83, Hydrologic Unit 03010205, Owner: William Oliver, Jr.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 67 ft, screened 52 to 62 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to Feb. 11, 2004, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 10.7 ft above NGVD of 1929. Measuring point: Top of casing, 1.94 ft above land-surface datum.

PERIOD OF RECORD.--1981, November 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.06 ft below land-surface datum, Aug. 22, 2004; lowest measured, 11.05 ft below land-surface datum, Nov. 7, 2001.

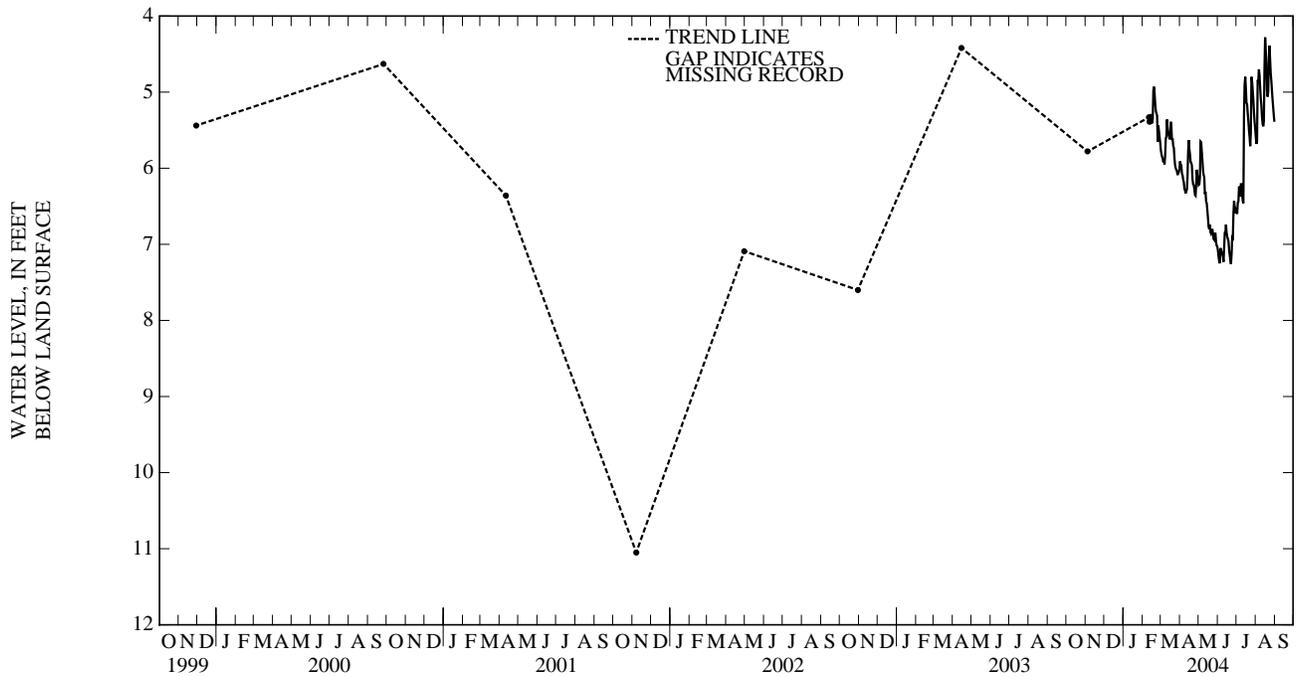
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 4.06 ft below land-surface datum, Aug. 22; lowest instantaneous water level, 7.26 ft below land-surface datum, June 22.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	5.92	6.09	5.66	7.05	6.24	4.86	---
10	---	---	---	---	---	5.58	6.33	6.12	7.23	6.35	5.18	---
15	---	---	---	---	5.38	5.62	5.63	6.56	6.85	4.80	4.68	---
20	---	---	---	---	5.02	5.61	5.96	6.84	7.14	5.38	5.06	---
25	---	---	---	---	5.65	6.00	6.35	6.93	6.92	4.80	4.75	---
EOM	---	---	---	---	5.66	6.01	6.14	7.03	6.55	5.48	5.39	---

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	5.78	APR 07	6.11	MAY 13	6.37	JUL 20	5.34
FEB 11	5.33	APR 15	5.56	JUN 08	7.11		
WATER YEAR 2004 HIGHEST 5.33 FEB 11, 2004		LOWEST 7.11 JUN 08, 2004					



CITY OF VIRGINIA BEACH—Continued

363812076021201. Local number, 62B 15.

LOCATION.--Lat 36°38'13", long 76°02'10", NAD83, Hydrologic Unit 03010205, at Creeds Elementary School in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 208 ft, screened 193 to 203 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Apr. 11, 2001 to Feb. 11, 2004, electronic data logger and pressure transducer, 60-minute record interval. Prior to April 11, 2001, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 13.78 ft above NGVD of 1929. Measuring point: Top of casing, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--August 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.93 ft below land-surface datum, Mar. 13, 2003; lowest recorded, 12.17 ft below land-surface datum, Jan. 2, 2002.

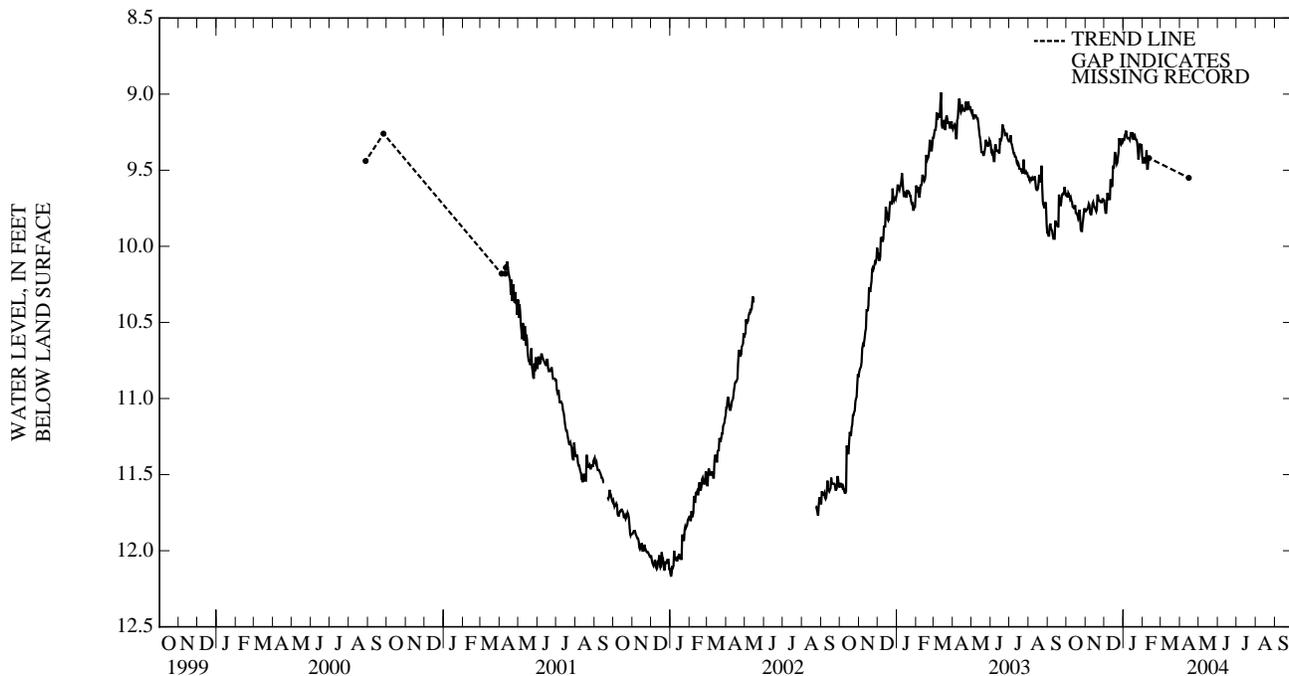
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 9.17 ft below land-surface datum, Jan. 18; lowest instantaneous water level, 9.90 ft below land-surface datum, Oct. 22.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	9.75	NOV 04	9.73	FEB 11	9.42	APR 15	9.55
WATER YEAR 2004 HIGHEST		9.42	FEB 11, 2004 LOWEST		9.75	OCT 22, 2003	

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.66	9.74	9.72	9.24	9.44	---	---	---	---	---	---	---
10	9.71	9.79	9.69	9.29	9.43	---	---	---	---	---	---	---
15	9.73	9.74	9.47	9.25	---	---	---	---	---	---	---	---
20	9.82	9.66	9.44	9.29	---	---	---	---	---	---	---	---
25	9.90	9.71	9.29	9.43	---	---	---	---	---	---	---	---
EOM	9.77	9.70	9.31	9.41	---	---	---	---	---	---	---	---



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH—Continued

363812076021202. Local number, 62B 16.

LOCATION.--Lat 36°38'12", long 76°02'10", NAD83, Hydrologic Unit 03010205, at Creeds Elementary School in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 77 ft, screened 65 to 75 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Apr. 11, 2001 to Feb. 11, 2004, electronic data logger and pressure transducer, 60-minute record interval. Prior to April 11, 2001, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 14.00 ft above NGVD of 1929. Measuring point: Top of casing, 2.13 ft above land-surface datum.

REMARKS.--Water level affected by local pumpage.

PERIOD OF RECORD.--August 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.11 ft below land-surface datum, Apr. 12, 2003; lowest recorded, 13.77 ft below land-surface datum, Oct. 8, 2003, result of nearby pumpage.

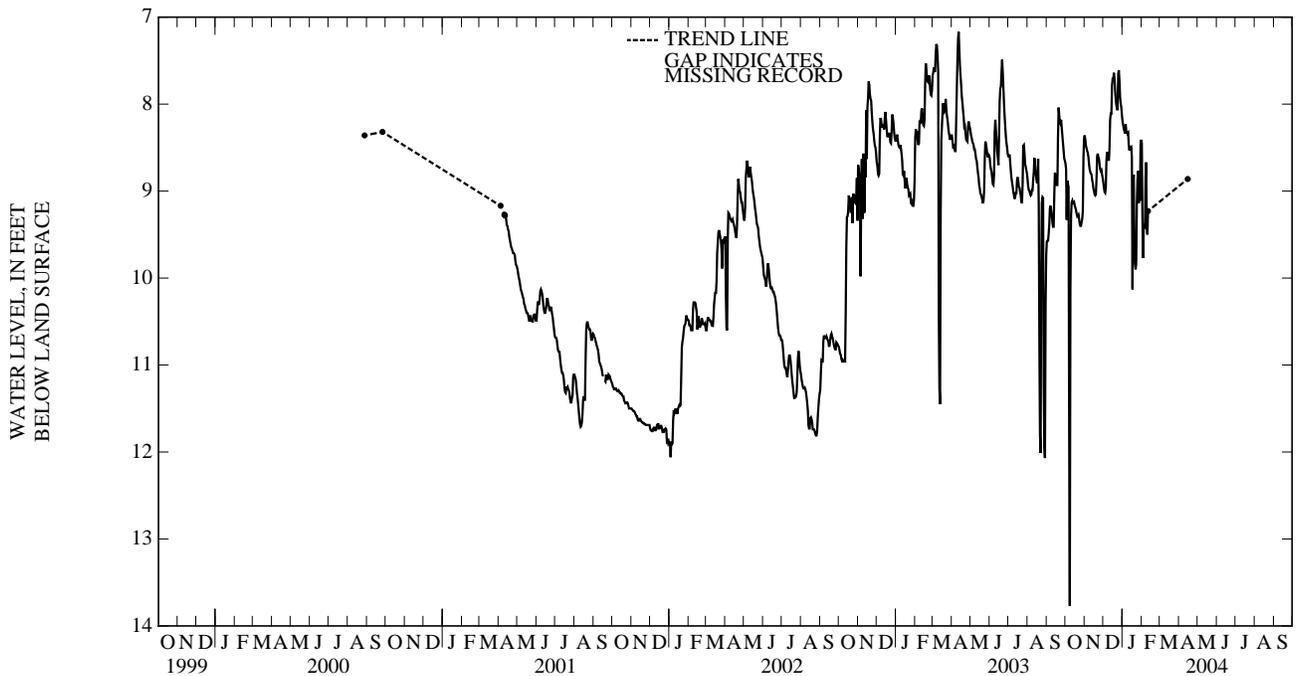
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 7.55 ft below land-surface datum, Dec. 25, 26; lowest instantaneous water level, 13.77 ft below land-surface datum, Oct. 8, result of nearby pumpage.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	9.23	NOV 04	8.45	FEB 11	9.23	APR 15	8.86
WATER YEAR 2004 HIGHEST		8.45	NOV 04, 2003 LOWEST		9.23	OCT 22, 2003 FEB 11, 2004	

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.92	8.54	8.96	8.34	9.40	---	---	---	---	---	---	---
10	9.28	8.78	8.64	8.33	9.50	---	---	---	---	---	---	---
15	9.13	8.97	7.79	8.50	---	---	---	---	---	---	---	---
20	9.29	8.87	7.84	9.59	---	---	---	---	---	---	---	---
25	9.40	8.70	7.65	8.87	---	---	---	---	---	---	---	---
EOM	8.39	8.85	8.13	8.41	---	---	---	---	---	---	---	---



CITY OF VIRGINIA BEACH—Continued

364126076013401. Local number, 62B 18.

LOCATION.--Lat 36°41'26", long 76°01'32", NAD83, Hydrologic Unit 03010205, at intersection of West Neck Road and Princess Anne Road in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 135 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

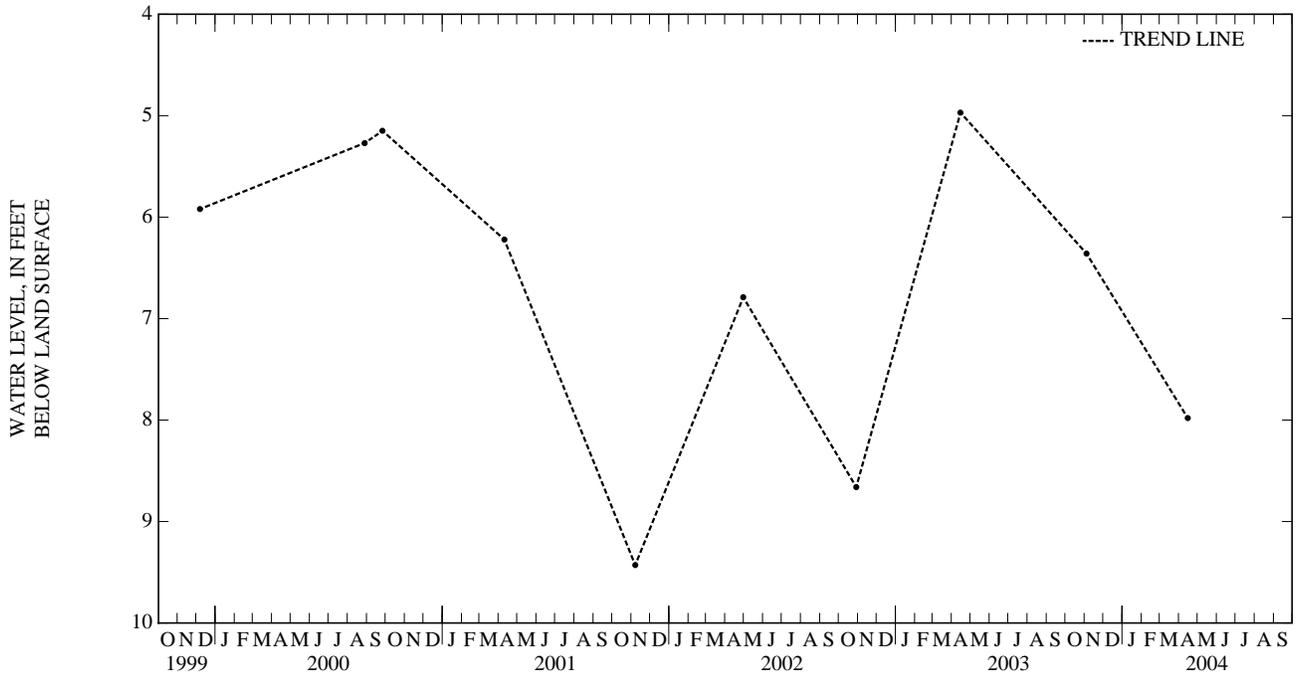
DATUM.--Elevation of land-surface datum is 13.29 ft above NGVD of 1929. Measuring point: Top of casing, 2.24 ft above land-surface datum.

PERIOD OF RECORD.--December 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.97 ft below land-surface datum, Apr. 15, 2003; lowest measured, 9.43 ft below land-surface datum, Nov. 7, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	6.36	APR 15	7.98
WATER YEAR 2004 HIGHEST 6.36 NOV 04, 2003 LOWEST 7.98 APR 15, 2004			



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364353076005401. Local number, 62B 21.

LOCATION.--Lat 36°43'54", long 76°00'53", NAD83, Hydrologic Unit 03010205, 0.2 mi east on Flannagans Lane from the intersection of Flannagans Lane and Princess Anne Road Owner: William Oliver, Jr.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 65 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

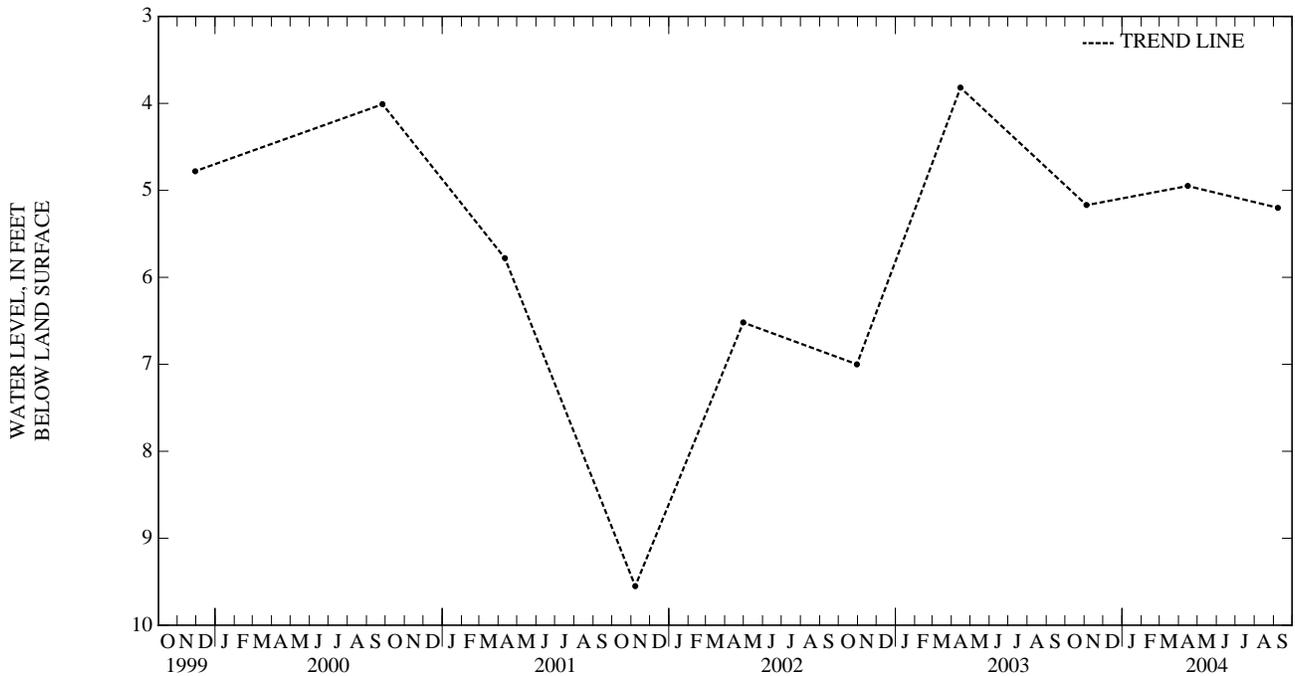
DATUM.--Elevation of land-surface datum is 10.2 ft above NGVD of 1929. Measuring point: Top of casing, 2.36 ft above land-surface datum.

PERIOD OF RECORD.--November 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.82 ft below land-surface datum, Apr. 15, 2003; lowest measured, 9.55 ft below land-surface datum, Nov. 7, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	5.17	APR 15	4.95	SEP 07	5.20
WATER YEAR 2004 HIGHEST		4.95	APR 15, 2004	LOWEST	
				5.20	SEP 07, 2004



CITY OF VIRGINIA BEACH—Continued

364325076011501. Local number, 62B 22.

LOCATION.--Lat 36°43'25", long 76°01'14", NAD83, Hydrologic Unit 03010205, 40 ft north of Indian River Road, 0.2 mi west of the intersection of Indian River Road and Princess Anne Road in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 135 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

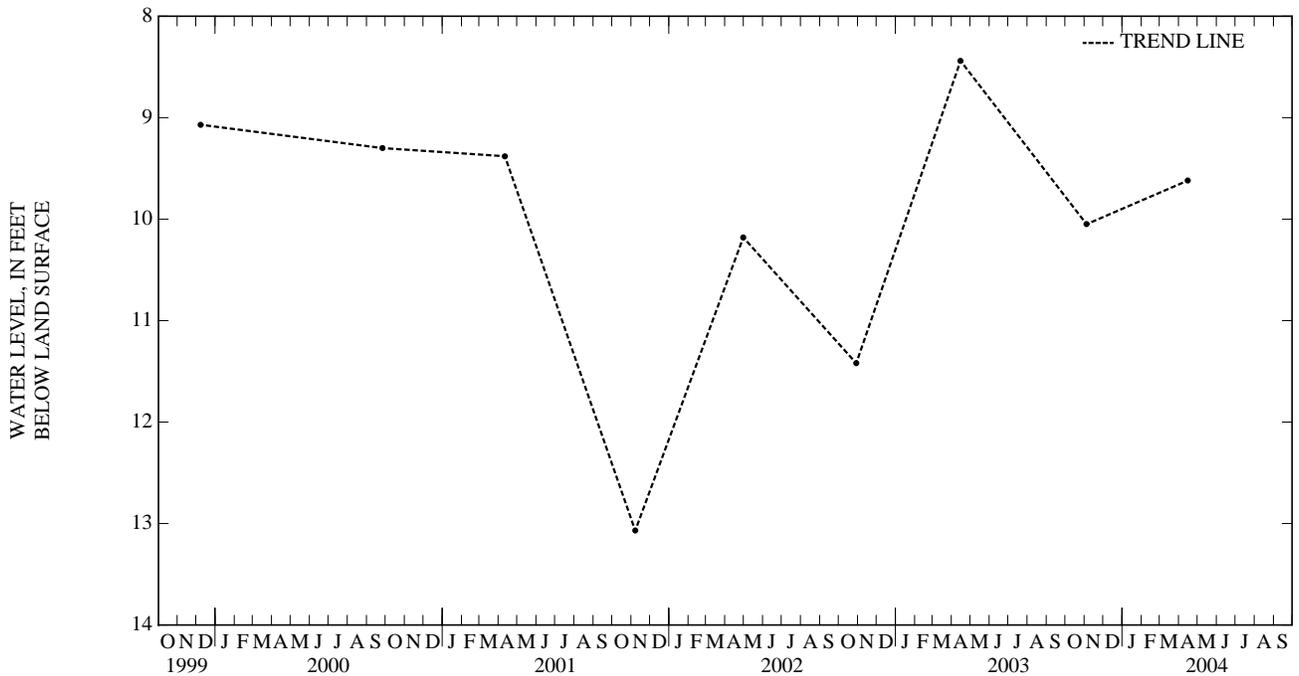
DATUM.--Elevation of land-surface datum is 10.0 ft above NGVD of 1929. Measuring point: Top of casing, 2.44 ft above land-surface datum.

PERIOD OF RECORD.--1981, August 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.40 ft below land-surface datum, Feb. 4, 1981; lowest measured, 13.07 ft below land-surface datum, Nov. 7, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	10.05	APR 15	9.62
WATER YEAR 2004 HIGHEST 9.62 APR 15, 2004 LOWEST 10.05 NOV 04, 2003			



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH—Continued

364410076002801. Local number, 62B 23.

LOCATION.--Lat 36°44'10", long 76°00'27", NAD83, Hydrologic Unit 03010205, 0.7 mi east on Flannagans Lane from the intersection of Flannagans Lane and Princess Anne Road. Owner: William Oliver, Jr.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 115 ft, screened 100 to 110 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to Apr. 7, 2004, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 9.95 ft above NGVD of 1929. Measuring point: Top of casing, 1.58 ft above land-surface datum.

PERIOD OF RECORD.--1981, December 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.55 ft below land-surface datum, Feb. 25, 1981; lowest measured, 15.56 ft below land-surface datum, Nov. 7, 2001.

