Water-Data Report 2011

01493010 UNNAMED TRIBUTARY TO CHESTER RIVER NEAR CHESTERVILLE, MD

Upper Chesapeake Basin
Chester-Sassafras Subbasin

LOCATION.--Lat 39°15'18.8", long 75°54'54.5" referenced to North American Datum of 1983, Kent County, MD, Hydrologic Unit 02060002.

DRAINAGE AREA.--1.37 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2011.

REMARKS.--This site was part of a synoptic survey in a portion of the upper Chester River Basin.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 5

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Discharge, instanta-neous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)
07-27-2011	**1700**	Surface water	Regular	762	.05	5.8	62	6.5	7.0
07-28-2011	***0600***	*QC sample - Artificial*	*Blank*	--	--	--	--	--	*E 6.3*

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 5

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Date	Sample start time	Specific conduc-tance, water, unfiltered, laboratory, µS/cm at 25 °C (90095)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera-ture, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Sampling method (82398)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Hardness, water, mg/L as $CaCO_3$ (00900)	Calcium, water, filtered, mg/L (00915)
07-27-2011	**1700**	--	116	18.6	2.5	Point sample	96	47.0	14.5
07-28-2011	***0600***	*< 5*	--	--	--	--	*< 12*	*< .09*	*< .022*

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01493010, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01493010.2011.pdf

01493010 UNNAMED TRIBUTARY TO CHESTER RIVER NEAR CHESTERVILLE, MD—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 3 of 5

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)
07-27-2011	**1700**	2.63	2.08	3.86	27	33	.0235	--	< .04
07-28-2011	***0600***	*< .008*	*< .022*	*< .06*	--	--	*< .010*	*< .06*	*< .04*

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 4 of 5

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, filtered, mg/L (00607)	Organic nitrogen, water, unfiltered, mg/L (00605)	Orthophosphate, water, filtered, mg/L (00660)
07-27-2011	**1700**	17.2	--	.0332	3.42	3.41	.00998	.03	--	.048
07-28-2011	***0600***	*< .029*	*< .09*	*< .010*	*.021*	*.021*	*< .0010*	*< .03*	*< .03*	*< .012*

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 5 of 5

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)
07-27-2011	**1700**	.0156	.0085	.0216	3.48	3.44	136	116
07-28-2011	***0600***	*< .004*	*< .0030*	*< .004*	*< .05*	*< .05*	*< 3.2*	*.21*