



Water-Data Report 2006

382549076260101 Local number CA Ed 52

Northern Atlantic Coastal Plain aquifer system
 Aquia Formation
 Calvert County, MD

LOCATION.--Lat 38°25'49", long 76°26'01" referenced to North American Datum of 1927, Calvert County, MD, Hydrologic Unit 02060004, Rt 2 & 4, 4.3 mi. southeast of St. Leonard.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 590 ft. Upper casing diameter 4.5 in; top of first opening 565 ft, bottom of last opening 580 ft. Drilled, observation, artesian well.

DATUM.--Land-surface datum is 10 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder platform, 1.40 ft above land-surface datum, April 27, 1995, to present.

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

GAGE.--Water-level measurements by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recorder interval from April 1995 to curent year.

REMARKS.--Southern Maryland Ground-Water-Level Monitoring Network observation well. Water levels are affected by local and regional ground-water withdrawal.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.66 ft below sea level, May 21, 1995 (recorder); lowest measured, 114.00 ft below sea level, February 5 and 14, 2004 (recorder).

**WATER SURFACE ELEVATION IN FEET NGVD 1929
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Measurement method: 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 10	-99.59	T	--	Apr 28	-110.23	T	--
Dec 22	-104.26	T	--	Jul 7	-104.91	T	--
Feb 16	-108.37	T	--	Sep 27	-103.63	T	--

Water year 2006; lowest: -110.23 Apr 28, 2006 highest: -99.59 Oct 10, 2005

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ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	-100.0	-101.0	-98.6	-99.8	-99.6	-100.4	-104.2	-105.3	-106.7	-108.4	-106.6	-108.4
2	-100.2	-101.4	-99.2	-100.8	-99.6	-100.3	-103.8	-104.4	-107.3	-109.0	-107.0	-108.8
3	-100.3	-101.3	-99.3	-100.6	-99.6	-100.2	-103.6	-106.2	-107.3	-109.3	-107.1	-108.7
4	-100.1	-101.1	-98.9	-99.7	-99.1	-100.2	-104.6	-105.8	-106.1	-109.0	-107.0	-108.9
5	-100.1	-102.9	-98.9	-100.0	-99.3	-100.4	-104.3	-105.4	-106.5	-108.8	-106.9	-108.5
6	-101.6	-103.9	-99.0	-100.3	-99.2	-100.3	-104.8	-105.8	-107.6	-109.7	-106.5	-108.5
7	-100.9	-102.9	-98.8	-100.2	-99.6	-100.7	-104.3	-105.5	-108.9	-110.5	-106.9	-108.5
8	-99.6	-100.9	-98.3	-99.9	-99.9	-100.9	-104.1	-105.3	-108.4	-110.4	-106.4	-108.4
9	-99.6	-100.2	-99.2	-100.6	-99.4	-100.4	-104.1	-105.8	-108.7	-110.4	-106.2	-107.8
10	-99.2	-100.5	-99.1	-100.3	-99.4	-100.3	-104.7	-105.9	-109.4	-110.6	-106.1	-108.3
11	-99.3	-100.7	-99.0	-99.9	-99.3	-99.7	-104.3	-105.6	-107.8	-111.1	-105.9	-107.4
12	-97.3	-100.4	-98.8	-99.3	-99.5	-100.9	-104.1	-105.0	-108.0	-109.2	-105.2	-106.6
13	-97.1	-99.5	-98.8	-99.8	-100.2	-101.3	-102.3	-105.1	-107.3	-108.6	-105.2	-106.8
14	-98.7	-101.3	-98.9	-100.2	-99.9	-100.8	-102.8	-103.6	-106.8	-108.0	-105.1	-106.1
15	-99.4	-100.5	-99.1	-100.1	-99.2	-100.4	-103.6	-105.4	-106.4	-108.3	-105.2	-108.4
16	-99.0	-99.6	-98.8	-99.9	-99.1	-102.1	-103.6	-104.9	-106.7	-110.1	-105.5	-107.1
17	-99.3	-100.5	-99.2	-100.4	-99.5	-100.7	-104.2	-106.0	-107.3	-109.1	-105.0	-107.1
18	-99.5	-100.5	-99.6	-100.8	-100.0	-100.5	-104.2	-105.6	-106.6	-108.7	-105.7	-107.5
19	-99.5	-100.7	-99.4	-100.6	-99.9	-101.1	-104.4	-105.5	-106.0	-107.8	-105.1	-106.5
20	-99.4	-100.7	-99.0	-99.5	-100.2	-102.2	-104.0	-105.0	-105.4	-106.5	-105.0	-106.8
21	-99.4	-100.4	-98.9	-99.9	-101.7	-104.1	-103.8	-104.8	-105.2	-107.5	-104.5	-105.8
22	-99.0	-99.9	-98.9	-99.9	-104.0	-105.0	-104.1	-105.4	-106.3	-108.0	-104.5	-106.4
23	-99.1	-99.5	-99.0	-100.1	-103.6	-105.9	-104.0	-106.3	-106.3	-108.2	-105.3	-106.5
24	-98.9	-100.2	-98.6	-99.2	-104.5	-106.0	-105.4	-107.3	-107.3	-108.4	-104.8	-106.6
25	-98.6	-99.6	-99.2	-100.4	-104.4	-105.6	-105.5	-107.6	-106.9	-109.5	-104.3	-105.4
26	-98.9	-100.1	-99.3	-99.5	-104.2	-106.2	-106.2	-108.5	-107.1	-108.8	-105.1	-106.6
27	-99.4	-100.7	-99.4	-100.5	-105.4	-107.3	-105.7	-107.3	-107.4	-108.8	-104.9	-106.7
28	-99.6	-100.4	-99.4	-100.4	-105.0	-106.2	-105.8	-107.5	-106.8	-108.5	-104.5	-106.0
29	-99.4	-99.7	-99.5	-100.5	-104.3	-106.5	-105.9	-107.6	---	---	-104.8	-106.7
30	-99.2	-100.2	-99.5	-100.5	-104.4	-105.5	-106.6	-108.2	---	---	-105.0	-106.3
31	-98.8	-99.8	---	---	-104.1	-104.8	-107.3	-108.9	---	---	-105.2	-106.6
Month	-97.1	-103.9	-98.3	-100.8	-99.1	-107.3	-102.3	-108.9	-105.2	-111.1	-104.3	-108.9