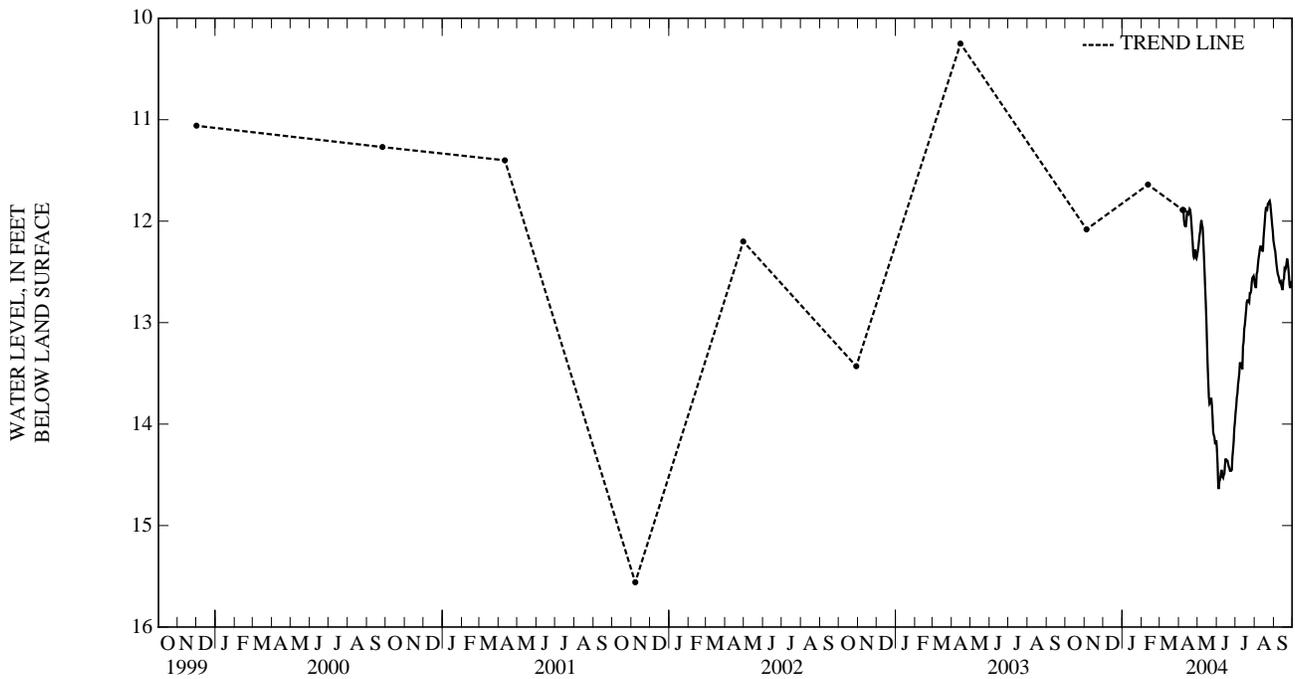
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 11.64 ft below land-surface datum, Feb. 11; lowest instantaneous water level, 14.64 ft below land-surface datum, June 4.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	12.10	14.56	13.61	12.50	12.43
10	---	---	---	---	---	---	12.04	12.19	14.52	13.40	12.25	12.60
15	---	---	---	---	---	---	11.92	12.98	14.34	13.06	12.17	12.67
20	---	---	---	---	---	---	11.95	13.80	14.42	12.78	11.87	12.46
25	---	---	---	---	---	---	12.36	13.94	14.45	12.71	11.80	12.54
EOM	---	---	---	---	---	---	12.34	14.16	13.98	12.57	12.19	12.59

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	12.08	APR 07	11.89	MAY 13	12.56	JUL 20	12.79
FEB 11	11.64	FEB 15	11.88	JUN 08	14.46		
WATER YEAR 2004 HIGHEST 11.64 FEB 11, 2004		LOWEST 14.46 JUN 08, 2004					



CITY OF VIRGINIA BEACH—Continued

364352076005402. Local number, 62B 24.

LOCATION.--Lat 36°43'53", long 76°00'53", NAD83, Hydrologic Unit 03010205, 0.2 mi east on Flannagans Lane from the intersection of Flannagans Lane and Princess Anne Road Owner: William Oliver, Jr.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 30 ft, screened 20 to 25 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

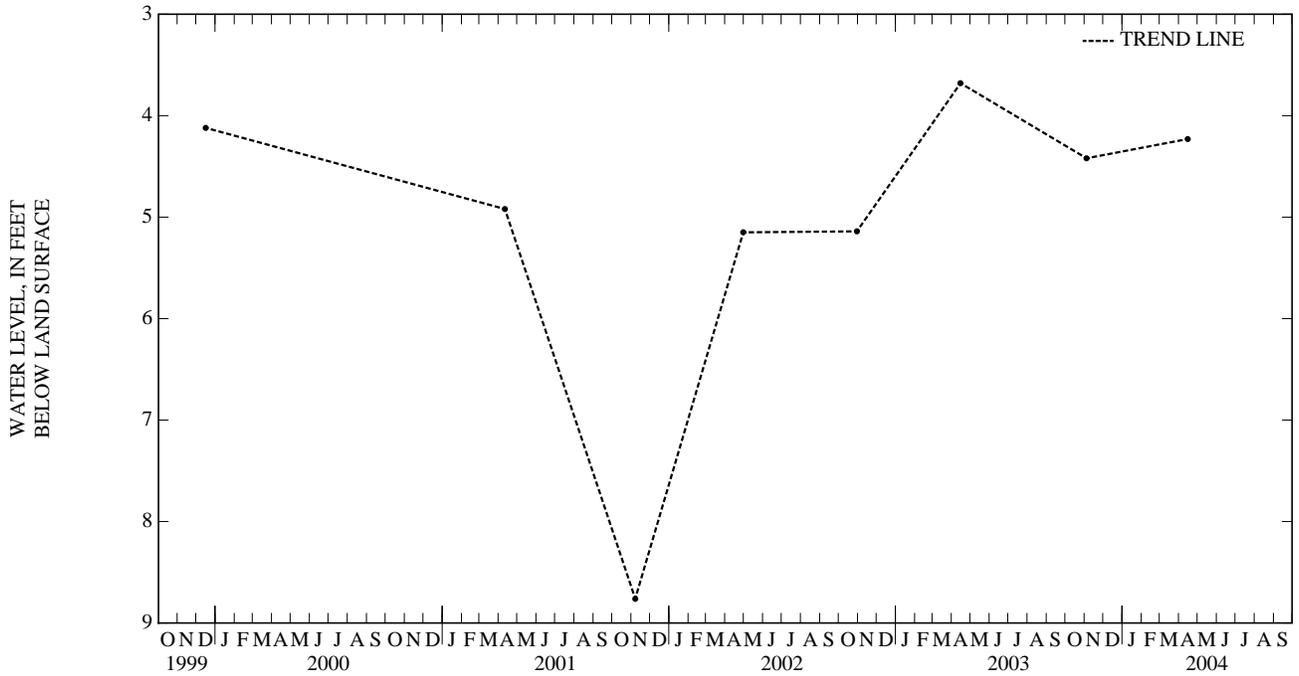
DATUM.--Elevation of land-surface datum is 10.5 ft above NGVD of 1929. Measuring point: Top of casing, 0.27 ft above land-surface datum.

PERIOD OF RECORD.--1981, December 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.68 ft below land-surface datum, Apr. 15, 2003; lowest measured, 8.76 ft below land-surface datum, Nov. 7, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	4.42	APR 15	4.23
WATER YEAR 2004 HIGHEST 4.23 APR 15, 2004 LOWEST 4.42 NOV 04, 2003			



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364713076030701. Local number, 62C 2 SOW 092A.

LOCATION.--Lat 36°47'15", long 76°03'06", NAD83, Hydrologic Unit 03010205, at entrance to Oceana Naval Air Station on London Bridge Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 102 ft, screened 97 to 102 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13.48 ft above NGVD of 1929. Measuring point: Top of casing, 1.08 ft above land-surface datum prior to Mar. 2, 1988; 0.7 ft thereafter.

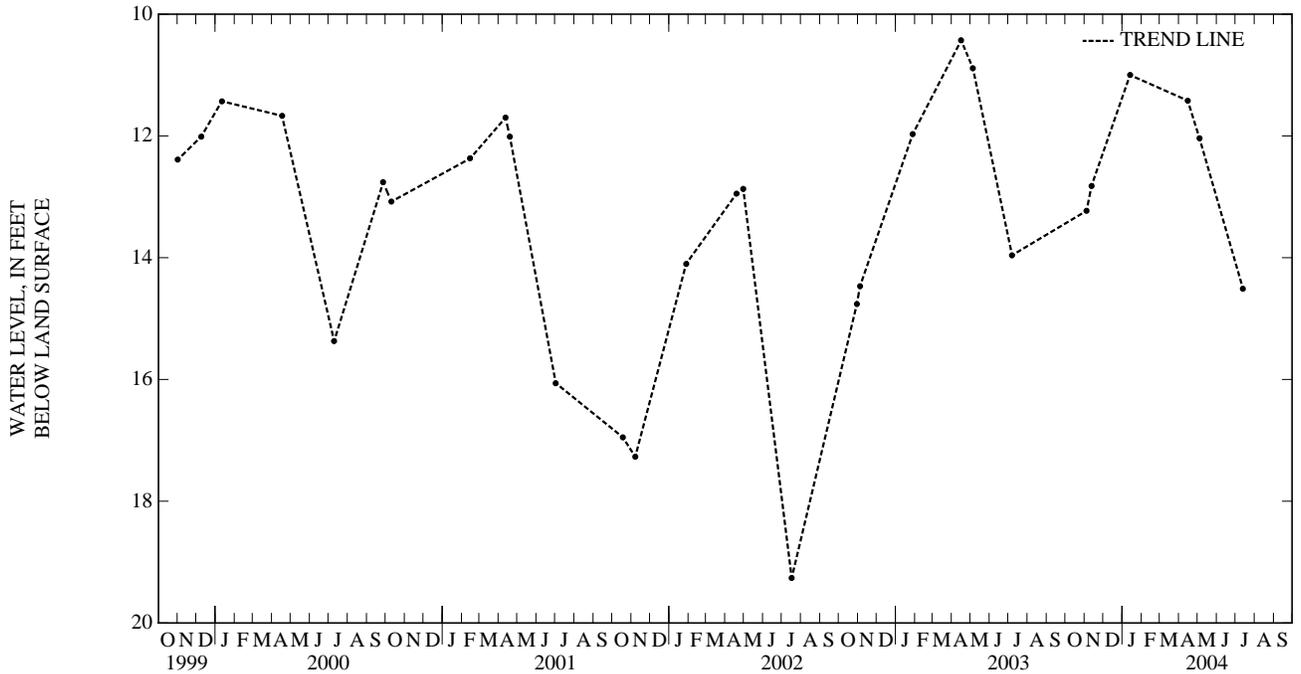
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--December 1977 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.00 ft below land-surface datum, Dec. 1, 1977; lowest measured, 19.26 ft below land-surface datum, July 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	13.23	NOV 12	12.82	JAN 13	11.00	APR 15	11.42	MAY 04	12.04	JUL 13	14.51
WATER YEAR 2004 HIGHEST		11.00	JAN 13, 2004 LOWEST		14.51						



CITY OF VIRGINIA BEACH—Continued

364715076030801. Local number, 62C 3 SOW 092B.

LOCATION.--Lat 36°47'15", long 76°03'06", NAD83, Hydrologic Unit 03010205, at entrance to Oceana Naval Air Station on London Bridge Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 58 ft, screened 53 to 58 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 13.96 ft above NGVD of 1929. Measuring point: Top of casing, 1.05 ft above land-surface datum prior to Mar. 2, 1988; 0.9 ft thereafter.

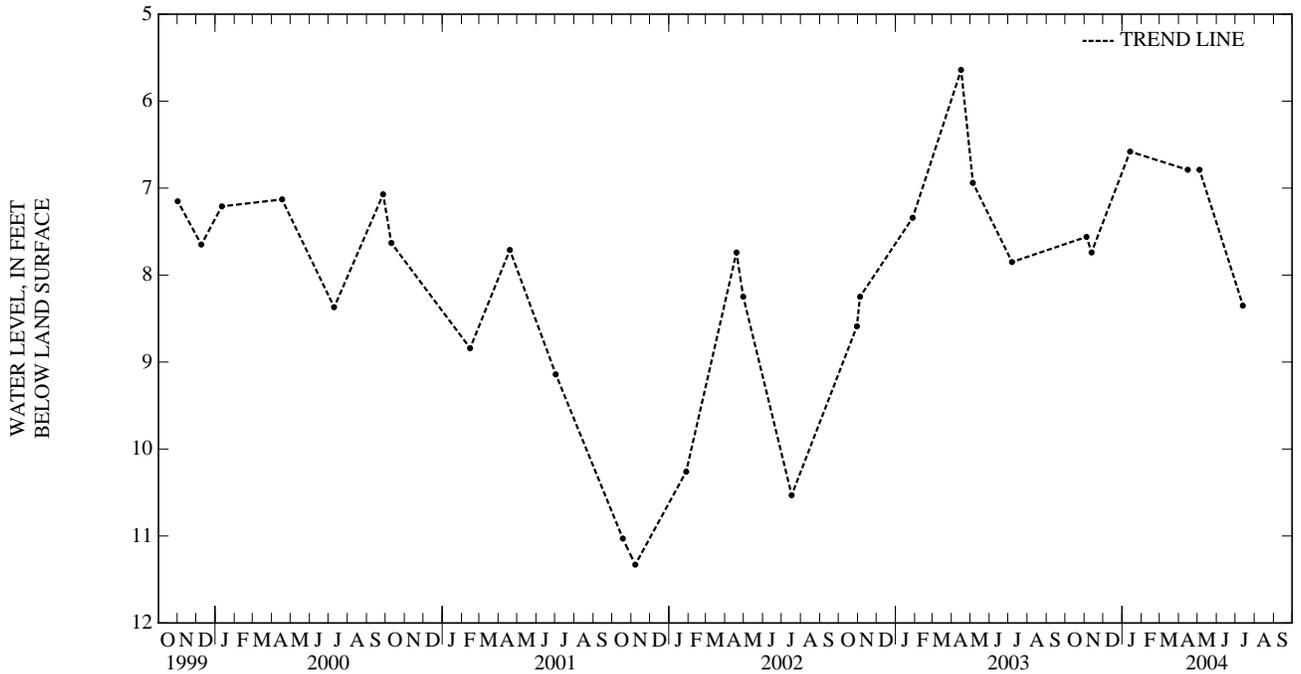
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--February 1978 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.36 ft below land-surface datum, Feb. 16, 1983; lowest measured, 11.55 ft below land-surface datum, July 14, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	7.56	NOV 12	7.74	JAN 13	6.58	APR 15	6.79	MAY 04	6.79	JUL 13	8.35
WATER YEAR 2004 HIGHEST		6.58	JAN 13, 2004 LOWEST		8.35	JUL 13, 2004					



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364504076031301. Local number, 62C 5 SOW 093.

LOCATION.--Lat 36°44'57", long 76°03'00", NAD83, Hydrologic Unit 03010205, behind Kellam Hardware and 500 feet southeast of the intersection of Princess Anne Road and North Landing Road Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 65 ft, screened 60 to 65 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. August 1999 to Feb. 11, 2004, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel. Prior to August 1999, occasional measurement by Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 7.0 ft above NGVD of 1929. Measuring point: Top of casing, 0.60 ft above land-surface datum.

PERIOD OF RECORD.--December 1977 to current year. Unpublished records available October 1995 to September 2002 and prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.84 ft below land-surface datum, Feb. 8, 1978; lowest measured, 8.57 ft below land-surface datum, Nov. 7, 2001.

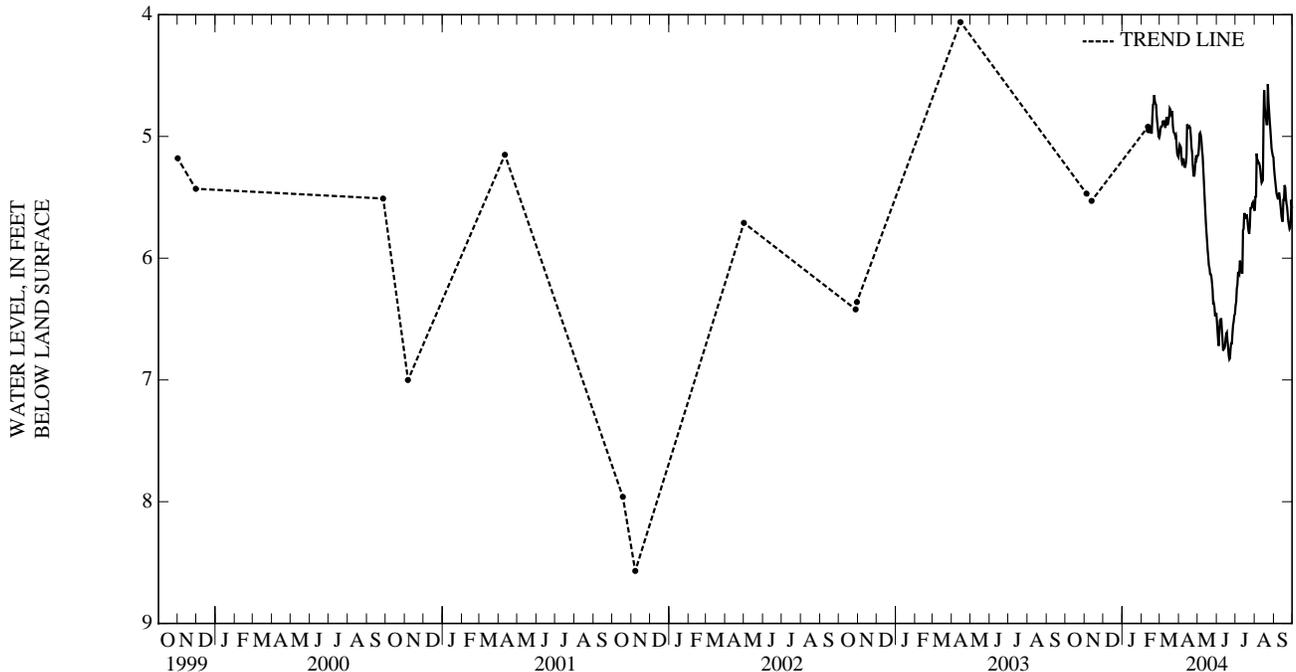
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 4.46 ft below land-surface datum, Aug. 22; lowest instantaneous water level, 6.83 ft below land-surface datum, June 21.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	4.91	5.19	4.97	6.58	6.12	5.20	5.47
10	---	---	---	---	---	4.93	5.25	5.27	6.67	6.08	5.28	5.49
15	---	---	---	---	4.93	4.87	4.91	5.78	6.66	5.63	4.88	5.70
20	---	---	---	---	4.73	4.83	5.00	6.08	6.80	5.68	4.90	5.50
25	---	---	---	---	4.83	4.98	5.33	6.26	6.70	5.59	4.87	5.73
EOM	---	---	---	---	5.01	5.17	5.16	6.45	6.46	5.60	5.17	5.59

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	5.47	FEB 11	4.92	APR 16	4.95	JUN 08	6.51
12	5.53	APR 07	5.21	MAY 12	5.44	JUL 20	5.69
WATER YEAR 2004 HIGHEST 4.92 FEB 11, 2004		LOWEST 6.51 JUN 08, 2004					



CITY OF VIRGINIA BEACH—Continued

364529076031501. Local number, 62C 8 SOW 127.

LOCATION.--Lat 36°45'34", long 76°03'19", NAD83, Hydrologic Unit 02080108, at Kellam High School in Virginia Beach Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 60 ft, screened 50 to 55 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to December 1984, Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division.

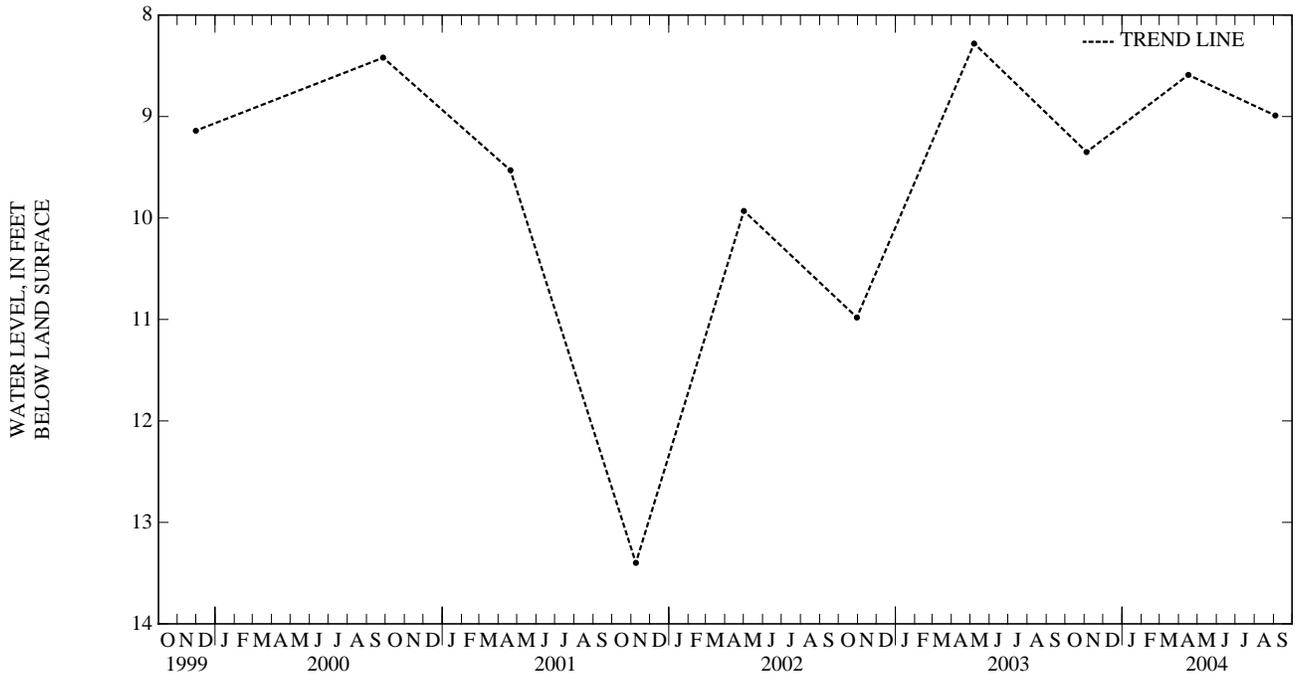
DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.10 ft above land-surface datum.

PERIOD OF RECORD.--April 1978 to December 1984, August 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.00 ft below land-surface datum, Feb. 28, 1979; lowest measured, 13.40 ft below land-surface datum, Nov. 28, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	9.35	APR 16	8.59	SEP 03	8.99
WATER YEAR 2004 HIGHEST		8.59	APR 16, 2004	LOWEST	
		9.35	NOV 04, 2003		



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364745076004301. Local number, 62C 9 SOW 172A.

LOCATION.--Lat 36°47'46.05", long 76°00'41.64", NAD27, Hydrologic Unit 03010250, at end of Phantom Blvd, 0.3 mi south of intersection of Phantom Blvd and Harpers Road Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 170 ft, screened 155 to 165 ft.

INSTRUMENTATION. --Occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel. Prior to August 1999, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

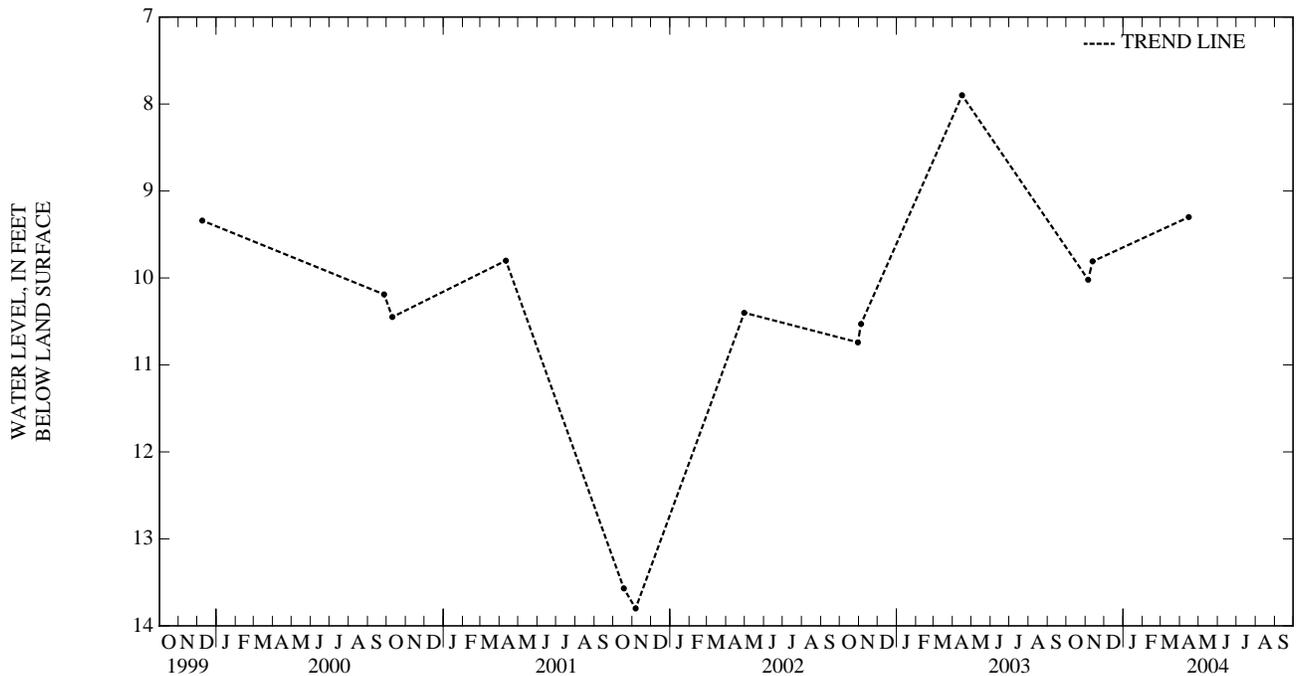
DATUM.--Elevation of land-surface datum is 17 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.60 ft above land-surface datum.

PERIOD OF RECORD.--April 1978 to current year. Unpublished records available October 1995 to September 2002 and prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.46 ft below land-surface datum, Apr. 25, 1984; lowest measured, 13.96 ft below land-surface datum, July 5, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	10.02	NOV 12	9.81	APR 15	9.30
WATER YEAR 2004 HIGHEST		9.30	APR 15, 2004 LOWEST		10.02
NOV 05, 2003					



CITY OF VIRGINIA BEACH—Continued

364745076004302. Local number, 62C 10 SOW 172B.

LOCATION.--Lat 36°47'46", long 76°00'42", NAD83, Hydrologic Unit 03010205, at the end of Phantom Boulevard, 0.25 mi south of Harpers Road and Oceana Naval Air Station in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 280 ft, screened 270 to 280 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum.

