



Water-Data Report 2009

**01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ**

RARITAN RIVER BASIN

LOCATION.--Lat 40°34'51", long 74°29'57" referenced to North American Datum of 1983, Middlesex Borough, Middlesex County, NJ, Hydrologic Unit 02030105, at bridge on State Route 28, 0.3 mi upstream from Green Brook, 0.9 mi northeast of Middlesex, and 2.4 mi west of the intersection of State Route 28 and Washington Avenue in Dunellen.

DRAINAGE AREA.--23.9 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

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

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 5, 2008	10.1
Feb 10, 2009	15.8
May 4, 2009	81.5
Aug 10, 2009	8.56

## 01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 9.

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.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 4

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

Date	Time	Medium name	Sample type	Baro- metric pres- sure, 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 <sup>3</sup> /s (00061)
<b>Nov</b>								
05...	1100	Surface water	Regular	765	6.5	.141	.106	10
<b>Feb</b>								
10...	1130	Surface water	Replicate	769	4.5	.098	.072	16
10...	1130	Surface water	Split Replicate	--	--	--	--	--
10...	1131	Surface water	Concurrent Replicate	--	--	--	--	--
<b>May</b>								
04...	1100	Surface water	Regular	763	16.0	.257	.195	81
<b>Aug</b>								
10...	0925	Surface water	Regular	760	28.0	.161	.118	8.6

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 4

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

Date	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, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Dis- solved solids, sum of consti- tuents, mg/L (70301)	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
<b>Nov</b>													
05...	10.6	98	7.4	463	11.7	3.2	274	262	160	2	46.7	10.4	3.02
<b>Feb</b>													
10...	13.0	97	7.5	1,340	3.2	7.9	710	E675	210	8	62.4	12.4	3.08
10...	--	--	--	--	--	--	720	692	200	<10	60.0	13.0	3.30
10...	--	--	--	--	--	8.3	710	729	220	<10	66.0	14.0	3.70
<b>May</b>													
04...	7.8	78	7.1	382	15.0	10	218	195	88	9	26.4	5.32	2.16
<b>Aug</b>													
10...	5.7	67	7.4	492	22.8	3.8	276	264	150	3	44.7	9.27	2.56

## 01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 4

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

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)
<b>Nov</b>													
05...	28.8	114	.2	52.2	.10	<.04	15.3	31.8	.47	--	.128	1.06	.036
<b>Feb</b>													
10...	179	96	.6	314	E.08	<.04	10.5	30.1	.46	--	.122	1.20	.011
10...	170	96	--	350	<.05	--	--	32.0	E.75	E.66	.073	1.30	<.010
10...	190	96	--	360	<.05	--	--	32.0	E.63	E.45	.077	1.30	<.010
<b>May</b>													
04...	34.4	62	1.0	64.7	.11	<.04	7.8	14.4	.61	--	.190	.59	.040
<b>Aug</b>													
10...	32.6	111	.2	63.6	.10	<.04	14.2	27.2	.42	--	.069	.81	.055

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 4

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

Date	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd, mg/L as P (00665)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Boron, water, fltrd, µg/L (01020)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
<b>Nov</b>								
05...	E.02	.043	.076	1.5	E1.5	--	.21	4.2
<b>Feb</b>								
10...	.07	.013	.054	1.7	1.7	--	.64	3.4
10...	--	<.050	<.050	E2.0	E2.0	80	--	3.7
10...	--	<.050	<.050	E1.9	E1.8	90	--	3.7
<b>May</b>								
04...	.12	.058	.127	1.2	1.3	--	.96	6.3
<b>Aug</b>								
10...	.03	.067	.099	1.2	1.3	--	.23	4.8