



Water-Data Report 2009

01401400 HEATHCOTE BROOK AT KINGSTON, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°22'10", long 74°36'58" referenced to North American Datum of 1983, South Brunswick Township, Middlesex County, NJ, Hydrologic Unit 02030105, at bridge on Mapleton Road, at abandoned railroad bridge, 0.3 mi south of Kingston, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--9.00 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1971-72, 1979-84, 1989, 1991-92, 1998 to current year.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft ³ /s
Nov 19, 2008	7.64
Feb 5, 2009	12.5
Jun 3, 2009	16.8
Aug 10, 2009	3.28

01401400 HEATHCOTE BROOK AT KINGSTON, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1976-82, 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 10.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. EPA, Region II, Division of Environmental Science and Assessment.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
 Part 1 of 4
 [Remark codes: <, less than; E, estimated.]

Date	Time	Medium name	Sample type	Baro-metric pressure, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Instan-taneous dis-charge, ft ³ /s (00061)
Nov								
19...	0850	Surface water	Replicate	758	--	.313	.245	7.6
19...	0850	QC sample - Surface water	Split Replicate	--	--	--	--	--
19...	0851	QC sample - Surface water	Concurrent Replicate	--	--	--	--	--
Feb								
05...	1300	Surface water	Regular	770	-4.0	.080	.060	12
Jun								
03...	1000	Surface water	Replicate	761	23.0	.273	.212	17
03...	1000	QC sample - Surface water	Split Replicate	--	--	--	--	--
03...	1001	QC sample - Surface water	Concurrent Replicate	--	--	--	--	--
Aug								
10...	1110	Surface water	Regular	760	28.3	.177	.134	3.3

01401400 HEATHCOTE BROOK AT KINGSTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

[Remark codes: <, less than; E, estimated.]

Date	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, filtrd, mg/L (00666)	Phos- phorus, water, unfiltrd, mg/L (00665)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfiltrd, mg/L (00600)	Boron, water, filtrd, μg/L (01020)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)
Nov								
19...	.05	.026	.046	1.8	1.8	--	.37	7.6
19...	--	<.050	<.050	E1.9	E2.1	40	--	9.3
19...	--	<.050	<.050	E2.0	E2.1	30	--	9.3
Feb								
05...	.04	E.004	.016	1.9	1.9	--	.32	2.6
Jun								
03...	.14	.025	.073	1.6	1.7	--	1.02	5.7
03...	--	<.050	.099	E1.5	E1.6	20	--	7.2
03...	--	<.050	.065	E1.5	E1.7	20	--	7.3
Aug								
10...	.03	.025	.037	3.2	3.2	--	.18	4.0