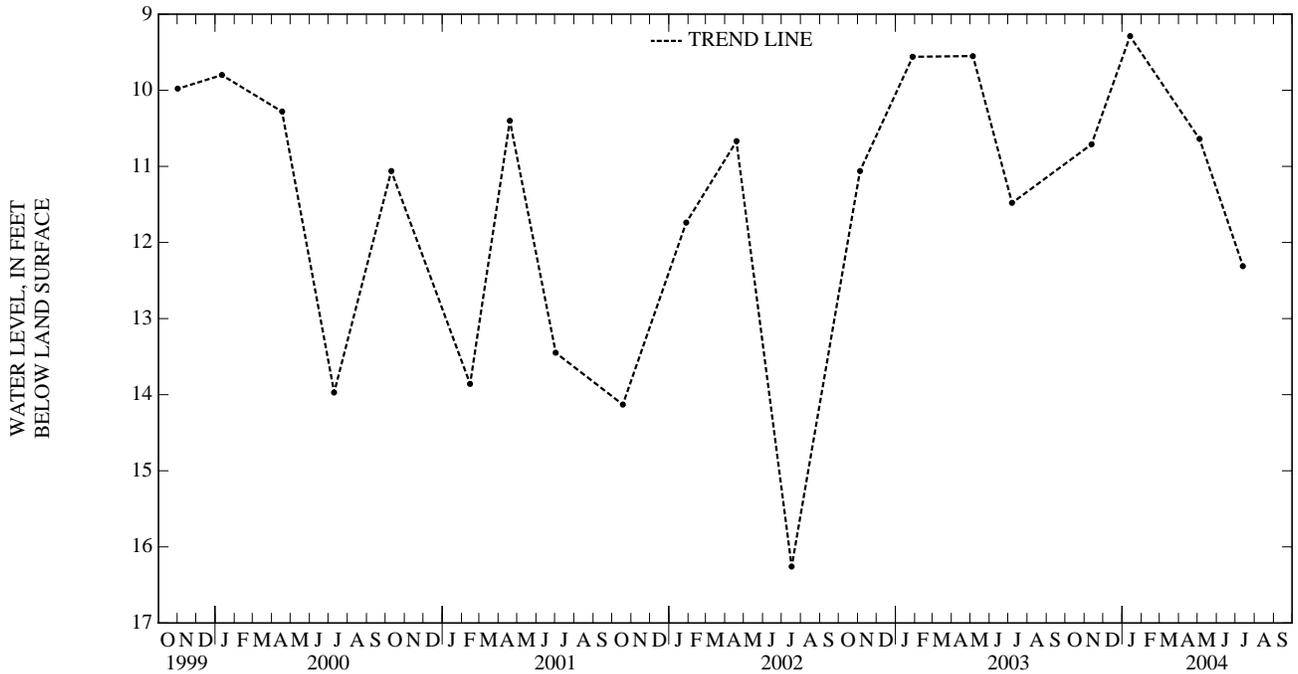
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.10 ft below land-surface datum, Jan. 30, 1991; lowest measured, 17.80 ft below land-surface datum, July 14, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	10.71	JAN 13	9.29	MAY 04	10.64	JUL 13	12.31
WATER YEAR 2004 HIGHEST		9.29	JAN 13, 2004 LOWEST		12.31	JUL 13, 2004	



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364745076004303. Local number, 62C 11 SOW 172C.

LOCATION.--Lat 36°47'47", long 76°00'42", NAD83, Hydrologic Unit 03010205, at the end of Phantom Boulevard, 0.25 mi south of Harpers Road and Oceana Naval Air Station in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 35 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 17.14 ft above NGVD of 1929. Measuring point: Top of casing, 1.7 ft above land-surface datum prior to Nov. 26, 2001; 2.27 ft thereafter.

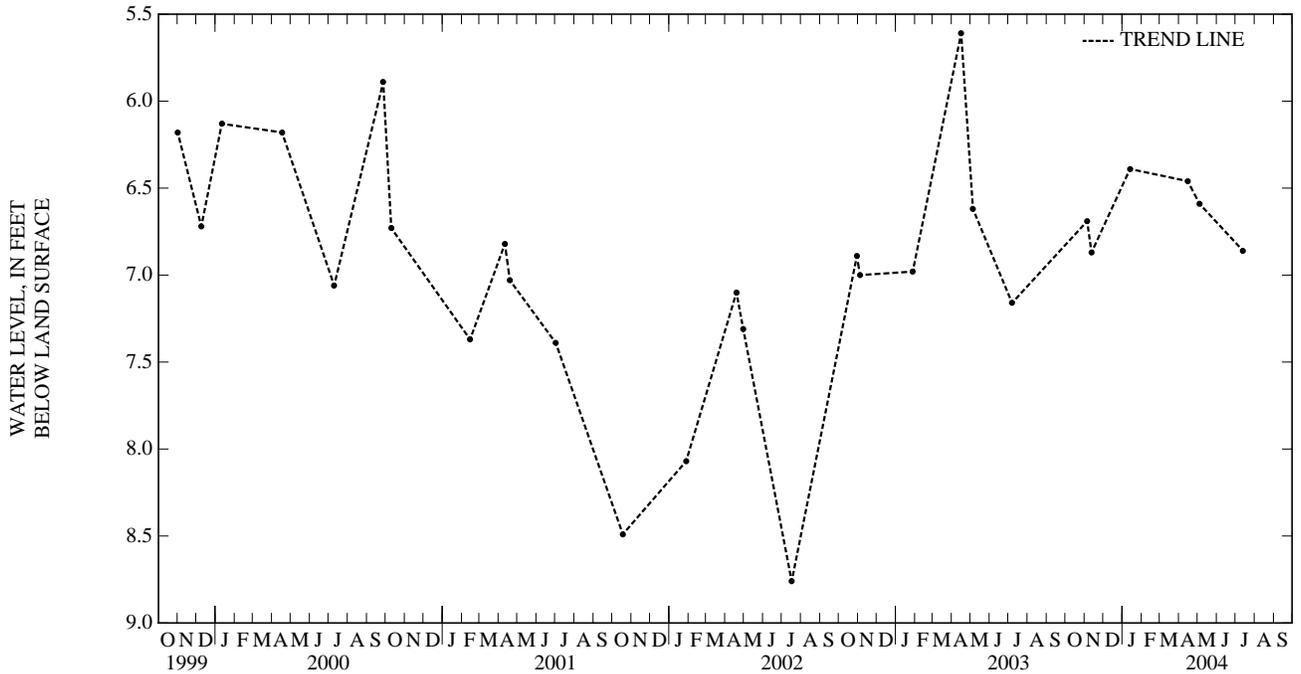
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--May 1984 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.89 ft below land-surface datum, Feb. 28, 1985; lowest measured, 8.76 ft below land-surface datum, July 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	6.69	NOV 12	6.87	JAN 13	6.39	APR 15	6.46	MAY 04	6.59	JUL 13	6.86
WATER YEAR 2004 HIGHEST		6.39	JAN 13, 2004 LOWEST		6.87	NOV 12, 2003					



CITY OF VIRGINIA BEACH—Continued

364745076004304. Local number, 62C 12 SOW 172D.

LOCATION.--Lat 36°47'47", long 76°00'43", NAD83, Hydrologic Unit 03010250, at end of Phantom Blvd, 0.3 mi south of intersection of Phantom Blvd and Harpers Road Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 75 ft, screened 60 to 70 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel.

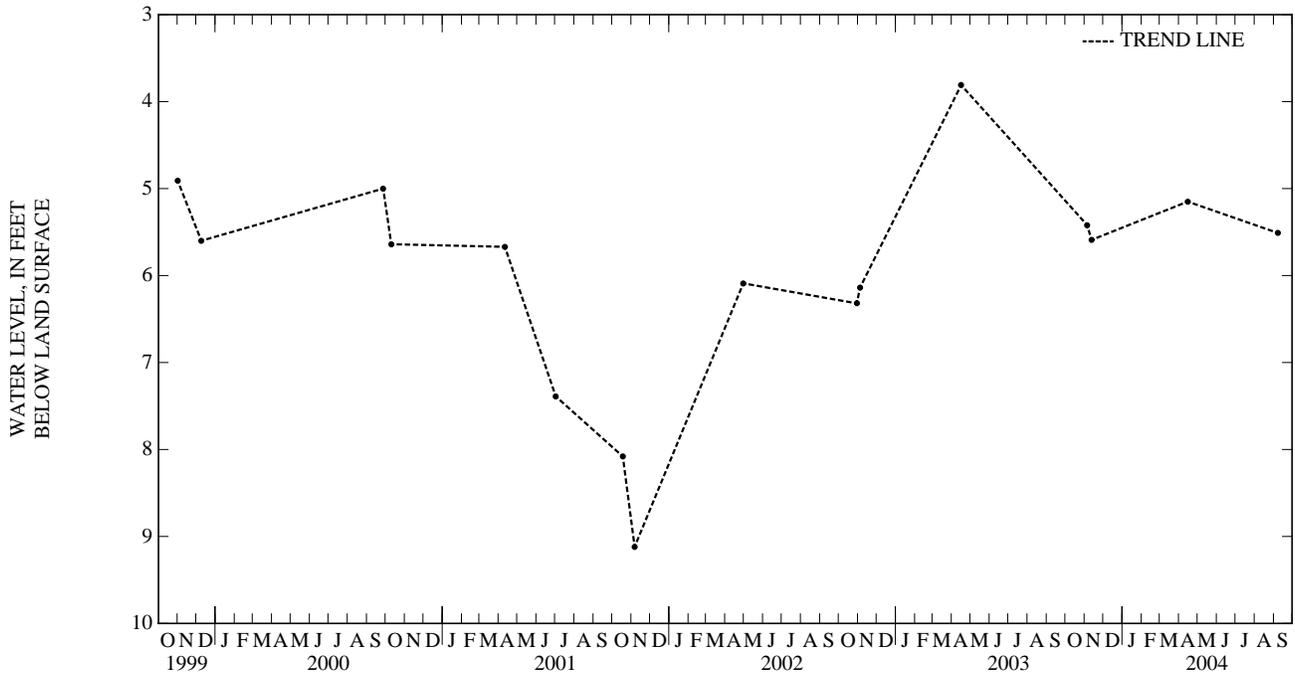
DATUM.--Elevation of land-surface datum is 16.5 ft above NGVD of 1929. Measuring point: Top of casing, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--April 1984 to current year. Unpublished records available October 1995 to September 2002 and prior to October 1987 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.56 ft below land-surface datum, Apr. 25, 1984; lowest measured, 9.12 ft below land-surface datum, Nov. 6, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	5.42	NOV 12	5.59	APR 15	5.15	SEP 07	5.51
WATER YEAR 2004 HIGHEST		5.15	APR 15, 2004 LOWEST		5.59	NOV 12, 2003	



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH—Continued

364708076024501. Local number, 62C 15.

LOCATION.--Lat 36°47'08", long 76°02'46", NAD83, Hydrologic Unit 03010205, 500 ft north of Dam Neck Road, 0.3 mi east of intersection of London Bridge Road and Dam Neck Road in Virginia Beach Owner: Claude Brown.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 195 ft, screened 180 to 190 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

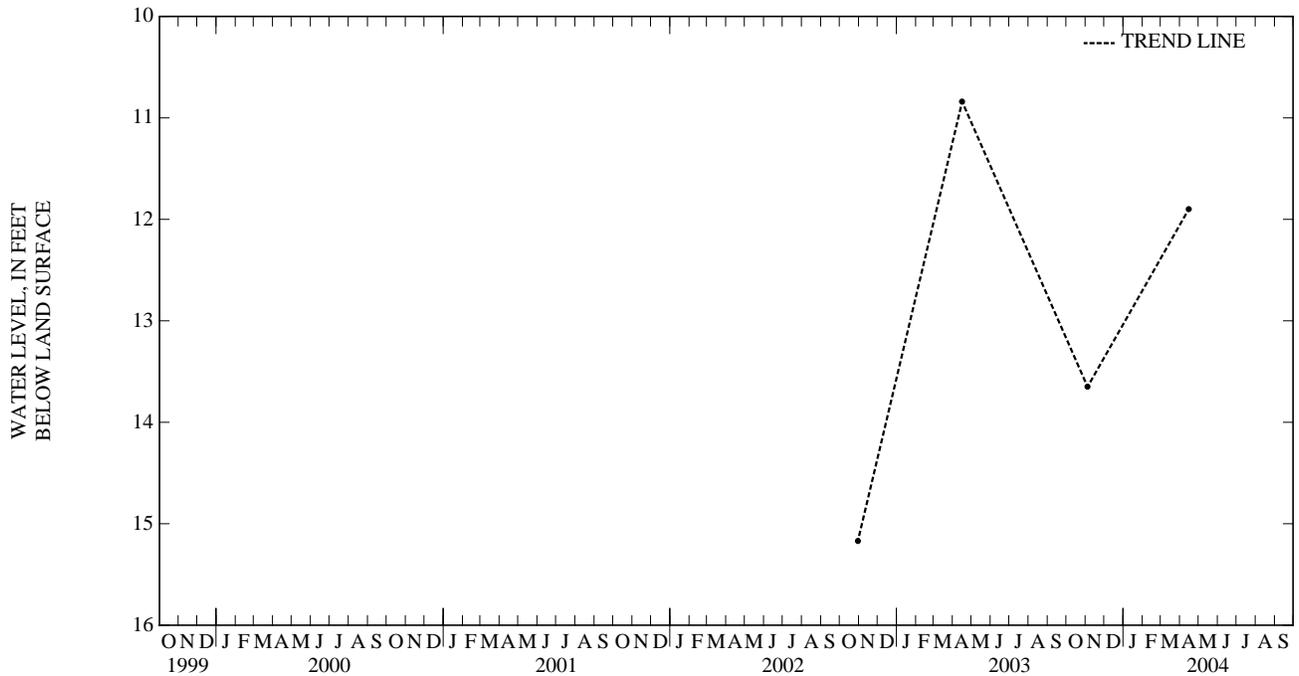
DATUM.--Elevation of land-surface datum is 15 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--October 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.84 ft below land-surface datum, Apr. 16, 2003; lowest measured, 15.17 ft below land-surface datum, Oct. 30, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	13.65	APR 15	11.90
WATER YEAR 2004 HIGHEST 11.90 APR 15, 2004		LOWEST 13.65 NOV 04, 2003	



CITY OF VIRGINIA BEACH—Continued

364916076051601. Local number, 62C 24.

LOCATION.--Lat 36°49'17", long 76°05'15", NAD83, Hydrologic Unit 02080108, at Bow Creek Municipal Golf Course, at driving-range fence off the 18th fairway. Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 135 ft, screened 120 to 130 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

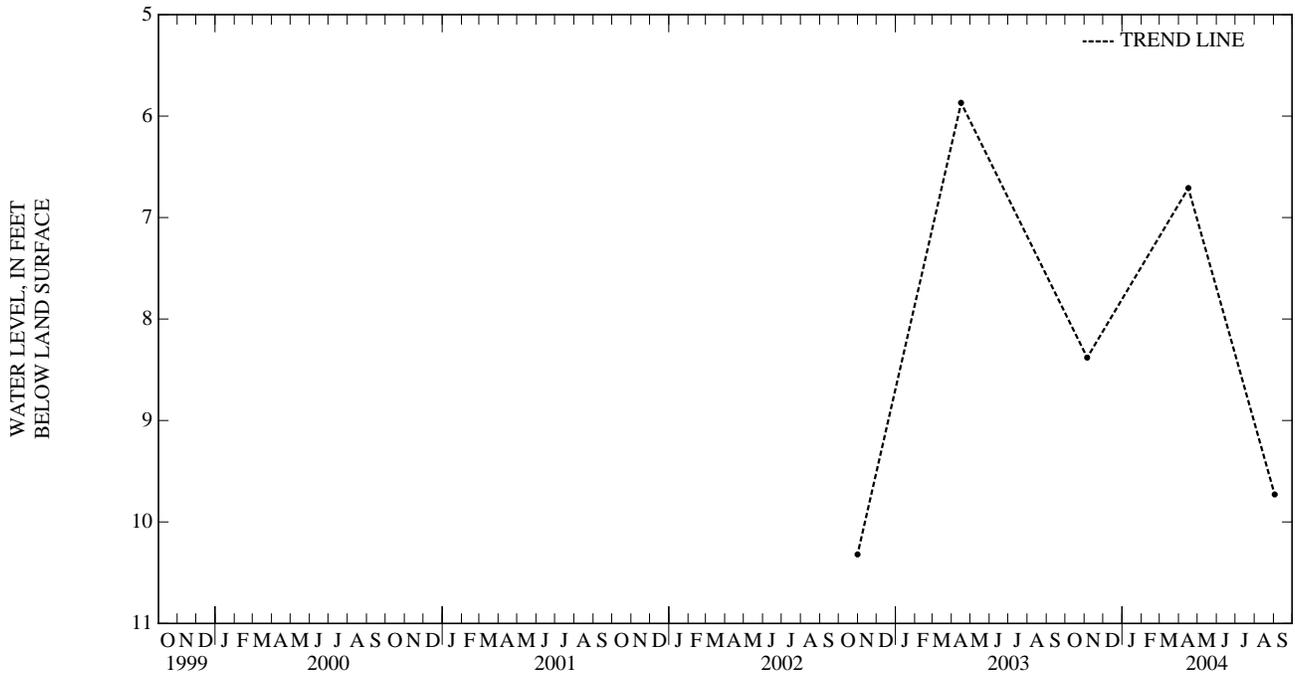
DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--October 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.87 ft below land-surface datum, Apr. 16, 2003; lowest measured, 10.32 ft below land-surface datum, Oct. 31, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	8.38	APR 16	6.71	SEP 02	9.73
WATER YEAR 2004 HIGHEST		6.71	APR 16, 2004	LOWEST	
				9.73	SEP 02, 2004



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH—Continued

365046076041601. Local number, 62C 32.

LOCATION.--Lat 36°50'47", long 76°04'15", NAD83, Hydrologic Unit 02080108, at Lynnhaven Pump Station in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 168 ft, screened 138 to 148 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to Feb. 11, 2004, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 12.69 ft above NGVD of 1929. Measuring point: Top of casing, 0.41 ft below land-surface datum.

PERIOD OF RECORD.--September 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.21 ft below land-surface datum, Apr. 16, 2003; lowest measured, 16.66 ft below land-surface datum, Sept. 13, 2001.

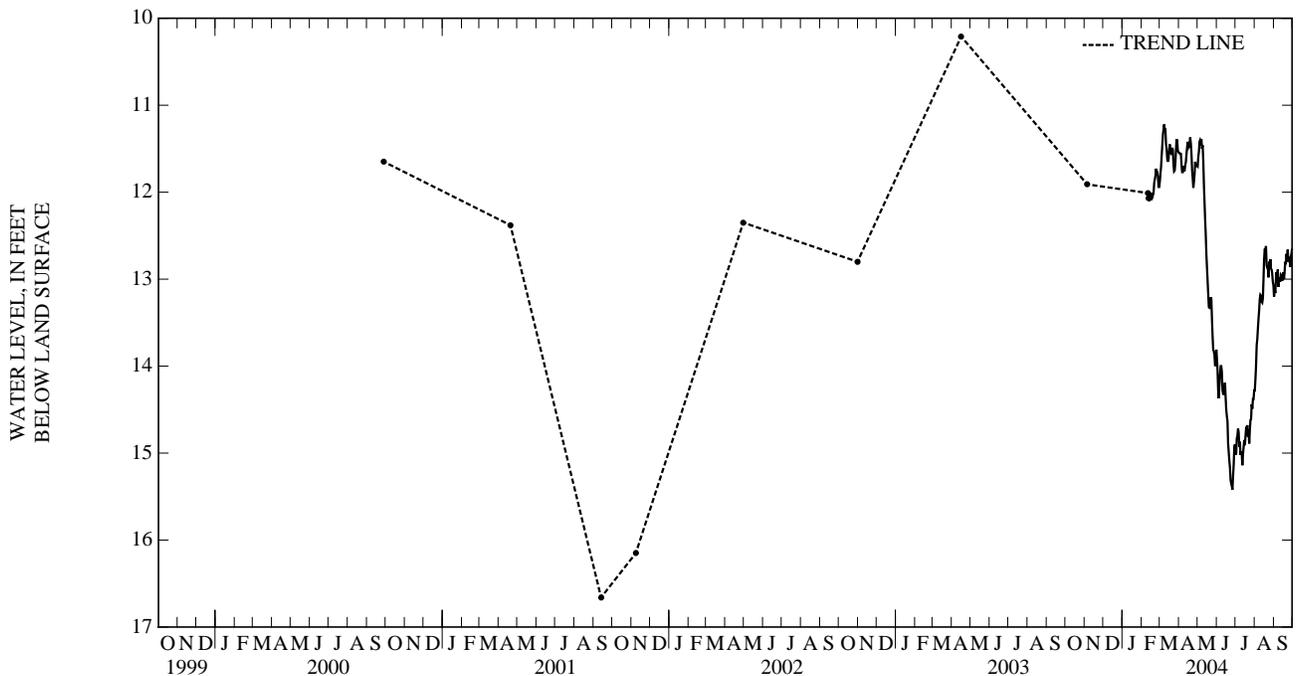
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 10.88 ft below land-surface datum, Mar. 10, 11; lowest instantaneous water level, 15.42 ft below land-surface datum, June 26.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	11.46	11.69	11.40	14.22	14.72	13.69	12.92
10	---	---	---	---	---	11.28	11.75	11.64	14.28	14.98	13.18	13.01
15	---	---	---	---	12.01	11.62	11.42	12.72	14.36	14.85	13.00	12.99
20	---	---	---	---	12.00	11.57	11.44	13.33	14.99	14.68	12.84	12.83
25	---	---	---	---	11.78	11.75	11.88	13.66	15.38	14.62	12.88	12.76
EOM	---	---	---	---	11.94	11.54	11.69	13.81	14.90	14.28	13.07	12.65

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	11.91	APR 07	11.70	MAY 13	12.10	JUL 20	14.55
FEB 11	12.01	APR 16	11.23	JUN 08	13.98		
WATER YEAR 2004 HIGHEST 11.23 APR 16, 2004		LOWEST 14.55 JUL 20, 2004					



CITY OF VIRGINIA BEACH—Continued

365046076041602. Local number, 62C 33.

LOCATION.--Lat 36°50'47", long 76°04'14", NAD83, Hydrologic Unit 02080108, at Lynnhaven Pump Station in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 4 in., depth 85 ft, screened 70 to 80 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 60-minute record interval. Prior to Feb. 11, 2004, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 12.74 ft above NGVD of 1929. Measuring point: Top of casing, 0.46 ft below land-surface datum.

PERIOD OF RECORD.--September 2000 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.16 ft below land-surface datum, Sept. 19, 2004; lowest measured, 11.58 ft below land-surface datum, Nov. 8, 2001.

