



Water-Data Report 2011

385843076155302 Local number QA Eb 155

Northern Atlantic Coastal Plain aquifer system
Aquia Formation

Queen Annés County, MD

LOCATION.--Lat 38°58'43", long 76°15'53" referenced to North American Datum of 1927, Queen Annés County, MD, Hydrologic Unit 02060002, at north end of Piney Creek Rd., Kent Island.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 245 ft. Upper casing diameter 4 in; top of first opening 235 ft, bottom of last opening 245 ft. Drilled, observation, artesian well.

DATUM.--Land-surface datum is 3.90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.50 ft above land-surface datum, Oct. 1984 to present.

PERIOD OF RECORD.--October 1984, April 1985 to current year.

GAGE.--Water-level measurements by Maryland Geological Survey personnel.

REMARKS.--Kent Island Groundwater Monitoring Network observation well. Water levels are affected by local groundwater withdrawal.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 ft below land surface, December 2, 1985; lowest measured, 14.05 ft below land surface, August 27, 2002.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

[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 26	11.06	T	--	Aug 16	12.38	T	--
Apr 21	9.29	T	--	Sep 26	11.01	T	--

Water year 2011 highest: 9.29, Apr 21, 2011; lowest: 12.38, Aug 16, 2011

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Intermittent water-quality samples collected from Water Year 1984 to current year.

COOPERATION.--Samples and field data were collected by the Maryland Geological Survey.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 2

[ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Medium name	Sample type	Depth to water level, ft below land surface (72019)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Sampler type (84164)
10-26-2010	1200	Groundwater	Regular	11.06	8.3	345	16.3	Sbmrsbl pos pressure
08-16-2011	1500	Groundwater	Regular	12.38	8.4	346	16.3	--

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 2

[ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Sampling method (82398)	Chloride, water, filtered, mg/L (00940)
10-26-2010	1200	Submersible pump	3.33
08-16-2011	1500	Submersible pump	2.35