



Water-Data Report 2009

01405003 LAWRENCE BROOK AT RIVA AVENUE, AT MILLTOWN, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°26'55", long 74°26'46" referenced to North American Datum of 1983, Milltown Borough, Middlesex County, NJ, Hydrologic Unit 02030105, at bridge on Riva Avenue, 0.5 mi downstream from Farrington Lake, and 0.5 mi south of Milltown.

DRAINAGE AREA.--36.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2001-02, 2005-09.

GAGE.--Reference point only.

REMARKS.--Flow regulated by storage and releases from Farrington Lake, 2,200 ft upstream of site.

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

Date	Discharge, in ft³/s
Nov 5, 2008	18.6
Feb 9, 2009	46.3
May 5, 2009	183
Aug 19, 2009	15.1

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003-04, 2007, 2009.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: September 2009.

DISSOLVED OXYGEN, PERCENT OF SATURATION: September 2009.

pH: September 2009.

SPECIFIC CONDUCTANCE: September 2009.

WATER TEMPERATURE: September 2009.

REMARKS.--Cooperative Network Site Descriptor: Watershed Reconnaissance, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 9. The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+ or -). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - DISSOLVED OXYGEN: Sep 22-29 2009.

COOPERATION.--Physical measurements were collected in cooperation with the NJ Department of Environmental Protection.

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HOURLY WATER-QUALITY-MONITOR VALUES
SEPTEMBER 22, 2009 TO SEPTEMBER 29, 2009