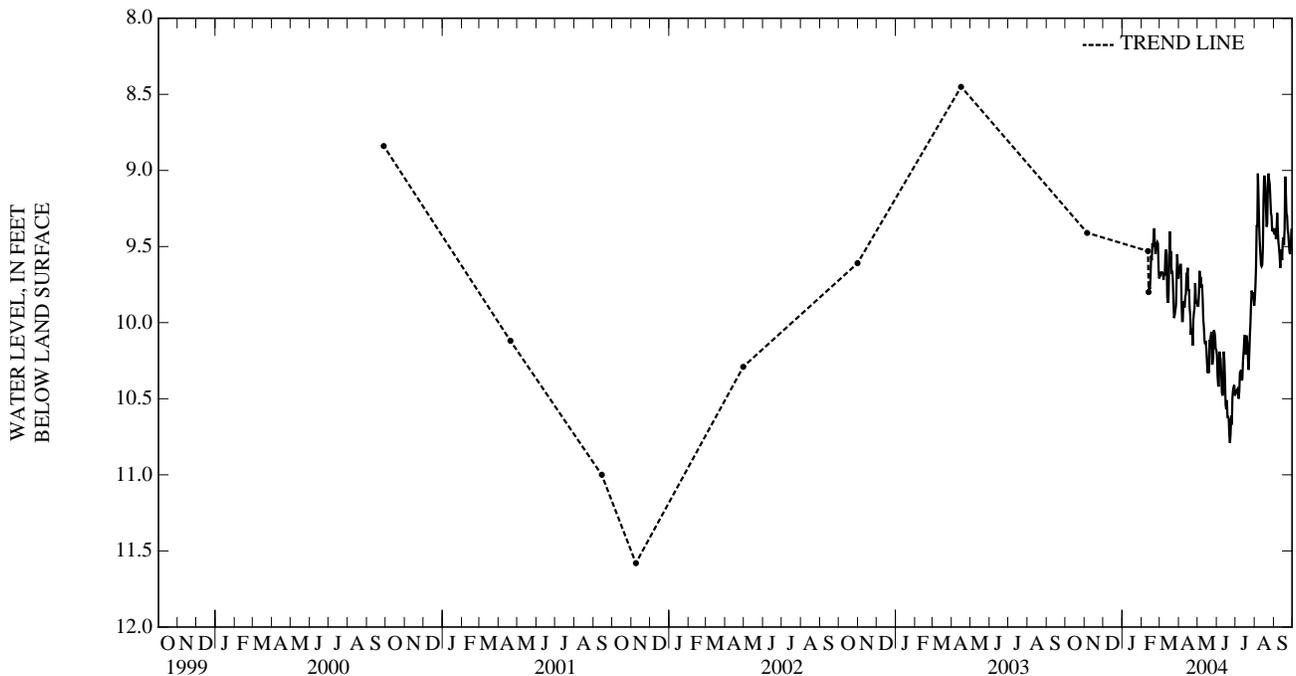
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 8.16 ft below land-surface datum, Sept. 19; lowest instantaneous water level, 10.79 ft below land-surface datum, June 22.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	9.67	9.86	9.73	10.19	10.46	9.37	9.40
10	---	---	---	---	---	9.55	9.90	9.98	10.48	10.31	9.55	9.56
15	---	---	---	---	9.70	9.83	9.64	10.18	10.54	10.12	9.20	9.47
20	---	---	---	---	9.44	9.68	10.08	10.12	10.63	10.14	9.37	9.14
25	---	---	---	---	9.48	9.95	9.93	10.27	10.67	10.00	9.09	9.49
EOM	---	---	---	---	9.71	9.71	9.87	10.18	10.48	9.89	9.40	9.39

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	9.41	APR 07	9.87	MAY 13	9.89	JUL 20	9.79
FEB 11	9.53	APR 16	9.32	JUN 08	10.23		
WATER YEAR 2004 HIGHEST 9.32		APR 16, 2004		LOWEST 10.23		JUN 08, 2004	



GROUND-WATER LEVELS
CITY OF VIRGINIA BEACH—Continued

364909076051101. Local number, 62C 34.

LOCATION.--Lat 36°49'21", long 76°05'19", NAD83, Hydrologic Unit 02080108, at Bow Creek Municipal Golf Course, near club house. Owner: City of Virginia Beach.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 75 ft, screened 60 to 70 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

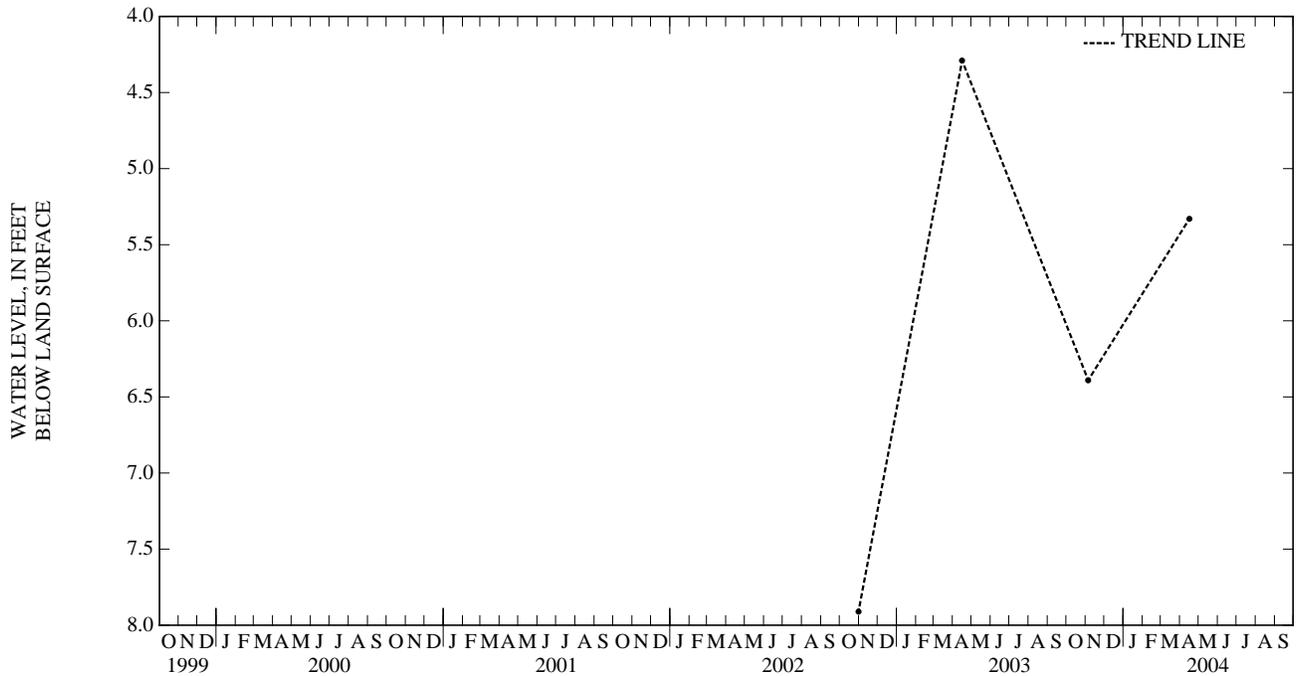
DATUM.--Elevation of land-surface datum is 10 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.70 ft above land-surface datum.

PERIOD OF RECORD.--1981, October 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.29 ft below land-surface datum, Apr. 16, 2003; lowest measured, 9.00 ft below land-surface datum, Jan. 19, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	6.39	APR 16	5.33
WATER YEAR 2004 HIGHEST 5.33		APR 16, 2004 LOWEST 6.39	
		NOV 05, 2003	



CITY OF VIRGINIA BEACH—Continued

364613075583201. Local number, 63C 2 SOW 100B.

LOCATION.--Lat 36°46'14", long 75°58'28", NAD83, Hydrologic Unit 03010205, at Hampton Roads Sanitation District Atlantic plant in Virginia Beach
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 1 in., depth 54 ft , screened 49 to 54 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to September 1995, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

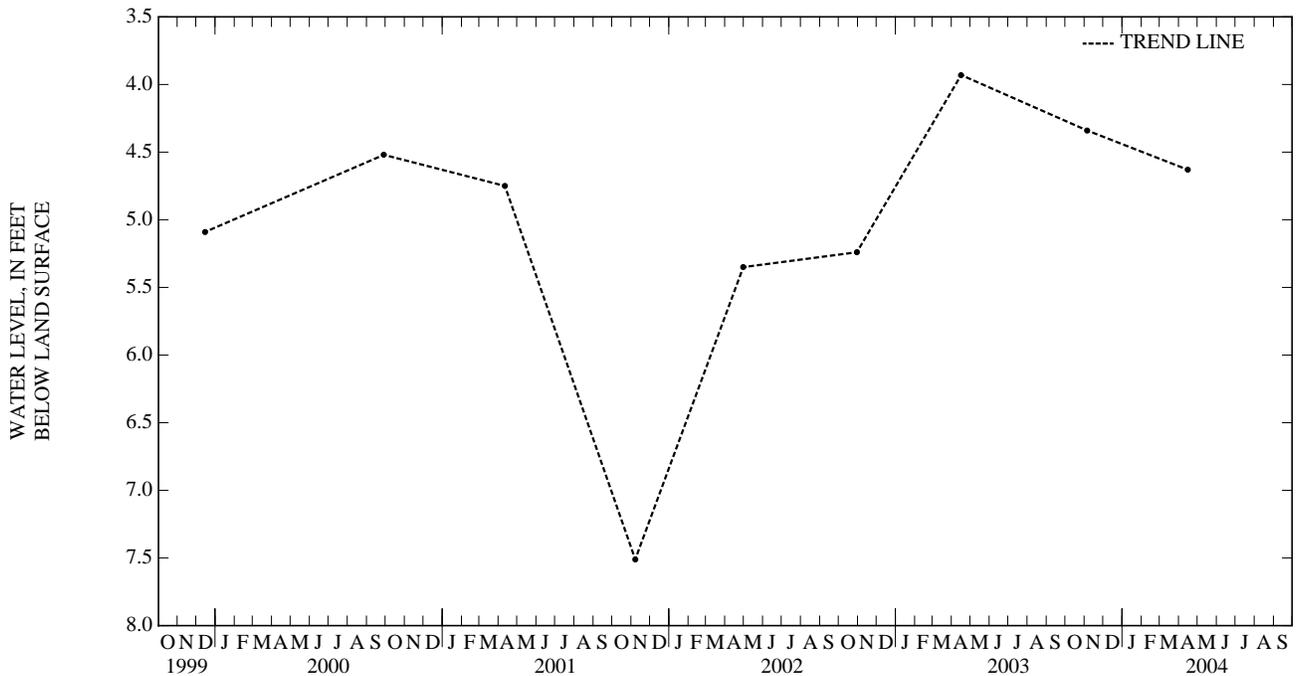
DATUM.--Elevation of land-surface datum is 7.93 ft above NGVD of 1929. Measuring point: Top of casing, 2.85 ft above land-surface datum prior to September 1995; 2.35 ft thereafter.

PERIOD OF RECORD.--March 1981 to September 1995, August 1999 to current year. Unpublished records available August 1999 to September 2002 and prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.66 ft below land-surface datum, Nov. 10, 1992; lowest measured, 10.58 ft below land-surface datum, Mar. 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	4.34	APR 15	4.63
WATER YEAR 2004 HIGHEST 4.34 NOV 05, 2003 LOWEST 4.63 APR 15, 2004			



CITY OF VIRGINIA BEACH—Continued

364613075583202. Local number, 63C 3 SOW 100C.

LOCATION.--Lat 36°46'14", long 75°58'28", NAD83, Hydrologic Unit 03010205, at Hampton Roads Sanitation District Atlantic plant in Virginia Beach
 Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 1 in., depth 35 ft , screened 30 to 35 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to September 1995, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

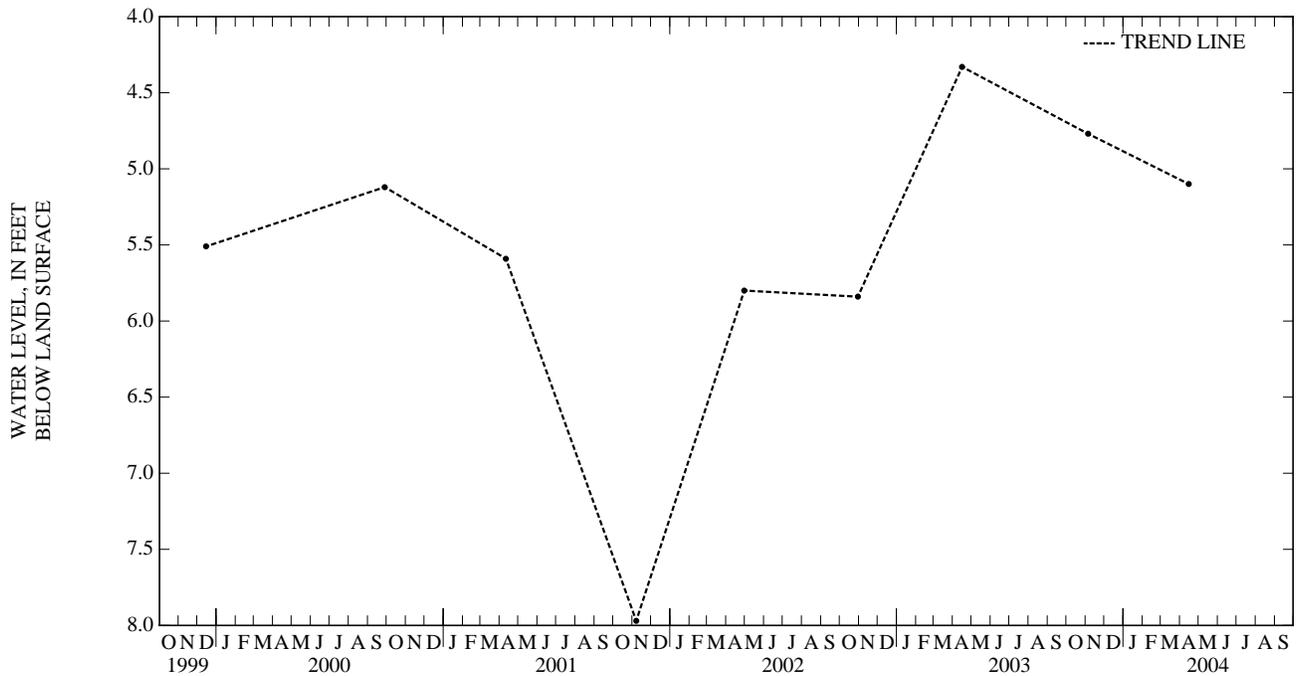
DATUM.--Elevation of land-surface datum is 7.8 ft above NGVD of 1929. Measuring point: Top of casing, 2.63 ft above land-surface datum.

PERIOD OF RECORD.--April 1981 to September 1995, August 1999 to current year. Unpublished records available August 1999 to September 2002 and prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.63 ft below land-surface datum, Jan. 4, 1994; lowest measured, 12.35 ft below land-surface datum, Apr. 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	4.77	APR 15	5.10
WATER YEAR 2004 HIGHEST 4.77 NOV 05, 2003 LOWEST 5.10 APR 15, 2004			



CITY OF VIRGINIA BEACH—Continued

364722075591801. Local number, 63C 4 SOW 173A.

LOCATION.--Lat 36°47'22", long 75°59'15", NAD83, Hydrologic Unit 02080108, at Redwing Park, 0.7 mi northeast of intersection of Oceana Boulevard and Dam Neck Road in Virginia Beach. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 3 in., depth 291 ft, screened 281 to 291 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division and USGS personnel. Oct. 10, 1985, to July 5, 1995, bimonthly measurement with chalked tape. Prior to Oct. 10, 1985, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 8 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.8 ft above land-surface datum prior to Nov. 16, 2001; 1.35 ft thereafter.

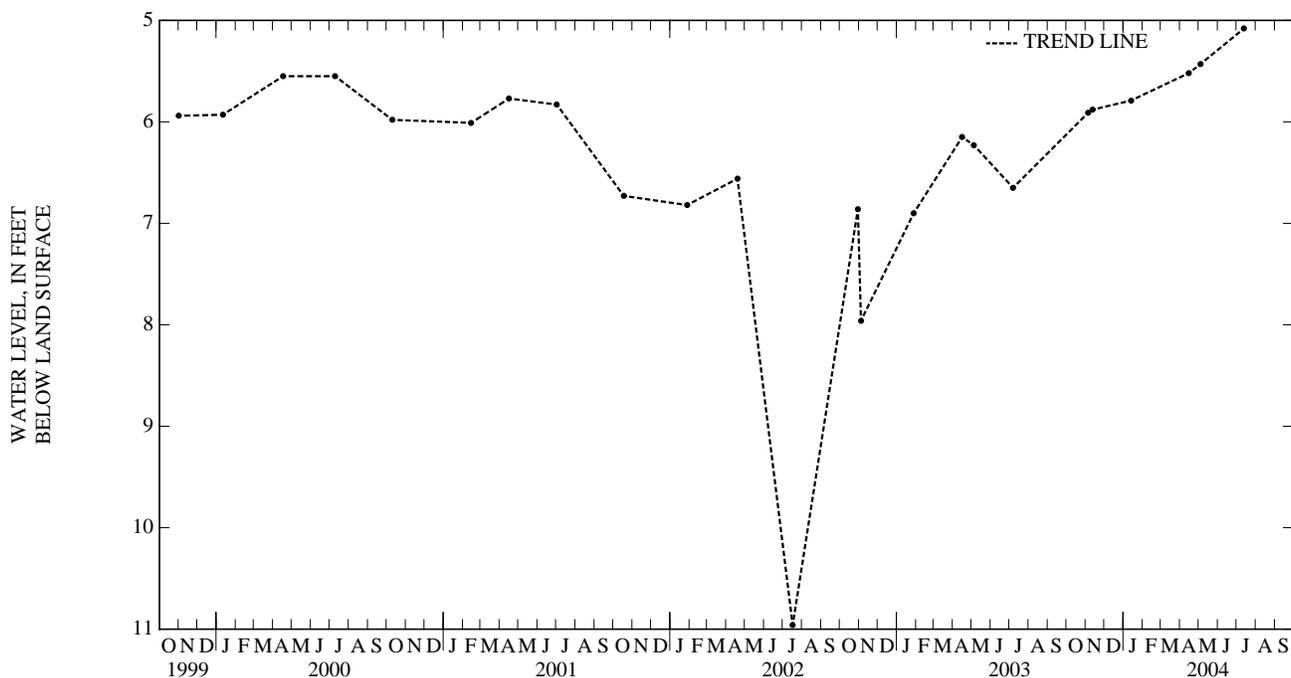
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level of July 17, 2002 result of well having been recently pumped.

PERIOD OF RECORD.--April 1984 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.10 ft below land-surface datum, June 21, 1989; lowest measured, 7.96 ft below land-surface datum, Nov. 4, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	5.91	NOV 12	5.88	JAN 13	5.79	APR 15	5.52	MAY 04	5.43	JUL 13	5.08
WATER YEAR 2004 HIGHEST		5.08 JUL 13, 2004		LOWEST		5.91 NOV 05, 2003					



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364722075591802. Local number, 63C 5 SOW 173B.

LOCATION.--Lat 36°47'23", long 75°59'17", NAD83, Hydrologic Unit 02080108, at Redwing Park, 0.7 mi northeast of intersection of Oceana Boulevard and Dam Neck Road in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 95 ft, screened 80 to 90 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel. Prior to August 1999, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

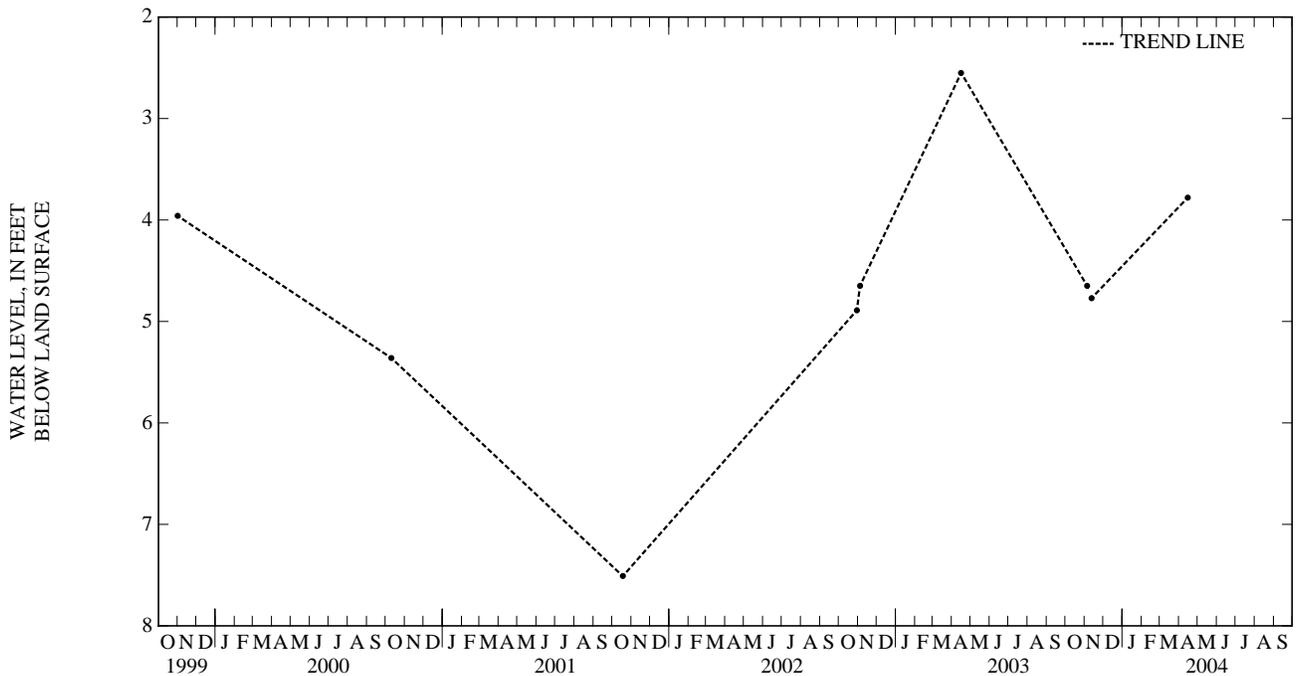
DATUM.--Elevation of land-surface datum is 9 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.90 ft above land-surface datum.

PERIOD OF RECORD.--April 1984 to current year. Unpublished records available October 1995 to September 2002 and prior to October 1985 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.00 ft below land-surface datum, Mar. 20, 1989; lowest measured, 8.86 ft below land-surface datum, July 5, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	4.65	NOV 12	4.77	APR 15	3.78
WATER YEAR 2004 HIGHEST		3.78	APR 15, 2004 LOWEST		4.77
			NOV 12, 2003		



CITY OF VIRGINIA BEACH—Continued

364728075591401. Local number, 63C 11.

LOCATION.--Lat 36°47'29", long 75°59'13", NAD83, Hydrologic Unit 03010205, at Redwing Park, 0.7 mi northeast of intersection of Oceana Boulevard and Dam Neck Road in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown confining unit of Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 85 ft, screened 70 to 80 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

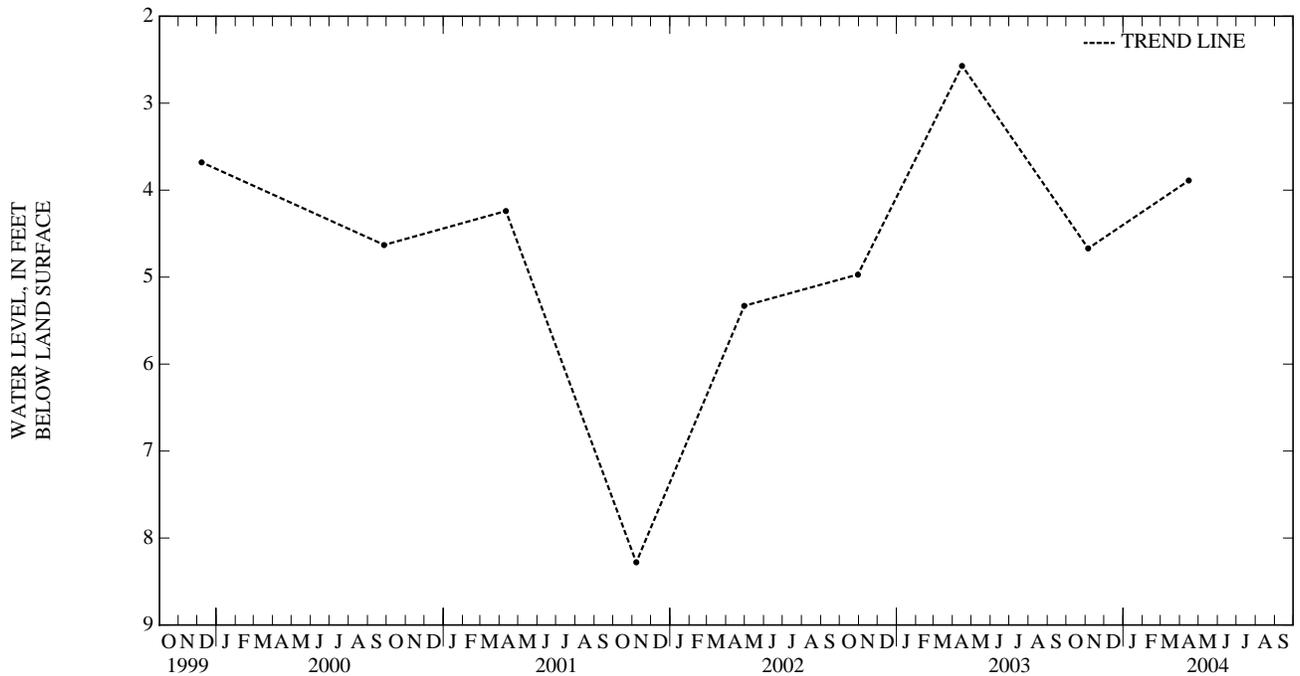
DATUM.--Elevation of land-surface datum is 8.4 ft above NGVD of 1929. Measuring point: Top of casing, 0.83 ft above land-surface datum.

PERIOD OF RECORD.--May 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.57 ft below land-surface datum, Apr. 16, 2003; lowest measured, 8.52 ft below land-surface datum, Aug. 24, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	4.67	APR 15	3.89
WATER YEAR 2004 HIGHEST 3.89 APR 15, 2004 LOWEST 4.67 NOV 05, 2003			



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

364721075591601. Local number, 63C 13.

LOCATION.--Lat 36°47'21", long 75°59'15", NAD83, Hydrologic Unit 03010205, at Redwing Park, 0.7 mi northeast of intersection of Oceana Boulevard and Dam Neck Road in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 205, screened 190 to 200.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

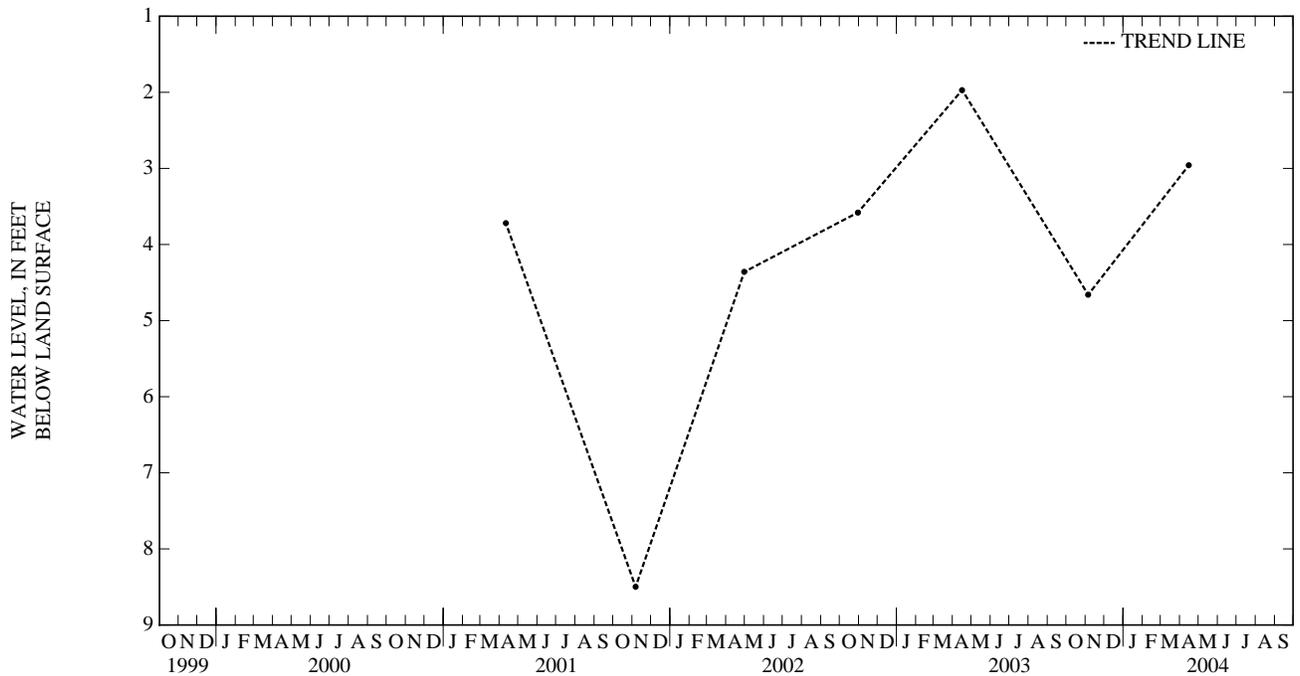
DATUM.--Elevation of land-surface datum is 7.5 ft NGVD of 1929. Measuring point: Top of casing, 0.85 ft above land-surface datum.