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ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Max	Min								
	April		May		June		July		August		September	
1	-104.5	-106.0	-106.5	-108.4	-103.4	-105.4	-103.5	-104.4	-104.1	-106.3	-102.3	-104.2
2	-105.5	-107.1	-105.6	-106.8	-104.4	-105.4	-103.4	-104.4	-105.0	-106.3	-102.4	-103.4
3	-105.6	-107.5	-105.0	-106.3	-104.0	-105.3	-103.9	-105.0	-104.8	-106.1	-102.5	-103.5
4	-105.1	-106.4	-105.0	-107.9	-103.7	-104.7	-103.7	-104.8	-104.7	-105.9	-102.4	-103.7
5	-105.1	-106.3	-105.8	-107.6	-103.8	-105.0	-103.7	-105.0	-104.7	-105.6	-100.0	-103.6
6	-105.2	-106.8	-104.9	-106.5	-103.3	-104.6	-103.7	-105.0	-104.7	-105.7	-98.8	-101.7
7	-105.5	-107.4	-104.6	-105.8	-103.3	-104.6	-103.9	-105.1	-104.7	-106.1	-101.4	-103.3
8	-106.7	-108.1	-104.2	-105.1	-103.3	-104.8	-103.9	-106.9	-104.8	-106.3	-101.9	-103.1
9	-105.4	-107.3	-104.0	-105.4	-103.6	-104.8	-104.8	-106.3	-104.7	-106.0	-101.6	-102.7
10	-105.2	-107.9	-104.0	-105.4	-104.6	-105.7	-103.5	-105.6	-104.6	-105.8	-101.7	-102.6
11	-106.1	-108.0	-103.2	-105.0	-104.5	-105.8	-103.9	-105.5	-104.5	-105.9	-101.6	-102.9
12	-102.9	-106.9	-103.2	-104.6	-105.2	-106.4	-101.7	-105.4	-104.5	-106.3	-100.2	-102.6
13	-104.2	-105.4	-103.2	-104.6	-105.6	-106.8	-101.5	-104.5	-105.0	-106.2	-100.8	-102.1
14	-104.3	-106.4	-103.0	-103.8	-105.4	-107.0	-103.3	-104.8	-105.0	-106.3	-101.1	-102.5
15	-105.0	-106.9	-102.9	-104.4	-104.9	-106.0	-103.5	-104.8	-104.2	-106.1	-101.4	-102.9
16	-106.6	-109.1	-103.3	-104.9	-104.8	-105.9	-103.7	-104.8	-103.5	-105.2	-101.8	-103.0
17	-107.0	-109.1	-104.4	-105.4	-105.2	-106.8	-103.9	-105.4	-103.2	-105.0	-102.1	-103.3
18	-107.3	-109.9	-103.8	-104.9	-105.0	-106.1	-104.3	-106.6	-102.8	-104.2	-102.5	-103.9
19	-108.3	-110.4	-103.7	-104.8	-104.7	-106.2	-104.9	-106.3	-103.0	-104.8	-103.3	-104.4
20	-109.0	-110.7	-103.5	-104.4	-104.8	-106.0	-105.0	-106.4	-103.9	-105.5	-102.7	-104.8
21	-109.1	-110.7	-102.8	-104.1	-104.8	-106.2	-105.2	-106.5	-104.4	-106.0	-103.3	-106.5
22	-107.7	-110.3	-103.1	-104.8	-102.5	-105.7	-105.2	-106.6	-104.7	-107.2	-102.8	-107.3
23	-107.6	-109.8	-103.6	-104.8	-101.2	-103.3	-105.3	-107.3	-105.7	-107.7	-102.7	-105.3
24	-108.4	-110.7	-103.7	-104.8	-100.3	-101.9	-105.6	-106.7	-106.0	-107.2	-102.4	-103.4
25	-109.4	-111.1	-103.6	-104.9	-99.7	-100.8	-105.2	-106.3	-106.1	-107.8	-102.4	-106.2
26	-109.6	-111.7	-103.5	-104.5	-98.2	-100.3	-105.2	-106.3	-104.6	-106.1	-104.0	-107.1
27	-109.6	-111.4	-103.4	-106.0	-99.6	-101.9	-104.9	-106.0	-103.5	-105.0	-103.3	-106.5
28	-110.0	-112.5	-104.8	-106.6	-100.8	-103.3	-104.6	-105.6	-103.1	-104.9	-103.3	-106.8
29	-108.8	-111.6	-104.5	-105.7	-102.3	-103.9	-104.2	-105.2	-104.4	-105.7	-103.1	-108.2
30	-107.3	-108.8	-104.0	-105.3	-103.8	-104.9	-103.8	-104.9	-104.5	-106.2	-104.4	-107.9
31	---	---	-103.2	-104.3	---	---	-103.8	-104.8	-103.4	-105.2	---	---
Month	-102.9	-112.5	-102.8	-108.4	-98.2	-107.0	-101.5	-107.3	-102.8	-107.8	-98.8	-108.2
Year	-97.1	-112.5										

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