

Water-Data Report 2011

**363319076264803 Local number 59A 77**

Northern Atlantic Coastal Plain aquifer system  
Quaternary System

Chesapeake City, VA

LOCATION.--Lat 36°33'19.4", long 76°26'48.0" referenced to North American Datum of 1983, Chesapeake City, VA, Hydrologic Unit 03010205, in Great Dismal Swamp National Wildlife Refuge.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 7.30 ft. Upper casing diameter 2.0 in; top of first opening 6.3 ft, bottom of last opening 7.3 ft. Open interval is a gravel pack extending up from the bottom of an open pipe.

DATUM.--Land-surface datum is 17.28 ft above North American Vertical Datum of 1988. Measuring point: MP IS TOC, 1.80 ft above land-surface datum, April 28, 2009, to present.

PERIOD OF RECORD.--June 2009 to June 2011 (discontinued).

GAGE.--Occasional measurement with chalked and electric tape by USGS personnel. November 2009 to January 2011, electronic data logger and pressure transducer, 30-minute record interval. Prior to November 2009, occasional measurement with chalked and electric tape by USGS personnel.

REMARKS.--Well is located in Columbia aquifer of Quaternary age. Drop in water level on Dec. 7, 2010 result of well being pumped for water quality sampling.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.56 ft above land-surface datum, Dec. 9, 2009; lowest recorded, 2.82 ft below land-surface datum, Sept. 26, 2010.

EXTREMES FOR CURRENT YEAR.--Highest water level, 0.50 ft above land surface datum, Oct. 6, 7; lowest water level, 0.64 ft below land surface datum, Dec. 11.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM  
(READINGS ABOVE LAND SURFACE INDICATED BY "+")  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

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

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 5	+.48	S	--	Mar 24	.04	S	--
Dec 9	.62	S	--	Jun 13	1.04	T	--
Jan 18	.34	S	--				

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## DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[- (minus sign), value is water level above land surface]

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	-0.35	-0.40	0.21	0.18	0.56	0.54	0.58	0.52	---	---	---	---
2	-0.38	-0.40	0.21	0.21	0.57	0.56	0.52	0.44	---	---	---	---
3	-0.38	-0.46	0.21	0.21	0.57	0.56	0.45	0.44	---	---	---	---
4	-0.46	-0.47	0.21	0.19	0.58	0.57	0.46	0.45	---	---	---	---
5	-0.47	-0.48	0.22	0.19	0.58	0.57	0.47	0.46	---	---	---	---
6	-0.48	-0.50	0.24	0.22	0.59	0.58	0.48	0.47	---	---	---	---
7	-0.48	-0.50	0.25	0.24	0.61	0.59	0.49	0.48	---	---	---	---
8	-0.47	-0.48	0.27	0.25	0.62	0.61	0.50	0.49	---	---	---	---
9	-0.45	-0.47	0.29	0.27	0.63	0.62	0.52	0.50	---	---	---	---
10	-0.42	-0.45	0.31	0.29	0.63	0.63	0.53	0.52	---	---	---	---
11	-0.39	-0.42	0.33	0.31	0.64	0.60	0.54	0.53	---	---	---	---
12	-0.34	-0.39	0.34	0.33	0.60	0.55	0.55	0.53	---	---	---	---
13	-0.29	-0.34	0.35	0.34	0.56	0.54	0.56	0.55	---	---	---	---
14	-0.28	-0.45	0.36	0.35	0.57	0.56	0.57	0.56	---	---	---	---
15	-0.34	-0.41	0.38	0.36	0.58	0.57	0.58	0.57	---	---	---	---
16	-0.28	-0.34	0.39	0.38	0.58	0.54	0.59	0.57	---	---	---	---
17	-0.24	-0.28	0.42	0.38	0.54	0.53	0.60	0.49	---	---	---	---
18	-0.19	-0.24	0.44	0.42	0.54	0.53	---	---	---	---	---	---
19	-0.15	-0.19	0.45	0.44	0.53	0.51	---	---	---	---	---	---
20	-0.11	-0.15	0.46	0.45	0.52	0.51	---	---	---	---	---	---
21	-0.06	-0.11	0.47	0.46	0.54	0.52	---	---	---	---	---	---
22	-0.01	-0.06	0.47	0.46	0.54	0.53	---	---	---	---	---	---
23	0.02	-0.01	0.50	0.46	0.55	0.54	---	---	---	---	---	---
24	0.06	0.02	0.51	0.50	0.56	0.55	---	---	---	---	---	---
25	0.09	0.06	0.51	0.51	0.56	0.56	---	---	---	---	---	---
26	0.09	0.06	0.52	0.51	0.57	0.55	---	---	---	---	---	---
27	0.13	0.09	0.54	0.52	0.58	0.57	---	---	---	---	---	---
28	0.14	0.08	0.55	0.54	0.59	0.58	---	---	---	---	---	---
29	0.13	0.08	0.55	0.55	0.59	0.58	---	---	---	---	---	---
30	0.15	0.13	0.56	0.55	0.59	0.59	---	---	---	---	---	---
31	0.18	0.15	---	---	0.60	0.58	---	---	---	---	---	---
Month	0.18	-0.50	0.56	0.18	0.64	0.51	---	---	---	---	---	---

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**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
 [- (minus sign), value is water level above land surface]

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Month</b>	---	---	---	---	---	---	---	---	---	---	---	---

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