PERIOD OF RECORD.--April 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.97 ft below land-surface datum, Apr. 16, 2003; lowest recorded, 8.50 ft below land-surface datum, Nov. 6, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	4.66	APR 15	2.96
WATER YEAR 2004 HIGHEST 2.96 APR 15, 2004 LOWEST 4.66 NOV 05, 2003			



CITY OF VIRGINIA BEACH—Continued

364721075591701. Local number, 63C 19.

LOCATION.--Lat 36°47'22", long 75°59'15", NAD83, Hydrologic Unit 03010205, at Redwing Park, 0.7 mi northeast of intersection of Oceana Boulevard and Dam Neck Road in Virginia Beach Owner: City of Virginia Beach.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 3 in., depth 30, screened 25 to 30.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

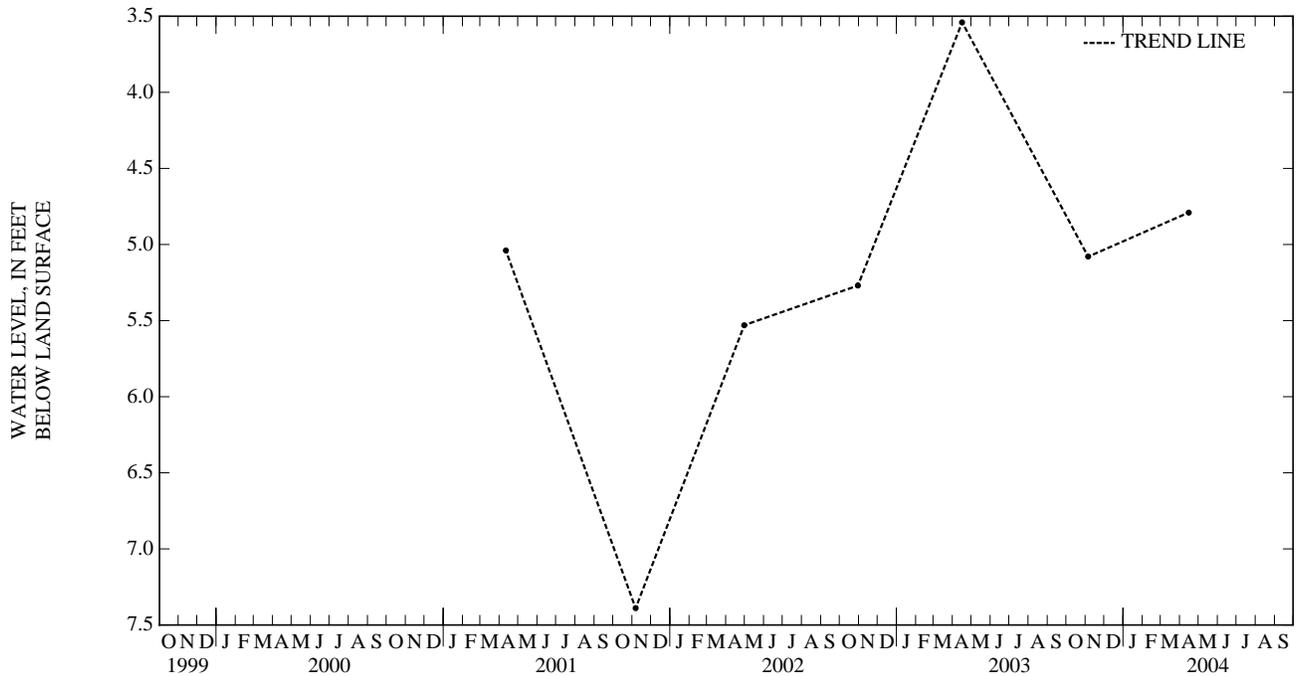
DATUM.--Elevation of land-surface datum is 8.2 ft NGVD of 1929. Measuring point: Top of casing, 0.67 ft above land-surface datum.

PERIOD OF RECORD.--1981, April 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.54 ft below land-surface datum, Apr. 16, 2003; lowest recorded, 7.39 ft below land-surface datum, Nov. 6, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	5.08	APR 15	4.79
WATER YEAR 2004 HIGHEST 4.79 APR 15, 2004 LOWEST 5.08 NOV 05, 2003			



GROUND-WATER LEVELS

CITY OF VIRGINIA BEACH—Continued

365045075585301. Local number, 63C 20.

LOCATION.--Lat 36°50'45", long 75°58'51", NAD83, Hydrologic Unit 03010205, at Sir Afton Inn, 516 19th Street in Virginia Beach Owner: Richard Neathery.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled water well, diameter 1 in., depth 39 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

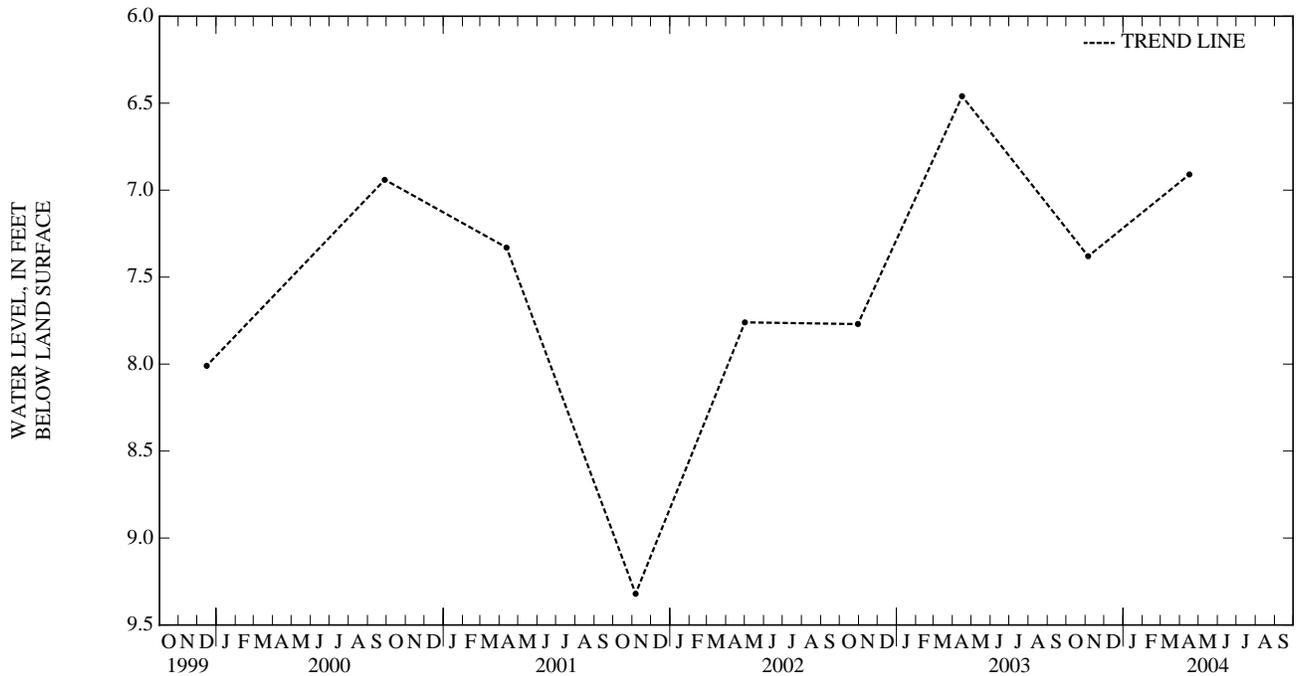
DATUM.--Elevation of land-surface datum is 10.8 ft above NGVD of 1929. Measuring point: Top of casing, 0.60 ft above land-surface datum.

PERIOD OF RECORD.--December 1999 to current year. Unpublished records available prior to October 2002 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.46 ft below land-surface datum, Apr. 16, 2003; lowest measured, 9.32 ft below land-surface datum, Nov. 6, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	7.38	APR 16	6.91
WATER YEAR 2004 HIGHEST 6.91 APR 16, 2004 LOWEST 7.38 NOV 05, 2003			



GROUND-WATER LEVELS
WESTMORELAND COUNTY

381110076550501. Local number, 55P 5.

LOCATION.--Lat 38°11'10", long 76°55'04", NAD83, Hydrologic Unit 02070011, behind craft shop at George Washington Birthplace National Monument, 3.8 mi southeast of Colonial Beach. Owner: National Park Service.

AQUIFER.--Middle Potomac aquifer of Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 6 in., depth 471 ft, screened 451 to 466 ft.

INSTRUMENTATION.--Electronic data logger, 60-minute record interval. Apr. 24, 1979 to Nov. 2, 1999, digital recorder, 60-minute punch. Prior to Apr. 24, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 24 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 3.0 ft above land-surface datum.

REMARKS.--Missing record due to recorder malfunction. Water level affected by local pumpage and regional drawdown.

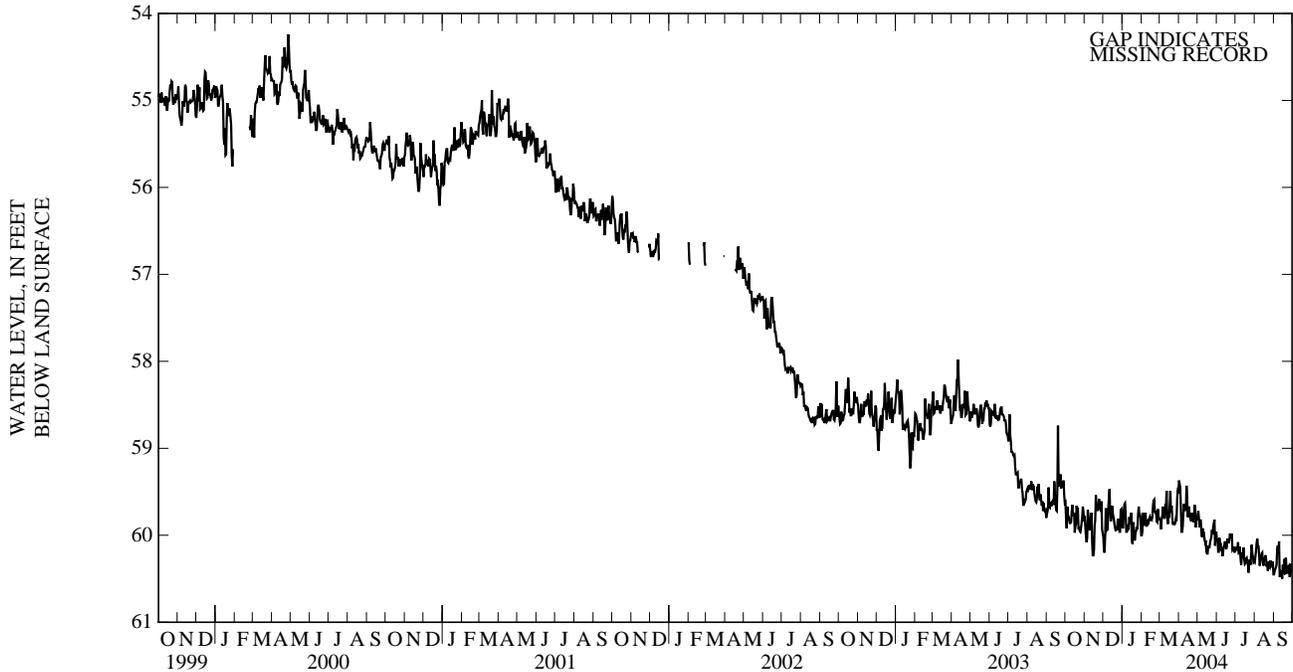
PERIOD OF RECORD.--June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.05 ft below land-surface datum, June 24, 1974; lowest recorded, 60.50 ft below land-surface datum, Sept. 14, 2004.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 58.76 ft below land-surface datum, Dec. 11; lowest instantaneous water level, 60.50 ft below land-surface datum, Sept. 14.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.81	60.03	59.69	59.63	59.89	59.77	59.96	59.83	60.03	60.08	60.04	60.34
10	59.85	59.88	59.57	59.90	59.86	59.64	59.70	59.97	60.24	60.34	60.28	60.47
15	59.74	60.23	59.66	59.74	59.82	59.74	59.79	60.19	60.12	60.28	60.35	60.34
20	59.73	59.71	59.92	60.05	59.60	59.66	59.83	60.14	60.09	60.30	60.36	60.26
25	59.96	59.68	59.81	59.93	59.84	59.87	59.85	59.99	59.98	60.34	60.37	60.35
EOM	59.84	59.98	59.87	60.00	59.81	59.49	59.83	59.96	60.19	60.30	60.45	60.42



WESTMORELAND COUNTY—Continued

381132076551001. Local number, 55P 9.

LOCATION.--Lat 38°11'32", long 76°55'09", NAD83, Hydrologic Unit 02070011, at George Washington Birthplace National Monument, 500 ft east of park road, 0.6 mi north of the end of State Highway 204, and 3.4 mi southeast of Colonial Beach. Owner: National Park Service.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Dug unused water well, diameter 36 in., depth 22.6 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. Prior to Dec. 15, 2003, occasional measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 17 ft above NGVD of 1929, from topographic map. Measuring point: Top of concrete lip on casing, 1.65 ft above land-surface datum prior to July 3, 1995. July 3, 1995 to Dec. 15, 2003, top of concrete hatch on well casing, 2.25 ft above land-surface datum. Top of recorder shelf, 2.30 ft thereafter.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.79 ft above land-surface datum, Aug. 1, 2004; lowest measured, 12.80 ft below land-surface datum, Dec. 27, 1988.

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 0.79 ft above land-surface datum, Aug. 1; lowest instantaneous water level, 3.08 ft below land-surface datum, July 12.

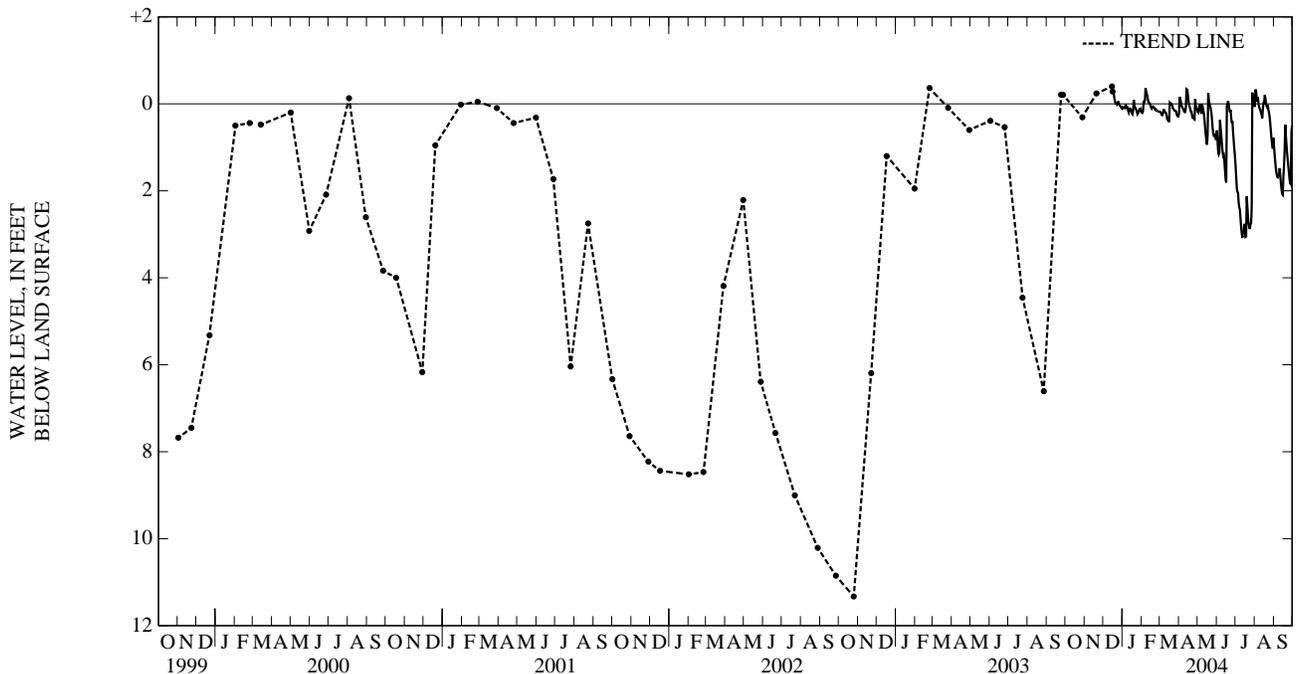
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	0.10	+0.04	0.26	0.04	0.06	1.12	2.05	+0.05	1.60
10	---	---	---	0.16	+0.18	0.20	0.19	0.14	1.09	2.84	0.15	1.48
15	---	---	---	0.16	0.04	0.40	+0.24	0.83	1.73	2.76	+0.02	2.09
20	---	---	+0.04	0.03	0.07	0.01	0.18	+0.01	0.02	2.36	0.05	0.72
25	---	---	+0.06	0.24	0.15	0.16	0.35	0.55	0.44	2.78	0.32	1.58
EOM	---	---	0.08	0.18	0.18	0.29	0.13	0.81	1.21	0.02	0.78	0.50

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+"), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL								
OCT 28	.31	DEC 15	+0.40	FEB 11	+0.14	APR 16	+0.15	JUN 30	1.11
NOV 20	+0.24	FEB 04	+0.08	FEB 25	.14	JUN 28	.72	JUL 23	2.76

WATER YEAR 2004 HIGHEST +0.40 DEC 15, 2003 LOWEST 2.76 JUL 23, 2004



WESTMORELAND COUNTY—Continued

380538076490801. Local number, 56N 1 SOW 016.

LOCATION.--Lat 38°05'38", long 76°49'07", NAD83, Hydrologic Unit 02080104, at Washington and Lee School, 0.5 mi east of Montross. Owner: Westmoreland County Public Schools.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 4 in. to 189 ft, diameter 2 in. from 189 to 641 ft, depth 641 ft, screened 608 to 628 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 3, 1985, to July 11, 1995, bimonthly measurement with chalked tape. Mar. 31, 1979, to Oct. 2, 1985, occasional measurement with chalked tape. Prior to Mar. 31, 1979, continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 149 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

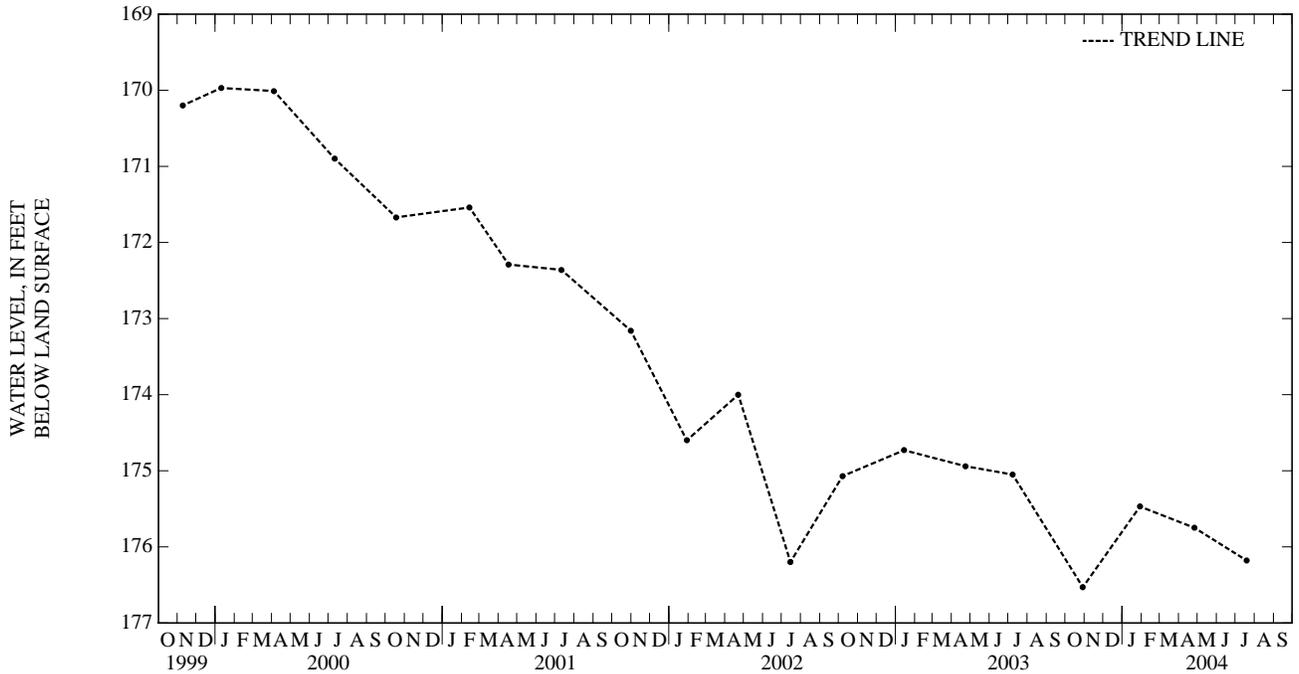
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by regional drawdown.

PERIOD OF RECORD.--August 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 133.47 ft below land-surface datum, Aug. 28, 1967; lowest measured, 176.53 ft below land-surface datum, Oct. 29, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	176.53	JAN 29	175.47	APR 26	175.75	JUL 19	176.18
WATER YEAR 2004 HIGHEST		175.47	JAN 29, 2004 LOWEST		176.53	OCT 29, 2003	



GROUND-WATER LEVELS

CITY OF WINCHESTER

391138078111901. Local number, 45X 7.

LOCATION.--Lat 39°11'38.24", long 78°11'19.02", NAD83, Hydrologic Unit 02070004, 0.20 mi. northeast of the intersection of U.S. Highway 50 and Linden Drive and 100 ft east of Linden Drive. Owner: Linden Drive Properties LLC.

AQUIFER.--Elbrook Formation of Middle to Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled domestic water well, diameter 6 in., depth unknown, length of casing unknown.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

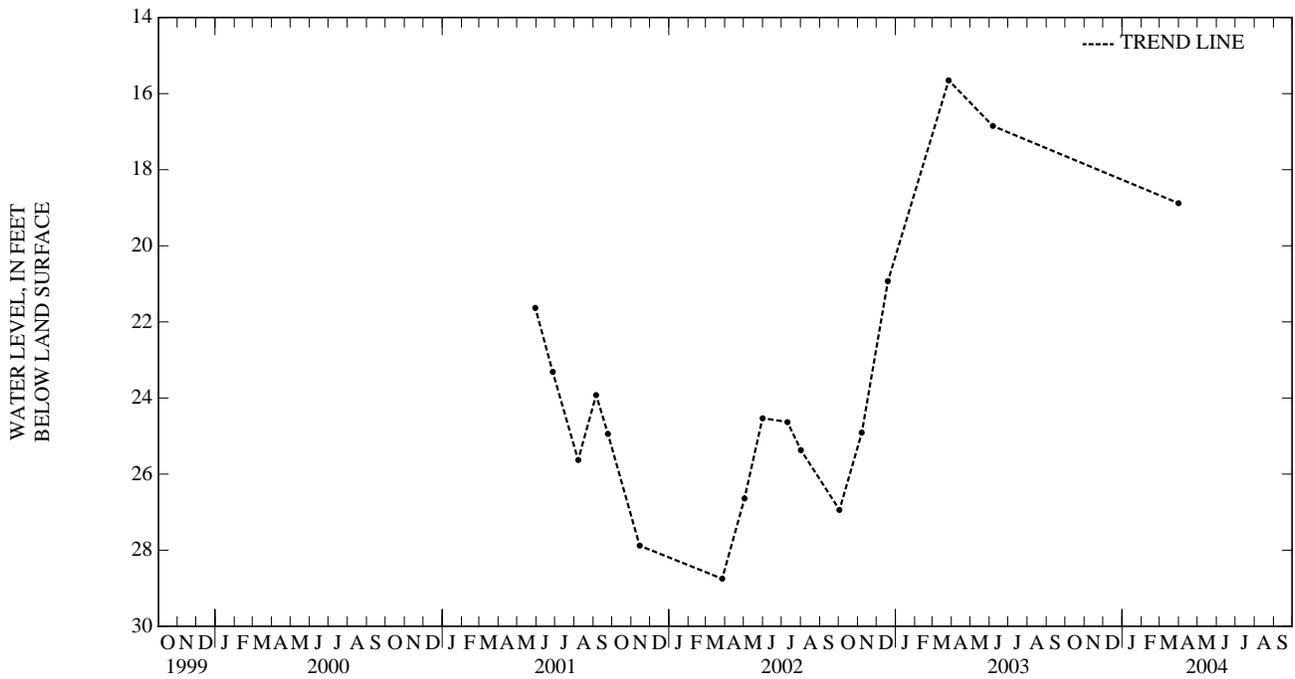
DATUM.--Elevation of land-surface datum is 800 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 3.15 ft below land-surface datum.

PERIOD OF RECORD.--May 2001 to March 2004 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.65 ft below land-surface datum, Mar. 27, 2003; lowest measured, 28.75 ft below land-surface datum, Mar. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL
MAR 31	18.88



CITY OF WINCHESTER—Continued

391122078102401. Local number, 45X 8.

LOCATION.--Lat 39°11'22.20", long 78°10'24.22", NAD83, Hydrologic Unit 02070004, 980 ft north of the intersection of Selma Drive and U.S. Highway 50. Owner: John W. Truban.

AQUIFER.--Conococheague Limestone of Upper Cambrian to Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled water well, diameter 6 in., depth 280 ft, cased to 23 ft, open hole 23 to 280 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by USGS personnel.

