



Water-Data Report 2008

**01393350 WEST BRANCH ELIZABETH RIVER NEAR UNION, NJ**

ELIZABETH RIVER BASIN

LOCATION.--Lat 40°41'32", long 74°14'37" referenced to North American Datum of 1983, Union Township, Union County, NJ, Hydrologic Unit 02030104, at bridge on Vauxhall Road, 330 ft northwest from Brookfall Avenue, 0.3 mi upstream from mouth, and 1.7 mi east from Union.

DRAINAGE AREA.--2.53 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1999, 2005-08.

REMARKS.--Cooperative Network Site Descriptor: Trace Element Assessment (303d) special study site.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 2

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)
<b>Oct</b>									
02...	0930	QC - Artificial, field blank	--	--	--	--	--	--	--
02...	1000	Surface water, regular	1.5	--	2.7	28	7.6	679	18.6
<b>Jan</b>									
08...	1000	Surface water, regular	1.8	766	9.5	70	7.9	635	10.5
<b>Apr</b>									
02...	1200	Surface water, regular	13	768	9.7	88	7.8	313	8.0
<b>Jun</b>									
18...	1030	Surface water, regular	2.2	755	3.4	37	7.8	311	25.0

## 01393350 WEST BRANCH ELIZABETH RIVER NEAR UNION, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO**  
**SEPTEMBER 2008**

Part 2 of 2

[QC, quality control sample. Remark codes:  
 <, less than; E, estimated.]

Date	Temper- ature, water, deg C (00010)	Mercury water, flt'd, µg/L (71890)	Mercury water, unflt'd recover- able, µg/L (71900)
<b>Oct</b>			
<b>02...</b>	--	<.010	--
<b>02...</b>	16.5	<.010	<.010
<b>Jan</b>			
<b>08...</b>	2.8	<.010	<.010
<b>Apr</b>			
<b>02...</b>	10.8	<.010	E.010
<b>Jun</b>			
<b>18...</b>	19.6	<.010	<.010