



Water-Data Report 2009

**01411490 GREEN BRANCH AT BROTMANVILLE, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 39°31'32", long 75°04'50" referenced to North American Datum of 1983, Pittsgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on Jesse Bridge Road, 0.3 mi north of Brotmanville, 1.3 mi downstream from Endless Branch, and 4.0 mi northwest of Vineland.

DRAINAGE AREA.--7.63 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--November 2008 to August 2009

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 17.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, 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 5

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

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units (50624)	UV absorb- ance, 280 nm, wat flt units (61726)	Dis- solved oxygen, of sat- uration 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, 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)
<b>Nov</b>													
18...	1030	762	6.9	.404	.323	7.5	63	5.7	83	8.0	.8	57	E41
<b>Feb</b>													
26...	0930	770	6.6	.166	.125	12.3	93	6.1	62	3.7	.7	38	--
<b>May</b>													
13...	0900	772	13.8	.598	.461	7.6	73	5.1	59	13.6	14	58	--
<b>Aug</b>													
20...	1000	760	26.7	.258	.207	7.1	83	5.9	54	23.3	1.1	41	E32

01411490 GREEN BRANCH AT BROTMANVILLE, NJ—Continued

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

Part 2 of 5

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

Date	Hardness, water, mg/L as CaCO3 (00900)	Suspended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	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)
Nov 18...	13	6	2.51	1.69	1.43	4.74	E5	.3	8.57	<.08	<.04	10.4	8.03
Feb 26...	11	<1	2.12	1.43	1.02	4.96	<1.7	E.2	9.10	E.05	<.04	6.5	6.82
May 13...	11	1	2.15	1.38	1.10	4.98	<1.7	.5	9.31	<.08	<.04	6.7	4.88
Aug 20...	9	1	1.62	1.11	1.06	4.39	E1.6	.5	8.12	<.08	<.04	8.5	4.14

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

Part 3 of 5

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)	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)	Barium, water, unfltrd recover-able, µg/L (01007)	Beryllium, water, unfltrd recover-able, µg/L (01012)	Cadmium water, unfltrd, µg/L (01027)	Chromium, water, unfltrd recover-able, µg/L (01034)
Nov 18...	.32	.020	.17	E.006	.03	.011	.018	.49	.52	--	--	--	--
Feb 26...	.21	.012	.54	E.003	E.01	E.004	E.007	.76	E.77	37.0	.07	E.04	<.40
May 13...	.50	.020	.34	E.007	.06	.018	.019	.85	.91	--	--	--	--
Aug 20...	.29	.048	.35	.012	.09	.020	.036	.64	.73	36.2	.06	<.06	<.40

## 01411490 GREEN BRANCH AT BROTMANVILLE, NJ—Continued

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

Part 4 of 5

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

Date	Copper,	Iron,	Lead,	Mangan-	Mercury	Nickel,	Silver,	Zinc,		Arsenic	Arsenic	Boron,	Selen-	Organic
	water, unfltrd recover- able, µg/L (01042)	water, unfltrd recover- able, µg/L (01045)	water, unfltrd recover- able, µg/L (01051)	ese, water, unfltrd recover- able, µg/L (01055)	water, unfltrd recover- able, µg/L (71900)	water, unfltrd recover- able, µg/L (01067)	water, unfltrd recover- able, µg/L (01077)	water, unfltrd recover- able, µg/L (01092)		water, fltrd, µg/L (01000)	water, unfltrd µg/L (01002)	water, unfltrd recover- able, µg/L (01022)	ium, water, unfltrd µg/L (01147)	carbon, suspnd sedimnt total, mg/L (00689)
Nov 18...	--	--	--	--	--	--	--	--	--	--	--	--	--	.28
Feb 26...	<4.0	96	.22	18.1	.049	.92	<.06	6.7	.18	E.15	E9	E.09		.16
May 13...	--	--	--	--	--	--	--	--	--	--	--	--	--	.50
Aug 20...	<4.0	258	.48	11.1	.063	.87	<.06	4.0	.28	.27	E9	E.10		.49

**WATER-QUALITY  
DATA**

**WATER YEAR  
OCTOBER 2008 TO  
SEPTEMBER 2009**

Part 5 of 5

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

Date	Organic carbon, water, fltrd, mg/L (00681)
Nov 18...	9.0
Feb 26...	4.2
May 13...	11.7
Aug 20...	4.0