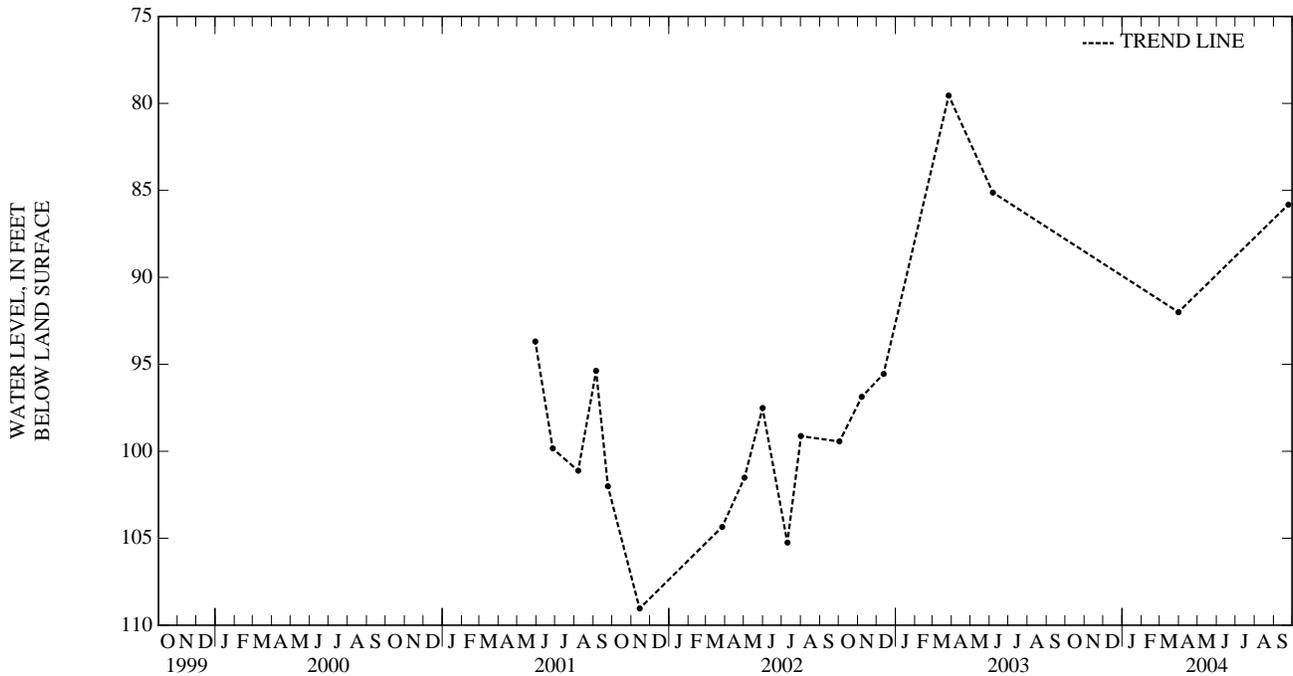
DATUM.--Elevation of land-surface datum is 825 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.7 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.55 ft below land-surface datum, Mar. 27, 2003; lowest measured, 109.04 ft below land-surface datum, Nov. 14, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 31	92.00	SEP 24	85.82
WATER YEAR 2004 HIGHEST 85.82 SEP 24, 2004		LOWEST 92.00 MAR 31, 2004	



GROUND-WATER LEVELS

YORK COUNTY

371654076401601. Local number, 57G 17 SOW 068.

LOCATION.--Lat 37°16'55", long 76°40'15", NAD83, Hydrologic Unit 02080107, 250 ft east of State Highway 716 at Parkway Estates, 0.5 mi east of Williamsburg. Owner: Sydnor Hydrodynamics.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age and Aquia aquifer of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 8 in., depth 452.3 ft, screened 411 to 426 ft, 442.2 to 452.3 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 1, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Apr. 30, 1978, to Sept. 30, 1985, occasional measurement with chalked tape. Jan. 15, 1974, to Apr. 30, 1978, continuous strip-chart recorder. Prior to Jan. 15, 1974, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 60 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.85 ft above land-surface datum.

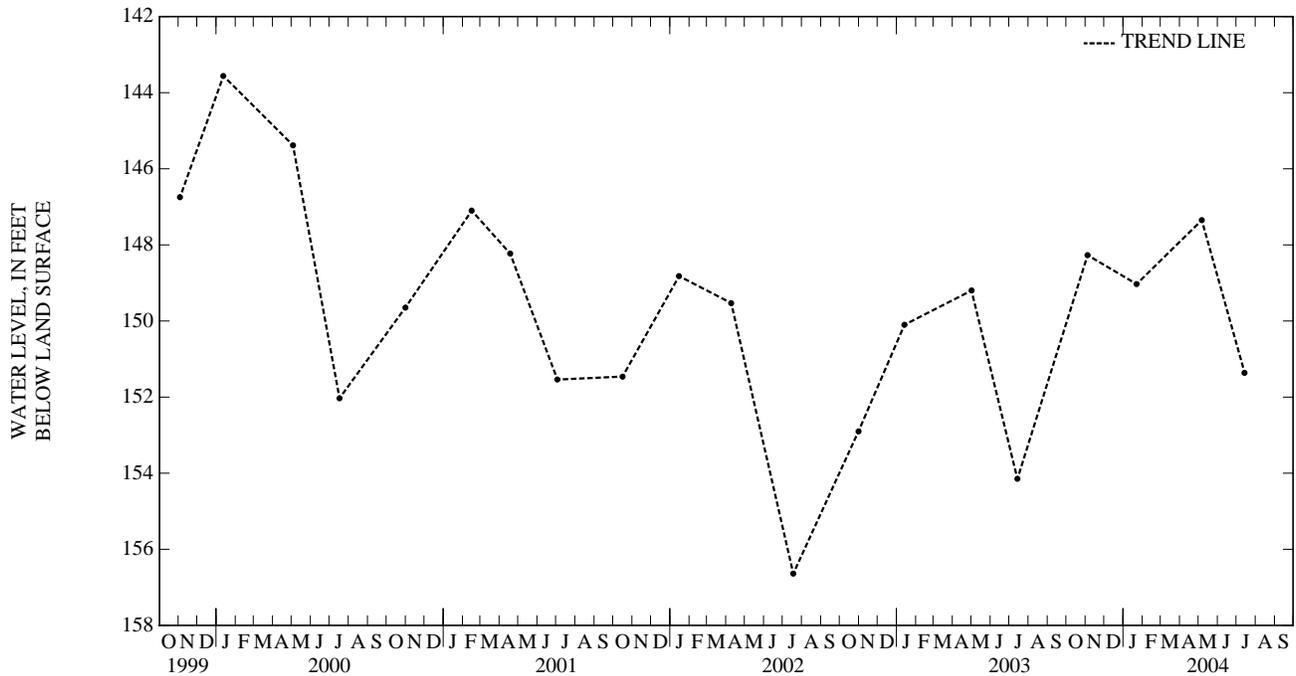
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L. Water level affected by regional drawdown.

PERIOD OF RECORD.--November 1972 to current year. Unpublished records available prior to October 1985 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 106.09 ft below land-surface datum, Nov. 22, 1972; lowest measured, 156.64 ft below land-surface datum, July 18, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	148.27	JAN 22	149.03	MAY 06	147.35	JUL 14	151.36
WATER YEAR 2004 HIGHEST 147.35		MAY 06, 2004		LOWEST 151.36		JUL 14, 2004	



371045076310702. Local number, 58F 62 SOW 187A.

LOCATION.--Lat 37°10'46", long 76°31'06", NAD83, Hydrologic Unit 02080206, 300 ft north of State Highway 105, 1.8 mi east of intersection of State Highways 105 and 143, and 3.1 mi southeast of Lee Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Eastover-Calvert confining unit of Miocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 140 ft, screened 120 to 140 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 10, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.5 ft above land-surface datum.

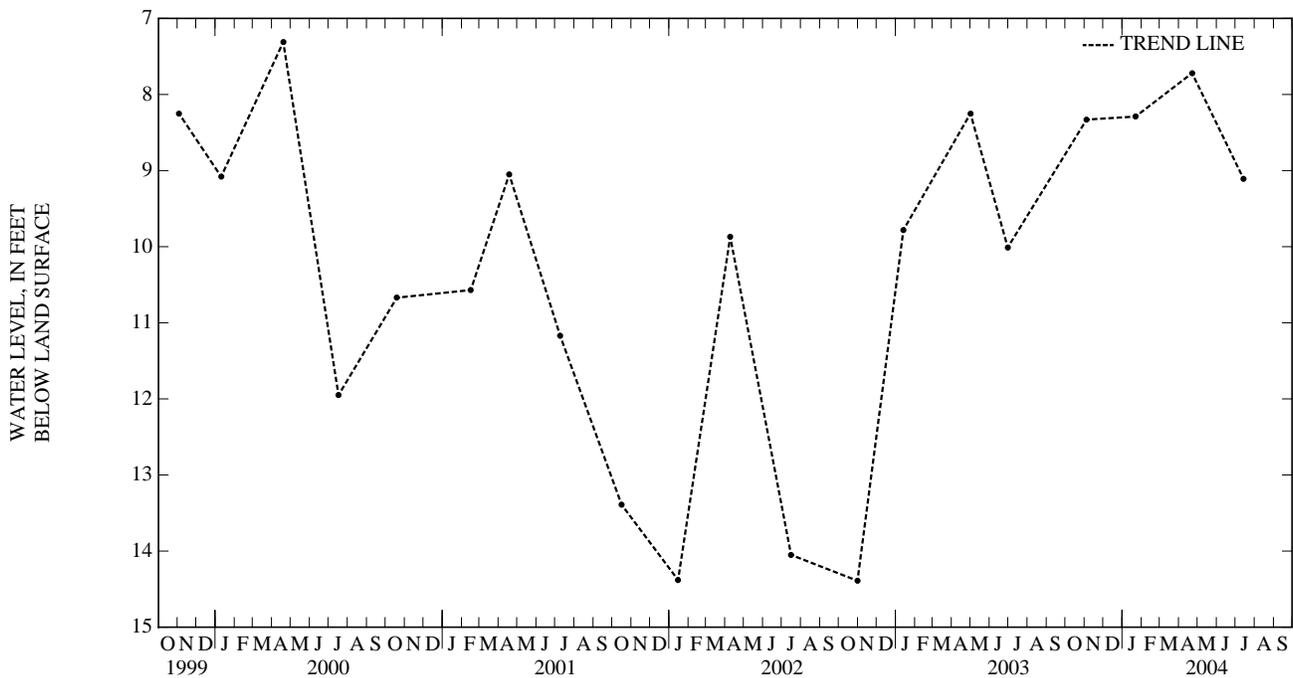
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.08 ft below land-surface datum, Apr. 6, 1994; lowest measured, 14.83 ft below land-surface datum, Nov. 6, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	8.33	JAN 22	8.29	APR 22	7.72	JUL 14	9.11
WATER YEAR 2004 HIGHEST		7.72	APR 22, 2004 LOWEST		9.11	JUL 14, 2004	



GROUND-WATER LEVELS
YORK COUNTY—Continued

371045076310703. Local number, 58F 63 SOW 187B.

LOCATION.--Lat 37°10'46", long 76°31'06", NAD83, Hydrologic Unit 02080206, 300 ft north of State Highway 105, 1.8 mi east of intersection of State Highways 105 and 143, and 3.1 mi southeast of Lee Hall. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Cornwallis Cave aquifer of Pliocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 28 ft, screened 18 to 28 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 10, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

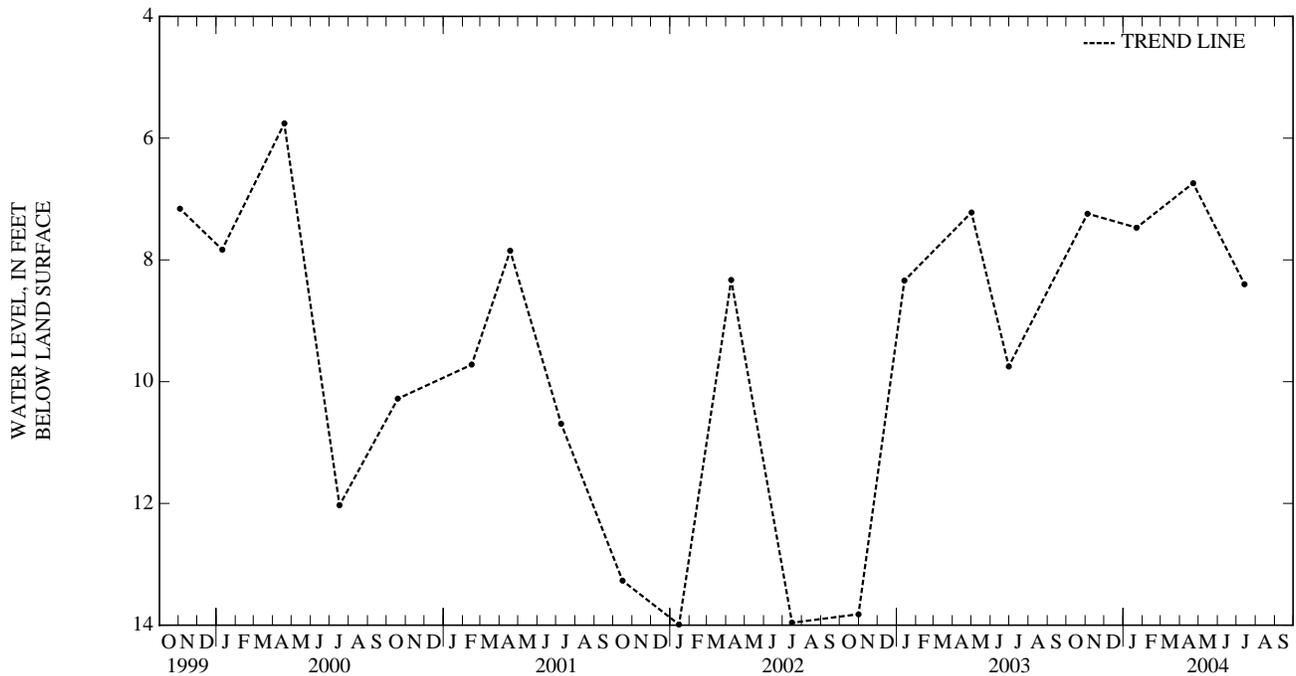
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.76 ft below land-surface datum, Apr. 19, 2000; lowest measured, 14.95 ft below land-surface datum, Jan. 18, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	7.24	JAN 22	7.47	APR 22	6.74	JUL 14	8.40
WATER YEAR 2004 HIGHEST		6.74	APR 22, 2004 LOWEST		8.40	JUL 14, 2004	



GROUND-WATER LEVELS
 YORK COUNTY—Continued

371250076300502. Local number, 58F 65 SOW 191A.

LOCATION.--Lat 37°12'51", long 76°30'04", NAD83, Hydrologic Unit 02080107, 300 ft east of State Highway 704, 1.2 mi north of intersection of State Highway 704 and U.S. Highway 17, and 1.5 mi south of Yorktown. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 110 ft, screened 90 to 110 ft.

INSTRUMENTATION.--Occasional measurement with chalked taped by Virginia Department of Environmental Quality - Water Division personnel. May 7, 1991 to Oct. 17, 1995, continuous strip-chart recorder since May 7, 1991. Occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 55 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.8 ft above land-surface datum prior to May 7, 1991; 1.70 ft thereafter.

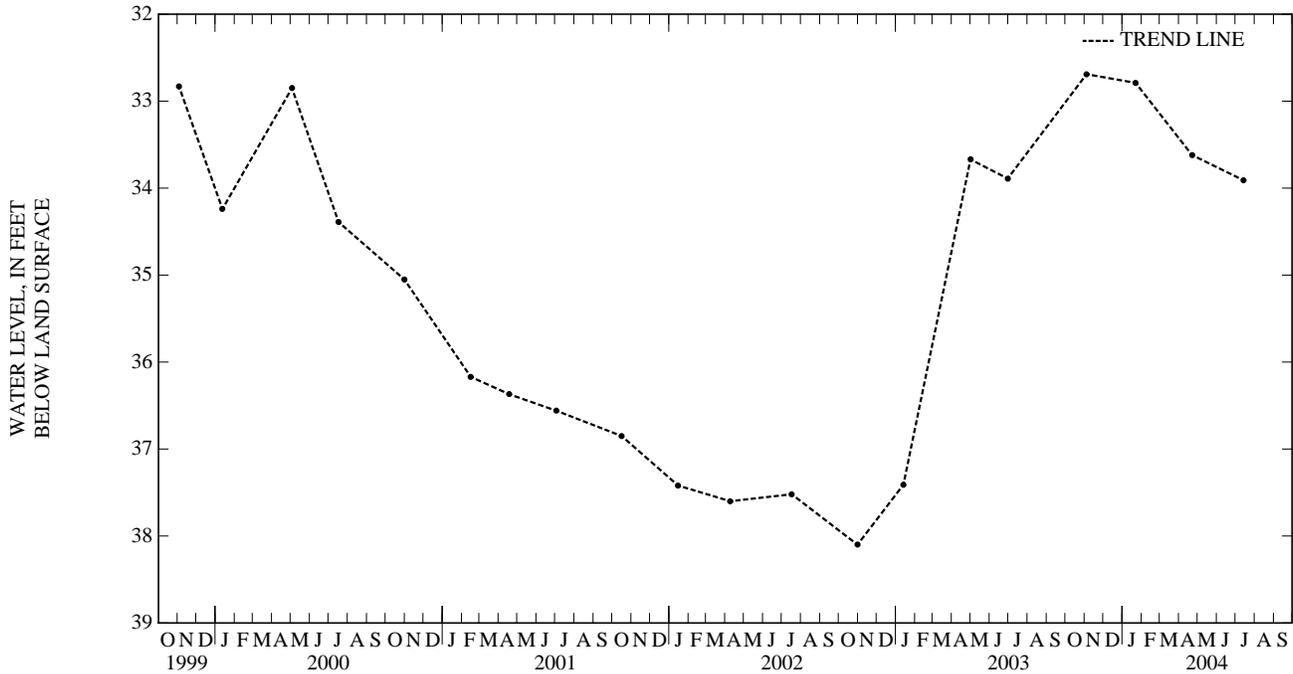
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--November 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.47 ft below land-surface datum, Apr. 16, 1998; lowest recorded, 38.38 ft below land-surface datum, Mar. 13, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	32.69	JAN 22	32.79	APR 22	33.62	JUL 14	33.91
WATER YEAR 2004 HIGHEST 32.69		NOV 04, 2003		LOWEST 33.91		JUL 14, 2004	



GROUND-WATER LEVELS
YORK COUNTY—Continued

371535076373501. Local number, 59F 1 SOW 027.

LOCATION.--Lat 37°13'05", long 76°29'18", NAD83, Hydrologic Unit 02080107, at U.S. Naval Supply Center, 1.6 mi southeast of Yorktown. Owner: U.S. Naval Supply Center.

AQUIFER.--Chickahominy-Piney Point aquifer of Eocene-Oligocene age.

WELL CHARACTERISTICS.--Drilled unused water well, diameter 10 in., depth 446 ft, screened 421 to 446 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Oct. 11, 1985, to July 7, 1995, bimonthly measurement with chalked tape. Sept. 10, 1971, to Oct. 10, 1985, occasional measurement with chalked tape. Apr. 10, 1970, to Sept. 10, 1971, continuous strip-chart recorder. Prior to Apr. 10, 1970, occasional measurement with chalked tape.

DATUM.--Elevation of land-surface datum is 50 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum prior to Jan. 15, 2002; 2.40 ft thereafter.

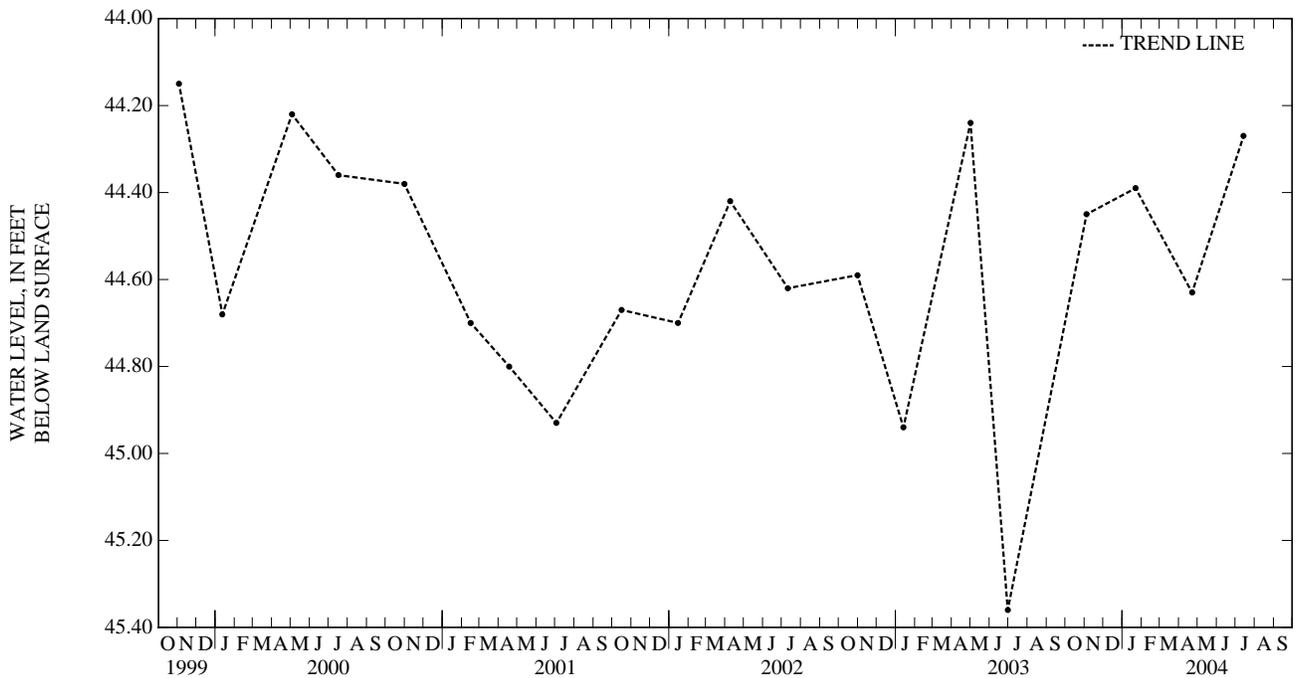
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--October 1969 to current year. Unpublished records available prior to October 1987 in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.00 ft below land-surface datum, Oct. 27, 1969; lowest measured, 45.36 ft below land-surface datum, June 30, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	44.45	JAN 22	44.39	APR 22	44.63	JUL 14	44.27
WATER YEAR 2004 HIGHEST		44.27	JUL 14, 2004		LOWEST		44.63
						APR 22, 2004	



YORK COUNTY—Continued

370841076275202. Local number, 59F 72 SOW 184A

LOCATION.--Lat 37°08'42", long 76°27'51", NAD83, Hydrologic Unit 02080108, 800 ft south of State Highway 620, 0.4 mi southwest of intersection of State Highway 620 and U.S. Highway 17, and 2.2 mi southwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 98 ft, diameter 3.5 in. from 98 to 131 ft, depth 131 ft, screened 121 to 131 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 12, 1991, to July 7, 1995, bimonthly measurement with chalked tape. Prior to Sept. 12, 1991, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 42 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 2.8 ft above land-surface datum prior to Nov. 6, 1991; top of casing, 1.80 ft thereafter.

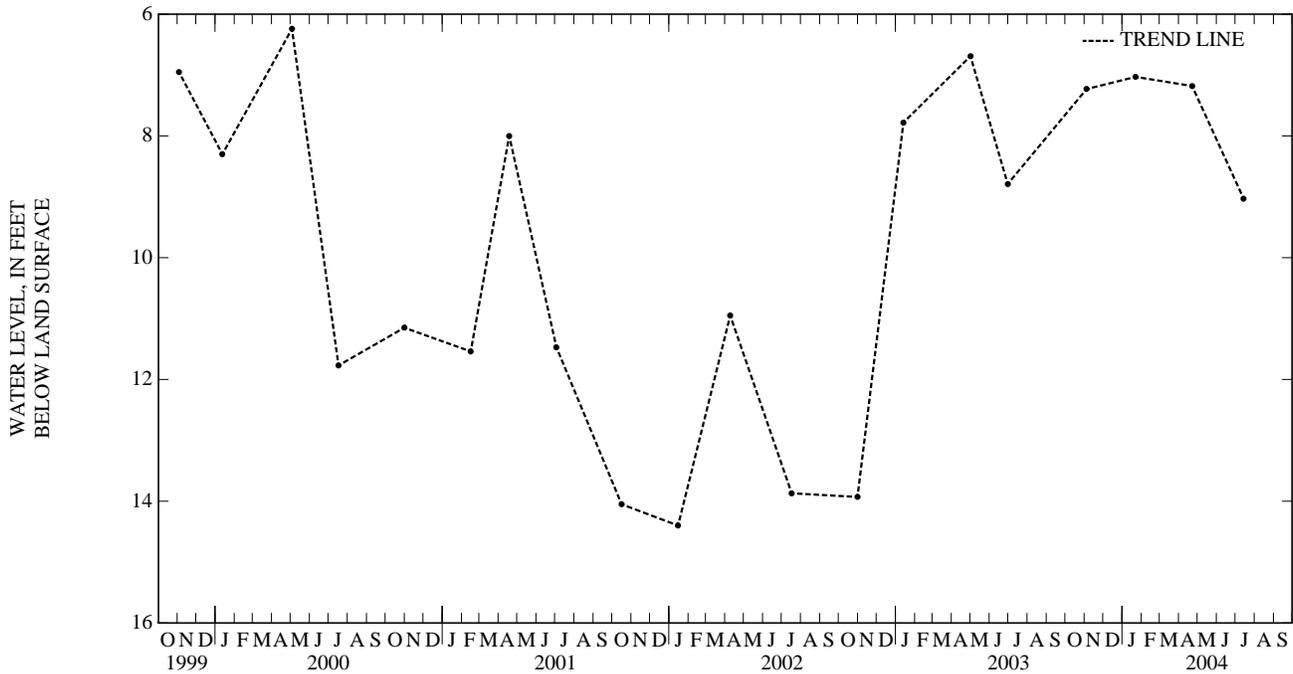
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.46 ft below land-surface datum, Apr. 29, 1997; lowest recorded, 14.40 ft below land-surface datum, Jan. 15, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	7.23	JAN 22	7.03	APR 22	7.18	JUL 14	9.03
WATER YEAR 2004 HIGHEST		7.03	JAN 22, 2004 LOWEST		9.03	JUL 14, 2004	



GROUND-WATER LEVELS
YORK COUNTY—Continued

370841076275203. Local number, 59F 73 SOW 184B.

LOCATION.--Lat 37°08'42", long 76°27'51", NAD83, Hydrologic Unit 02080108, 800 ft south of State Highway 620, 0.4 mi southwest of intersection of State Highway 620 and U.S. Highway 17, and 2.2 mi southwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Cornwallis Cave aquifer of Pliocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in. to 39 ft, diameter 2.0 in. from 39 to 60 ft, depth 60 ft, screened 50 to 60 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 42 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.7 ft above land-surface datum.

