



Water-Data Report 2010

**01464523 BACK CREEK AT YARDVILLE, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 40°11'31", long 74°39'55" referenced to North American Datum of 1983, Hamilton Township, Mercer County, NJ, Hydrologic Unit 02040201, at bridge on Yardville-Hamilton Square Road, 0.7 mi north of Yardville, 0.6 mi downstream from Edges Brook, and 4.4 mi northwest of Allentown.

DRAINAGE AREA.--6.51 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2009 to September 2010 (discontinued).

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 3

[%, percent; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; 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)	Temperature, air, °C (00020)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)
09-09-2010	0900	QC sample - Artificial	Field Blank	--	--	--	--	--	--
09-09-2010	0930	Surface water	Regular	751	27.5	4.6	48	5.7	162

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 3

[%, percent; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; 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	Temperature, 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)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Chlorophyll a, phytoplankton, chromatographic-fluorometric method, μg/L (70953)
09-09-2010	--	--	< .10	< .040	< .04	< .008	< .008	< .14	--
09-09-2010	18.0	32	.18	.059	E .03	< .008	.014	E .21	7.8

**01464523 BACK CREEK AT YARDVILLE, NJ—Continued**

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2009 TO SEPTEMBER  
2010**

Part 3 of 3

[%, percent; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter;  $\mu\text{g}/\text{L}$ , micrograms per liter; <, less than; E, estimated]

<b>Date</b>	<b>Pheo- phytin a, phyto- plankton, <math>\mu\text{g}/\text{L}</math> (62360)</b>	<b>Organic carbon, water, filtered, <math>\text{mg}/\text{L}</math> (00681)</b>	<b>Organic carbon, water, unfiltered, <math>\text{mg}/\text{L}</math> (00680)</b>
<i>09-09-2010</i>	--	< .7	<i>E .6</i>
<b>09-09-2010</b>	E 3.7	.8	1.9