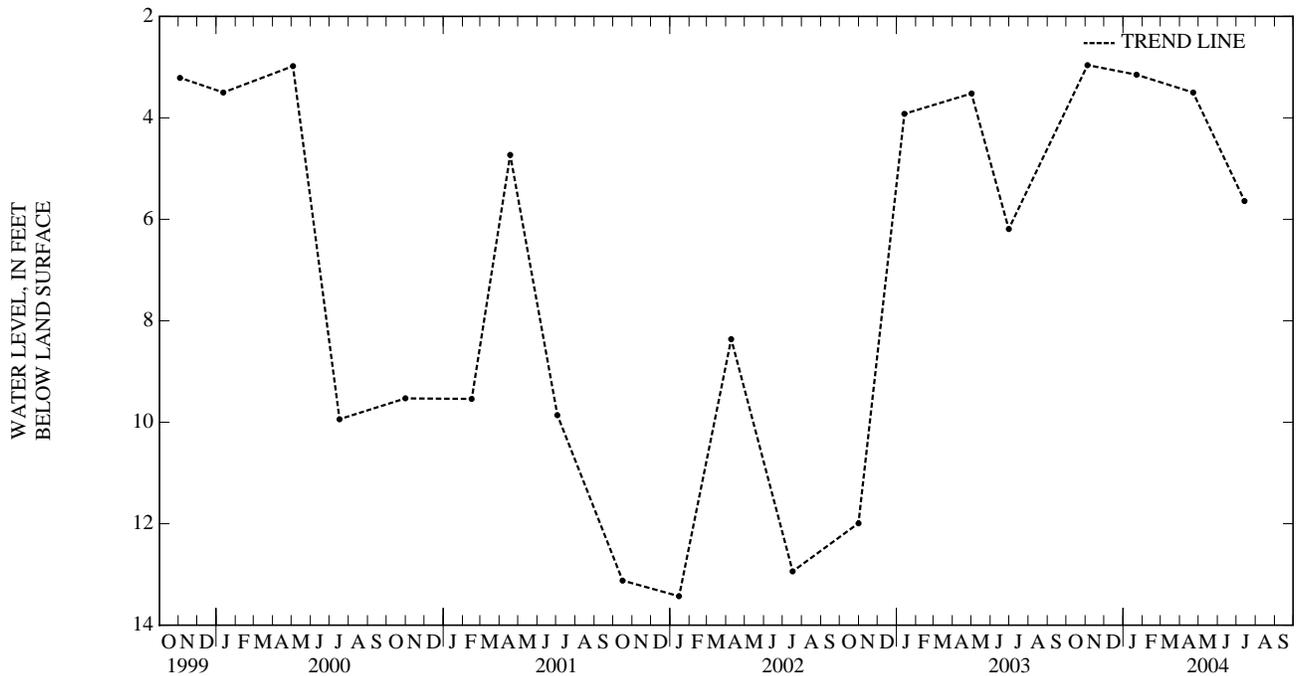
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.03 ft below land-surface datum, Feb. 15, 1994; lowest measured, 13.43 ft below land-surface datum, Jan. 15, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	2.96	JAN 22	3.15	APR 22	3.50	JUL 14	5.64
WATER YEAR 2004 HIGHEST		2.96	NOV 04, 2003		LOWEST		5.64
						JUL 14, 2004	



YORK COUNTY—Continued

370841076275204. Local number, 59F 74 SOW 184C.

LOCATION.--Lat 37°08'42", long 76°27'51", NAD83, Hydrologic Unit 02080108, 800 ft south of State Highway 620, 0.4 mi southwest of intersection of State Highway 620 and U.S. Highway 17, and 2.2 mi southwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 20 ft, screened 10 to 20 ft.

INSTRUMENTATION.--Electronic data logger and pressure transducer, 15-minute record interval. July 7, 1995 to Mar. 11, 2004, occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 12, 1991, to July 7, 1995, bimonthly measurement with chalked tape. Prior to Sept. 12, 1991, digital recorder, 60-minute punch.

DATUM.--Elevation of land-surface datum is 42 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder shelf, 2.8 ft above land-surface datum prior to Nov. 6, 1991; top of casing, 1.80 ft above land-surface datum, Nov. 6, 1991 to Mar. 11, 2004; top of recorder shelf, 1.92 ft thereafter.

REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--July 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.58 ft below land-surface datum, Aug. 16, 2004; lowest measured, 14.08 ft below land-surface datum, Jan. 15, 2002.

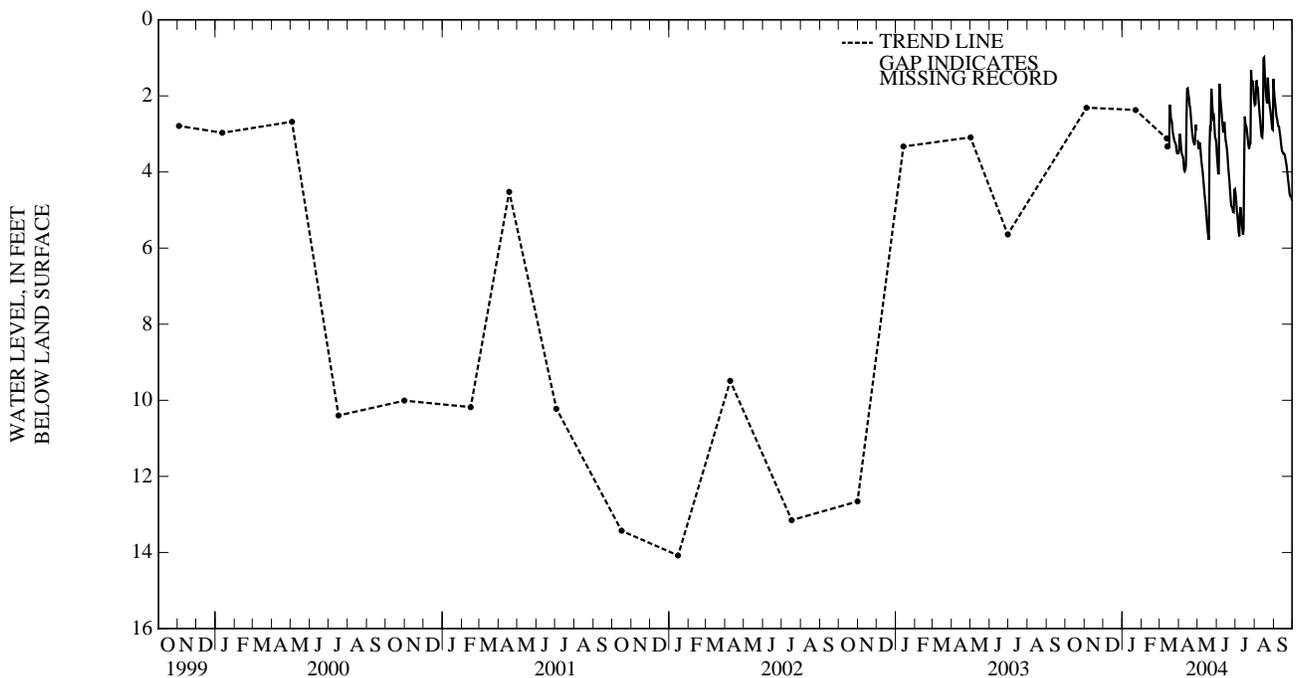
EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 0.58 ft below land-surface datum, Aug. 16; lowest instantaneous water level, 5.78 ft below land-surface datum, May 19.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	3.49	3.30	1.68	5.36	1.79	2.55
10	---	---	---	---	---	---	3.98	4.19	2.76	5.12	2.71	2.94
15	---	---	---	---	---	3.34	1.80	5.15	3.17	3.51	1.01	3.48
20	---	---	---	---	---	2.64	2.55	3.37	4.03	3.03	2.12	3.72
25	---	---	---	---	---	3.21	3.24	2.37	4.92	3.25	2.26	4.39
EOM	---	---	---	---	---	3.51	---	3.25	4.45	2.13	1.55	4.76

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	2.31	JAN 22	2.37	APR 22	2.83	JUL 14	5.37
WATER YEAR 2004 HIGHEST 2.31		NOV 04, 2003		LOWEST 5.37		JUL 14, 2004	



GROUND-WATER LEVELS
YORK COUNTY—Continued

370958076291502. Local number, 59F 81 SOW 186A.

LOCATION.--Lat 37°09'59", long 76°29'14", NAD83, Hydrologic Unit 02080108, 100 ft south of State Highway 173, 0.8 mi southwest of intersection of U.S. Highway 17 and State Highway 173, and 2.8 mi west of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 132 ft, screened 112 to 132 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 50.77 ft above NGVD of 1929. Measuring point: Top of casing, 1.6 ft above land-surface datum.

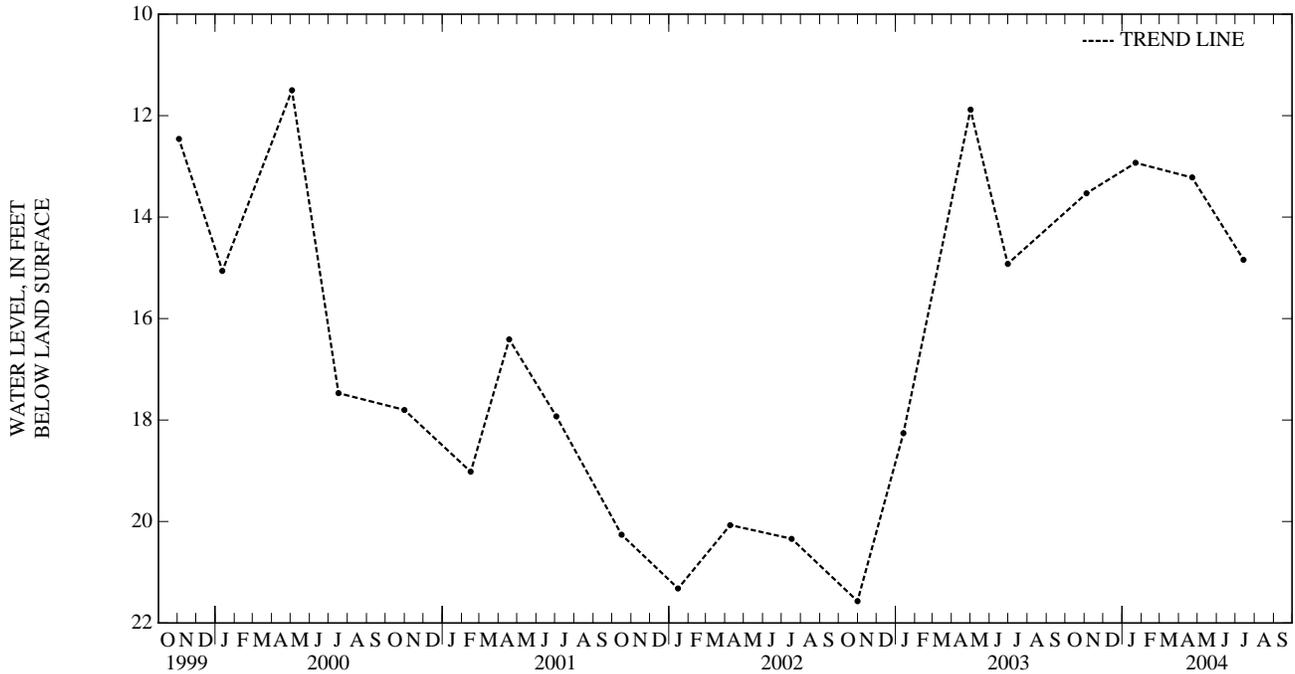
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.73 ft below land-surface datum, Apr. 6, 1994; lowest measured, 21.57 ft below land-surface datum, Oct. 31, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	13.53	JAN 22	12.93	APR 22	13.22	JUL 14	14.84
WATER YEAR 2004 HIGHEST		12.93	JAN 22, 2004 LOWEST		14.84	JUL 14, 2004	



YORK COUNTY—Continued

371207076265502. Local number, 59F 86 SOW 188A.

LOCATION.--Lat 37°12'08", long 76°26'54", NAD83, Hydrologic Unit 02080107, 200 ft north of State Highway 718, 0.3 mi east of intersection of State Highways 173 and 718, and 2.3 mi northwest of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--York County shallow aquifer system (undivided) of Miocene-Holocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 99 ft, screened 79 to 99 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 7 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

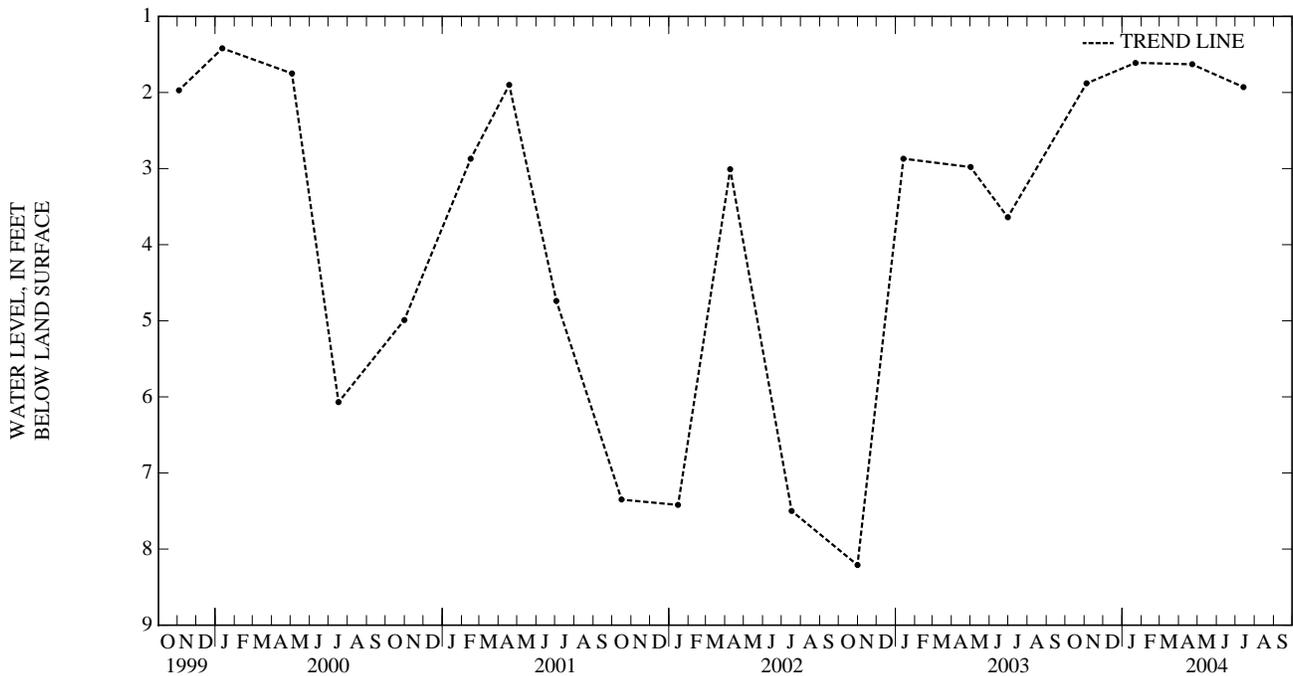
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.37 ft below land-surface datum, Feb. 15, 1994; lowest measured, 8.21 ft below land-surface datum, Oct. 31, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	1.88	JAN 22	1.61	APR 22	1.63	JUL 14	1.93
WATER YEAR 2004 HIGHEST		1.61	JAN 22, 2004 LOWEST		1.93	JUL 14, 2004	



GROUND-WATER LEVELS
YORK COUNTY—Continued

371053076252202. Local number, 59F 89 SOW 189A.

LOCATION.--Lat 37°10'54", long 76°25'21", NAD83, Hydrologic Unit 02080108, 500 ft north of State Highway 617, 0.6 mi northeast of intersection of State Highways 620 and 617, and 1.3 mi northeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Yorktown-Eastover aquifer of Miocene-Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 97 ft, screened 77 to 97 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 4.63 ft above NGVD of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

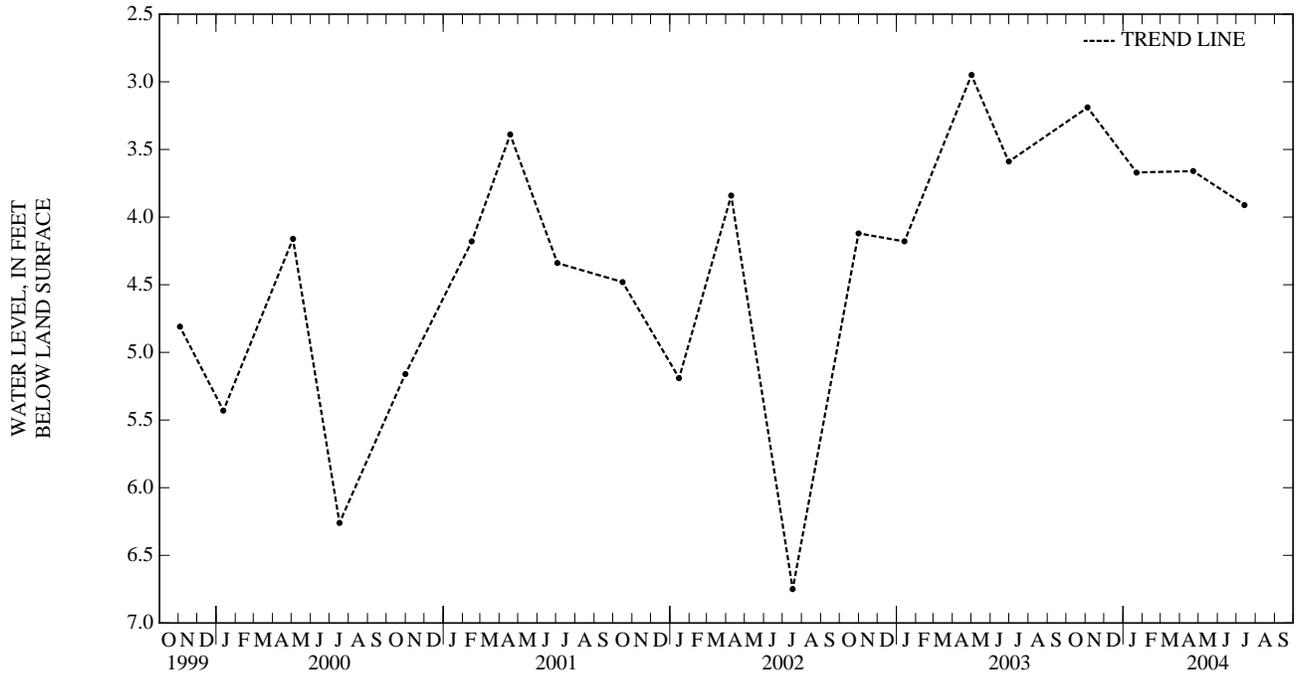
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.95 ft below land-surface datum, May 1, 2003; lowest measured, 9.11 ft below land-surface datum, May 4, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	3.19	JAN 22	3.67	APR 22	3.66	JUL 14	3.91
WATER YEAR 2004 HIGHEST		3.19	NOV 04, 2003 LOWEST		3.91	JUL 14, 2004	



GROUND-WATER LEVELS
 YORK COUNTY—Continued

371053076252203. Local number, 59F 96 SOW 189B.

LOCATION.--Lat 37°10'54", long 76°25'21", NAD83, Hydrologic Unit 02080108, 500 ft north of State Highway 617, 0.6 mi northeast of intersection of State Highways 620 and 617, and 1.3 mi northeast of Dare. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 15 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 4.77 ft above NGVD of 1929. Measuring point: Top of casing, 1.6 ft above land-surface datum.

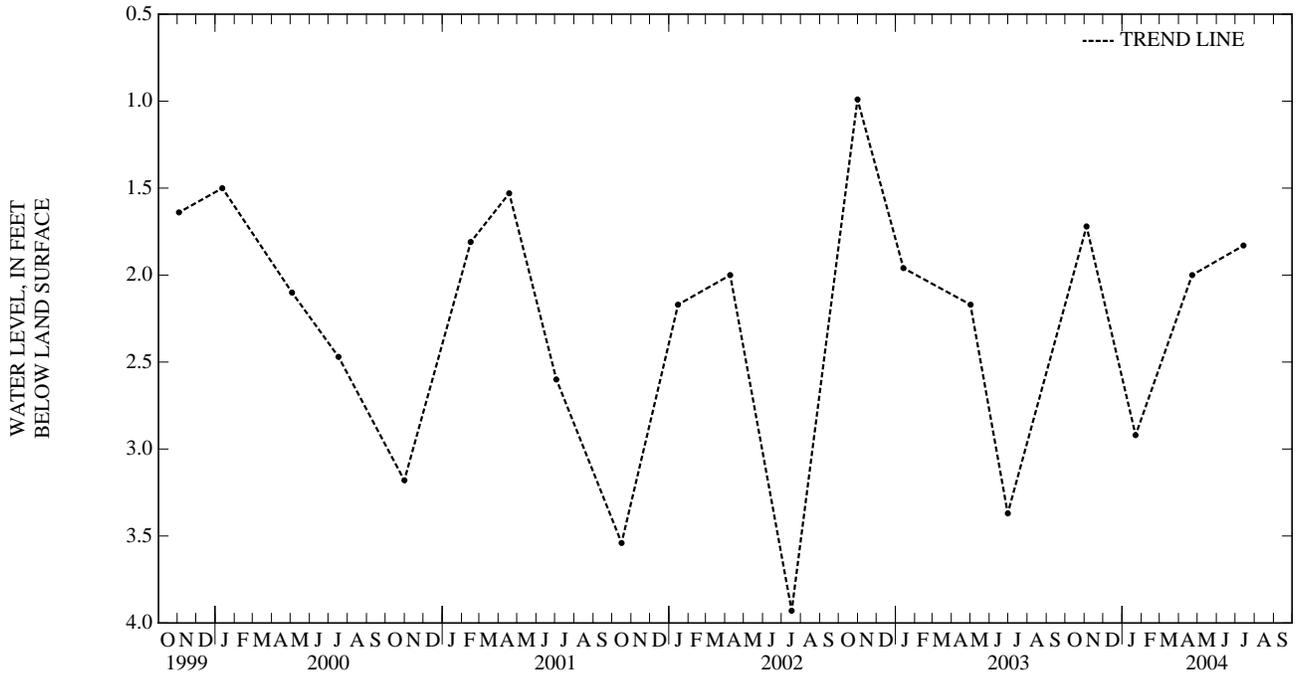
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.70 ft below land-surface datum, Apr. 29, 1997; lowest measured, 4.68 ft below land-surface datum, June 11, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	1.72	JAN 22	2.92	APR 22	2.00	JUL 14	1.83
WATER YEAR 2004 HIGHEST		1.72	NOV 04, 2003 LOWEST		2.92	JAN 22, 2004	



GROUND-WATER LEVELS
YORK COUNTY—Continued

371314076252203. Local number, 59F 99 SOW 190B.

LOCATION.--Lat 37°13'14", long 76°25'24", NAD83, Hydrologic Unit 02080107, 50 ft north of State Highway 629, 0.8 mi northeast of intersection of State Highways 173 and 629, and 1.8 mi north of Seaford. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Columbia aquifer of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4.5 in., depth 15 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Sept. 4, 1991, to July 7, 1995, bimonthly measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel. Prior to Sept. 4, 1991, occasional measurement with chalked tape by USGS and Virginia Department of Environmental Quality - Water Division personnel.

DATUM.--Elevation of land-surface datum is 3.49 ft above NGVD of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

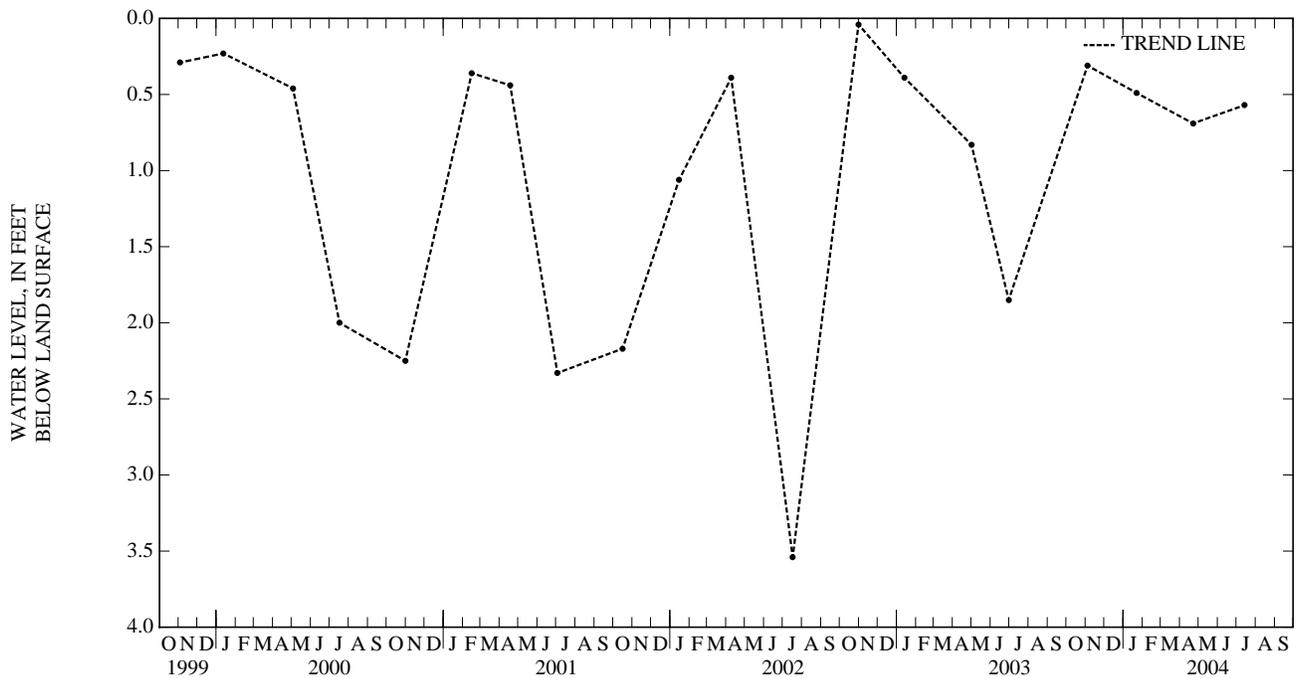
REMARKS.--Records provided by the Virginia Department of Environmental Quality - Water Division. Water from this well is known to contain concentrations of dissolved solids greater than 1,000 mg/L.

PERIOD OF RECORD.--September 1990 to current year. Unpublished records available in files of the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.04 ft below land-surface datum, Apr. 29, 1997, Feb. 15, 1994, Oct. 31, 2002; lowest measured, 3.62 ft below land-surface datum, June 11, 1991, Aug. 18, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04	.31	JAN 22	.49	APR 22	.69	JUL 14	.57
WATER YEAR 2004 HIGHEST		.31 NOV 04, 2003		LOWEST		.69 APR 22, 2004	



GROUND-WATER-QUALITY RECORDS

The following remark codes may appear with the water-quality data in this section:

PRINTED OUTPUT	REMARK
E	Estimated value.
M	Constituent was detected but not quantified.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

The following value qualifier codes may appear with the water-quality data in this section:

@	Holding time exceeded.
c	See laboratory comment.
d	Diluted sample: method hi range exceeded.
n	Below the LRL and above the LT-MDL.
o	Result determined by alternate method.
u	Unable to determine-matrix interference.

The following geologic unit codes or aquifer codes may appear with the water-quality data in this section:

CODE	GEOLOGIC UNIT/AQUIFER
000MMPS	METAMORPHOSED SEDIMENTARY ROCKS
000MPVS	METAMORPHOSED VOLCANIC AND SEDIMENTARY ROCKS
110QRNR	COLUMBIA AQUIFER
121CSPKU	YORKTOWN-EASTOVER AQUIFER
124EOCN	CHICKAHOMINY-PINEY POINT AQUIFER
125PLCN	AQUIA AQUIFER
211CRCSU	UPPER POTOMAC AQUIFER
217PPSC	MIDDLE POTOMAC AQUIFER
217PTXN	LOWER POTOMAC AQUIFER
231BLBF	BALLS BLUFF FORMATION
231MNSS	MANASSAS FORMATION
231VINT	VINTA FORMATION
231NWRK	NEWARK GROUP
324NRTN	NORTON FORMATION
324WISE	WISE FORMATION
327LEE	LEE FORMATION
330MSSP	MISSISSIPPIAN SYSTEM
331BLFD	BLUEFIELD FORMATION
340HRVL	HUNTERVILLE CHERT
341BRLR	BRALLIER FORMATION
341CMNG	CHEMUNG FORMATION
341MLBR	MILLBORO SHALE
347DVSL	DEVONIAN-SILURIAN SYSTEMS
361MRBG	MARTINSBURG SHALE
364EDBG	EDINBURG FORMATION
364EGLS	EGGLESTON FORMATION
364MCSN	MOCCASIN FORMATION
367BKMN	BEEKMANTOWN GROUP
371CCCG	CONOCOCHIEGUE FORMATION
371ELBK	ELBROOK FORMATION
377ROME	ROME FORMATION
377SHDY	SHADY FORMATION
400CTCN	CATOCTIN FORMATION
400GRGS	GRANITE GNEISS
400PCMB	PRECAMBRIAN ERATHEM

QUALITY OF GROUND WATER

DATA LISTED BY COUNTY

MULTIPLE STATION ANALYSES

Local identifier	Station number	Geologic unit	Date	Time	Sample type	Depth of well, feet below LSD (72008)	Depth to bot sample intrval feet below LSD (72016)	Depth to top sample intrval feet below LSD (72015)	Depth to water level, feet below LSD (72019)
ACCOMACK COUNTY									
66M 23 SOW 181A	375610075361801	211CRCSU	05-12-04	1610	Environmental	1,320	1,300	1,290	9.70
66M 24 SOW 181B	375610075361802	121CSPK	05-13-04	1735	Environmental	508	508	498	1.03
CLARKE COUNTY									
47XS 6	391136077560701	371CCCG	08-19-04	0945	Environmental	--	--	--	--
47XS 3	390841077524201	--	08-19-04	1140	Environmental	--	--	--	--
47WS 2	390618077583301	371ELBK	08-19-04	1255	Environmental	--	--	--	--
46XS 3	390811078011001	367BKMN	08-19-04	1425	Environmental	--	--	--	--
46XS 9	390751078050301	364EDBG	08-19-04	1600	Environmental	--	--	--	--
FREDERICK COUNTY									
44WS 1	390350078175201	367BKMN	08-20-04	1000	Environmental	--	--	--	--
46XS 10	391416078064501	367BKMN	08-24-04	0900	Environmental	--	--	--	--
45WS 2	390634078121301	364EDBG	08-24-04	1425	Environmental	--	--	--	--
46YS 1	391620078051301	367BKMN	08-25-04	1050	Environmental	--	--	--	--
JAMES CITY COUNTY									
56F 57	371449076460501	217PPSC	12-04-03	1400	Environmental	754	740	450	132.00
56GS 3	371524076480801	--	12-10-03	1045	Environmental	--	--	--	--
56F 58	371448076460901	217PTXN	03-10-04	1100	Environmental	1,190	1,170	795	135.61
56F 59	371450076460401	217PTXN	03-10-04	1340	Environmental	1,193	1,170	808	133.65
56H 29 SOW 177E	372506076511705	124EOCN	06-16-04	1205	Environmental	235	214	204	134.55
KING WILLIAM COUNTY									
55J 18	373523076523404	125PLCN	03-12-04	0930	Environmental	345	340	320	--
55J 19	373523076523405	124EOCN	03-12-04	1030	Environmental	245	240	220	--
LANCASTER COUNTY									
59K 17	373941076254802	211CRCSU	06-15-04	1130	Environmental	638	632	555	--
WARREN COUNTY									
44US 2	384700078155601	--	08-18-04	1100	Environmental	--	--	--	--
45US 3	384956078140001	--	08-18-04	1220	Environmental	--	--	--	--
45US 5	385115078084601	400CTCN	08-18-04	1515	Environmental	--	--	--	--
46VS 2	385450078064301	400CTCN	08-18-04	1715	Environmental	--	--	--	--
46VS 8	385834078005301	400CTCN	08-23-04	1300	Environmental	--	--	--	--
46VS 6	385606078050801	400CTCN	08-23-04	1630	Environmental	--	--	--	--
CITY OF SUFFOLK									
57C 21 SOW 099A	364703076383701	124EOCN	05-11-04	1520	Environmental	248	248	238	54.71
CITY OF VIRGINIA BEACH									
62A 3 SOW 097B	363537076061002	110QRNR	08-27-04	1050	Environmental	24	--	--	1.46
		110QRNR	08-27-04	1055	Replicate	24	--	--	1.46
62A 2 SOW 097A	363537076061001	110QRNR	08-27-04	1305	Environmental	76	--	--	2.92
61C 46	365212076091202	--	08-30-04	1022	Environmental	77	--	--	12.48
61C 45	365212076091201	--	08-30-04	1205	Environmental	168	--	--	13.77
61C 28 SOW 174B	364920076093202	121CSPKU	08-31-04	1022	Environmental	80	--	--	8.33
61C 27 SOW 174A	364920076093201	121CSPKU	08-31-04	1230	Environmental	175	--	--	7.25
61D 6 SOW 124	365327076080501	110QRNR	09-02-04	1120	Environmental	40	--	--	6.31
62C 24	364916076051601	--	09-02-04	1330	Environmental	135	--	--	9.74
62C 8 SOW 127	364529076031501	110QRNR	09-03-04	1040	Environmental	60	--	--	8.99

QUALITY OF GROUND WATER

DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
ACCOMACK COUNTY											
66M 23 SOW 181A	05-12-04	6	13.0	185	767	<.3	<3	7.9	6,120	29.2	24.2
66M 24 SOW 181B	05-13-04	6	2.7	505	767	1.9	22	7.1	12,100	--	18.7
CLARKE COUNTY											
47XS 6	08-19-04	531	--	--	--	6.6	--	7.0	510	--	12.3
47XS 3	08-19-04	420	--	--	--	7.2	--	7.6	420	--	12.9
47WS 2	08-19-04	441	--	--	--	6.1	--	7.0	540	--	12.3
46XS 3	08-19-04	599	--	--	--	3.7	--	6.9	577	--	12.2
46XS 9	08-19-04	591	--	--	--	2.6	--	7.0	523	--	12.7
FREDERICK COUNTY											
44WS 1	08-20-04	720	--	--	--	4.7	--	7.0	532	--	12.8
46XS 10	08-24-04	610	--	--	--	2.6	--	6.8	626	--	12.8
45WS 2	08-24-04	700	--	--	--	1.9	--	6.9	603	--	13.6
46YS 1	08-25-04	610	--	--	--	3.5	--	7.0	536	--	12.2
JAMES CITY COUNTY											
56F 57	12-04-03	55	1,760	2,809	770	<.3	<3	8.0	1,200	8.0	19.6
56GS 3	12-10-03	45	--	--	755	1.9	19	6.8	332	12.5	15.8
56F 58	03-10-04	55	1,750	1,456	762	<.3	<3	7.5	4,300	6.0	22.6
56F 59	03-10-04	55	1,750	1,616	762	.4	5	7.4	4,650	6.0	23.7
56H 29 SOW 177E	06-16-04	103	3.0	60	762	<.3	<3	7.7	285	25.2	16.9
KING WILLIAM COUNTY											
55J 18	03-12-04	90	--	--	757	.3	3	9.1	587	--	15.1
55J 19	03-12-04	90	--	--	757	6.5	66	9.0	281	--	16.1
LANCASTER COUNTY											
59K 17	06-15-04	15	175	30	764	<.3	<3	8.6	782	23.0	21.0
WARREN COUNTY											
44US 2	08-18-04	1,305	--	--	--	4.1	--	6.0	88	--	16.8
45US 3	08-18-04	829	--	--	--	3.8	--	6.0	82	--	13.5
45US 5	08-18-04	1,889	--	--	--	7.9	--	5.8	187	--	11.4
46VS 2	08-18-04	803	--	--	--	4.8	--	6.4	95	--	12.1
46VS 8	08-23-04	1,761	--	--	--	8.4	--	6.2	55	--	10.0
46VS 6	08-23-04	893	--	--	--	6.2	--	6.2	227	--	16.3
CITY OF SUFFOLK											
57C 21 SOW 099A	05-11-04	72	1.2	265	765	M	<3	8.3	471	29.6	18.9
CITY OF VIRGINIA BEACH											
62A 3 SOW 097B	08-27-04	10	--	39	760	<.3	<3	7.1	268	--	16.1
	08-27-04	10	--	39	--	--	--	--	--	--	--
62A 2 SOW 097A	08-27-04	10	--	45	760	<.3	<3	7.6	576	--	16.9
61C 46	08-30-04	20	--	32	755	<.3	<3	7.3	377	--	18.1
61C 45	08-30-04	20	--	63	755	<.3	<3	7.3	570	--	17.7
61C 28 SOW 174B	08-31-04	15	--	30	760	.4	5	7.6	970	--	17.5
61C 27 SOW 174A	08-31-04	15	--	43	760	2.4	25	7.3	7,500	--	17.9
61D 6 SOW 124	09-02-04	25	--	47	760	.6	6	5.3	260	--	19.7
62C 24	09-02-04	10	--	35	760	M	<3	7.1	2,030	--	17.1
62C 8 SOW 127	09-03-04	15	--	55	760	.5	5	5.4	135	--	19.3

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
ACCOMACK COUNTY											
66M 23 SOW 181A	05-12-04	8.89d	8.76d	29.5d	1310d	857	1,040	4	5.90d	1540d	1.6
66M 24 SOW 181B	05-13-04	49.5d	67.2d	65.5d	2590d	841	E1,020	E4	13.7d	3770d	.4
CLARKE COUNTY											
47XS 6	08-19-04	--	--	--	--	266	324	<1	--	--	--
47XS 3	08-19-04	--	--	--	--	230	281	--	--	--	--
47WS 2	08-19-04	--	--	--	--	281	343	<1	--	--	--
46XS 3	08-19-04	--	--	--	--	317	386	--	--	--	--
46XS 9	08-19-04	--	--	--	--	301	367	<1	--	--	--
FREDERICK COUNTY											
44WS 1	08-20-04	--	--	--	--	292	356	<1	--	--	--
46XS 10	08-24-04	--	--	--	--	322	392	<1	--	--	--
45WS 2	08-24-04	--	--	--	--	256	E312	<1	--	--	--
46YS 1	08-25-04	--	--	--	--	304	371	<1	--	--	--
JAMES CITY COUNTY											
56F 57	12-04-03	2.26	.585	6.56	260	310	E376	<1	.73d	179	2.5
56GS 3	12-10-03	75.6	1.13	.91	3.68	154	190	<1	.04	7.91	<.2
56F 58	03-10-04	21.3d	4.75d	12.9d	922d	338	E412	<1	4.44d	1160d	1.2
56F 59	03-10-04	23.5d	5.38d	13.8d	1000d	322	E392	<1	5.42d	1300d	1.3
56H 29 SOW 177E	06-16-04	47.3	3.10	4.58	8.57	140	E170	<1	.02	3.53	.2
KING WILLIAM COUNTY											
55J 18	03-12-04	1.81	.477	6.03	151	308	348	13	.03	2.29	2.0
55J 19	03-12-04	4.41	1.22	10.5	61.8	146	E173	E2	.03	2.34	.8
LANCASTER COUNTY											
59K 17	06-15-04	.70	.286	4.61	189	388	458	7	.04	7.68	2.9d
WARREN COUNTY											
44US 2	08-18-04	--	--	--	--	37	45	--	--	--	--
45US 3	08-18-04	--	--	--	--	17	21	--	--	--	--
45US 5	08-18-04	--	--	--	--	20	24	--	--	--	--
46VS 2	08-18-04	--	--	--	--	38	46	--	--	--	--
46VS 8	08-23-04	--	--	--	--	22	27	--	--	--	--
46VS 6	08-23-04	--	--	--	--	81	99	--	--	--	--
CITY OF SUFFOLK											
57C 21 SOW 099A	05-11-04	5.93	4.73	16.0	95.3	256	E312	<1	.03	1.91	2.0
CITY OF VIRGINIA BEACH											
62A 3 SOW 097B	08-27-04	29.1	6.61	1.87	10.1	62	75	<1	.10	18.5	<.2
	08-27-04	28.2	6.40	1.81	9.75	--	--	--	.08	17.6	<.2
62A 2 SOW 097A	08-27-04	45.2	19.7	18.2	29.8	177	216	<1	.14	58.9	.5
61C 46	08-30-04	55.3c	5.62c	2.99c	12.7c	148	180	<1	.62d	15.0	.3
61C 45	08-30-04	62.6	5.67	2.56	38.6	162	198	<1	.26	67.3	<.2
61C 28 SOW 174B	08-31-04	37.3	18.3	17.6	124	203	247	<1	.05	171	.2
61C 27 SOW 174A	08-31-04	45.1d	67.4d	50.5d	1440d	554	674	<1	7.48d	2100d	.5
61D 6 SOW 124	09-02-04	9.30	8.51	1.47	22.9	12	14	<1	.06	32.0	<.2
62C 24	09-02-04	56.5d	64.8d	31.6d	275d	414	504	<1	1.38d	480d	<.2
62C 8 SOW 127	09-03-04	9.86	3.27	3.19	9.34	16	19	<1	.09	14.0	<.2

DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, unfltrd field, mg/L (99119)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)
ACCOMACK COUNTY											
66M 23 SOW 181A	05-12-04	13.8d	<1.8d	M	3,370	--	--	--	--	--	--
66M 24 SOW 181B	05-13-04	41.2d	22.3d	--	7,130	--	--	--	--	--	--
CLARKE COUNTY											
47XS 6	08-19-04	--	--	--	--	--	--	--	--	--	--
47XS 3	08-19-04	--	--	--	--	--	--	--	--	--	--
47WS 2	08-19-04	--	--	--	--	--	--	--	--	--	--
46XS 3	08-19-04	--	--	--	--	--	--	--	--	--	--
46XS 9	08-19-04	--	--	--	--	--	--	--	--	--	--
FREDERICK COUNTY											
44WS 1	08-20-04	--	--	--	--	--	--	--	--	--	--
46XS 10	08-24-04	--	--	--	--	--	--	--	--	--	--
45WS 2	08-24-04	--	--	--	--	--	--	--	--	--	--
46YS 1	08-25-04	--	--	--	--	--	--	--	--	--	--
JAMES CITY COUNTY											
56F 57	12-04-03	35.8	22.5	<.005	711	--	--	--	--	--	--
56GS 3	12-10-03	14.5	9.7	--	202	E.07n	E.005n	1.05d	E.001n	.192	.21oc
56F 58	03-10-04	30.1d	91.2d	M	2,470	--	--	--	--	--	--
56F 59	03-10-04	24.0d	96.9d	<.005	2,670	--	--	--	--	--	--
56H 29 SOW 177E	06-16-04	58.1	5.9	M	219	--	--	--	--	--	--
KING WILLIAM COUNTY											
55J 18	03-12-04	12.3	6.1	M	377	--	--	--	--	--	--
55J 19	03-12-04	23.7	4.8	M	200	--	--	--	--	--	--
LANCASTER COUNTY											
59K 17	06-15-04	13.0	28.1	M	480	--	--	--	--	--	--
WARREN COUNTY											
44US 2	08-18-04	--	--	--	--	--	--	--	--	--	--
45US 3	08-18-04	--	--	--	--	--	--	--	--	--	--
45US 5	08-18-04	--	--	--	--	--	--	--	--	--	--
46VS 2	08-18-04	--	--	--	--	--	--	--	--	--	--
46VS 8	08-23-04	--	--	--	--	--	--	--	--	--	--
46VS 6	08-23-04	--	--	--	--	--	--	--	--	--	--
CITY OF SUFFOLK											
57C 21 SOW 099A	05-11-04	12.5	1.0	M	297	--	--	--	--	--	--
CITY OF VIRGINIA BEACH											
62A 3 SOW 097B	08-27-04	31.5	27.2	--	170	--	--	--	--	--	--
	08-27-04	31.3	27.6	--	174	--	--	--	--	--	--
62A 2 SOW 097A	08-27-04	39.9	<.2	--	336	--	--	--	--	--	--
61C 46	08-30-04	33.9c	.2	--	243	--	--	--	--	--	--
61C 45	08-30-04	37.5	2.6	--	346	--	--	--	--	--	--
61C 28 SOW 174B	08-31-04	44.2	.2	--	559	--	--	--	--	--	--
61C 27 SOW 174A	08-31-04	40.5d	93.4d	--	4,220	--	--	--	--	--	--
61D 6 SOW 124	09-02-04	13.2	38.4	--	155	--	--	--	--	--	--
62C 24	09-02-04	44.7d	1.0d	--	1,250	--	--	--	--	--	--
62C 8 SOW 127	09-03-04	15.4	23.9	--	107	--	--	--	--	--	--

QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Tritium 2-sigma water unfltrd pCi/L (75985)	Tritium water unfltrd pCi/L (07000)
ACCOMACK COUNTY					
66M 23 SOW 181A	05-12-04	331d	5.5d	--	--
66M 24 SOW 181B	05-13-04	583d	E7.9nd	--	--
CLARKE COUNTY					
47XS 6	08-19-04	--	--	1.6	21
47XS 3	08-19-04	--	--	1.6	22
47WS 2	08-19-04	--	--	1.6	24
46XS 3	08-19-04	--	--	1.3	22
46XS 9	08-19-04	--	--	1.6	26
FREDERICK COUNTY					
44WS 1	08-20-04	--	--	1.6	23
46XS 10	08-24-04	--	--	1.6	26
45WS 2	08-24-04	--	--	1.6	25
46YS 1	08-25-04	--	--	1.6	23
JAMES CITY COUNTY					
56F 57	12-04-03	8	5.8	--	--
56GS 3	12-10-03	29	E.5n	--	--
56F 58	03-10-04	124d	75.6d	--	--
56F 59	03-10-04	44d	77.0d	--	--
56H 29 SOW 177E	06-16-04	139	5.4	--	--
KING WILLIAM COUNTY					
55J 18	03-12-04	E3n	2.7	--	--
55J 19	03-12-04	<6	1.7	--	--
LANCASTER COUNTY					
59K 17	06-15-04	17	8.9	--	--
WARREN COUNTY					
44US 2	08-18-04	--	--	1.6	21
45US 3	08-18-04	--	--	1.3	20
45US 5	08-18-04	--	--	1.6	22
46VS 2	08-18-04	--	--	1.9	27
46VS 8	08-23-04	--	--	1.3	16
46VS 6	08-23-04	--	--	1.3	20
CITY OF SUFFOLK					
57C 21 SOW 099A	05-11-04	19	1.6	--	--
CITY OF VIRGINIA BEACH					
62A 3 SOW 097B	08-27-04	1,280	163	--	--
	08-27-04	1,270	162	--	--
62A 2 SOW 097A	08-27-04	606	36.8	--	--
61C 46	08-30-04	760	47.6c	--	--
61C 45	08-30-04	843	82.9	--	--
61C 28 SOW 174B	08-31-04	699	57.3	--	--
61C 27 SOW 174A	08-31-04	353d	14.0d	--	--
61D 6 SOW 124	09-02-04	1,050	74.8	--	--
62C 24	09-02-04	1540d	111d	--	--
62C 8 SOW 127	09-03-04	2,410	155	--	--

DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Station number	Geologic unit	Date	Time	Sample type	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow period prior to sampling, minutes (72004)
CITY OF VIRGINIA BEACH									
62B 18	364126076013401	--	09-03-04	1325	Environmental	135	5.46	13	45
62B 21	364353076005401	--	09-07-04	1045	Environmental	65	5.20	10	23
62C 12 SOW 172D	364745076004304	110QRNR	09-07-04	1310	Environmental	75	5.51	16	26
62A 5	363325076005201	--	09-08-04	1130	Environmental	88	14.64	5	53
		--	09-08-04	1135	Blank	88	14.64	5	53

CITY OF WINCHESTER

45XS 1	391047078115601	371CCCG	08-24-04	1055	Environmental	--	--	780	--
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MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)
CITY OF VIRGINIA BEACH											
62B 18	09-03-04	760	<.3	<.3	7.8	800	18.2	11.7	8.50	18.7	165
62B 21	09-07-04	760	<.3	<.3	6.9	275	17.0	32.6	6.74	1.47	10.0
62C 12 SOW 172D	09-07-04	760	<.3	<.3	7.1	298	18.0	43.9	3.96	1.24	15.0
62A 5	09-08-04	755	<.3	<.3	6.3	7,810	19.6	55.7d	39.0d	12.5d	328d
	09-08-04	--	--	--	--	--	--	.08	.010	<.16	.12

CITY OF WINCHESTER

45XS 1	08-24-04	--	4.9	--	6.9	598	12.7	--	--	--	--
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MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Iron, water, fltrd, ug/L (01046)
CITY OF VIRGINIA BEACH											
62B 18	09-03-04	234	284	<1	.40	126	.7	20.4	6.4	513d	29
62B 21	09-07-04	91	111	<1	.14	17.2	<.2	25.8	11.3	179	4,800
62C 12 SOW 172D	09-07-04	113	138	<1	.07	11.9	.2	51.5	<.2	224	1,790
62A 5	09-08-04	20	25	<1	2.59d	2890d	<.2	1.79d	<1.8d	3,930	<640d
	09-08-04	--	--	--	<.02	.21	<.2	<.04	<.2	10	155

CITY OF WINCHESTER

45XS 1	08-24-04	300	366	<1	--	--	--	--	--	--	--
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QUALITY OF GROUND WATER
DATA LISTED BY COUNTY—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Mangan- ese, water, fltrd, ug/L (01056)	Tritium 2-sigma water unfltrd pCi/L (75985)	Tritium water unfltrd pCi/L (07000)
CITY OF VIRGINIA BEACH				
62B 18	09-03-04	9.7	--	--
62B 21	09-07-04	188	--	--
62C 12 SOW 172D	09-07-04	85.5	--	--
62A 5	09-08-04	6760d	--	--
	09-08-04	1.7	--	--
CITY OF WINCHESTER				
45XS 1	08-24-04	--	1.6	23

Remark codes used in this table:

- < -- Less than
- E -- Estimated value
- M-- Presence verified, not quantified

Value qualifier codes used in this table:

- c -- See laboratory comment
- d -- Diluted sample: method hi range exceeded
- n -- Below the LRL and above the LT-MDL
- o -- Result determined by alternate method