

01411487 GREEN BRANCH NEAR SIX POINTS, NJ

LOCATION.--Lat 39°32'53", long 75°06'03", Salem County, Hydrologic Unit 02040206, at bridge on Crow Pond Road, 1.1 mi southwest of Willow Grove Township, 1.2 mi northeast of Six Points, and 1.3 mi upstream of Endless Branch in Pittsgrove.

DRAINAGE AREA.--3.05 mi<sup>2</sup>.

PERIOD OF RECORD.--November 2004 to August 2005.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Concentrations of ammonia in samples collected during November to December and August to September; orthophosphate in every sampling period except February to March; and nitrite, biochemical oxygen demand, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Turbidity white light, det ang 90+/-30 correctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	
Date		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)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Date		Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
NOV 23...	1000	.6	.194	.155	762	7.8	71	5.1	49	12.4	11.3	9	1.73	
FEB 24...	0930	2.6	.140	.108	765	9.4	74	5.0	52	-1.0	5.6	9	1.72	
MAY 10...	1000	1.0	.204	.161	762	9.6	89	5.5	52	16.0	12.0	10	1.87	
AUG 31...	1000	.5	.068	.056	749	8.0	85	5.7	62	27.0	17.8	9	1.80	
NOV 23...	1.18	1.09	3.94	2	6.89	<1	9.7	3.6	33	39	1	.17	.015	
FEB 24...	1.20	1.04	4.02	2	7.28	<1	7.1	5.2	31	39	--	.29	<.040	
MAY 10...	1.32	1.18	4.13	3	7.41	<1	4.5	4.8	29	34	--	3.7	.064	
AUG 31...	1.09	1.07	3.69	<5	6.80	<1	9.3	3.7	--	40	2	3.3	.035	
NOV 23...	.64	.005	<.02	.81	--	.013	.013	.015	<.1	<.1	<.1	3.6	E1.3	
FEB 24...	.59	--	.12	.88	1.0	<.006	.005	.019	1.9	<.1	1.9	3.2	--	
MAY 10...	.48	--	.07	4.2	4.2	E.003	.007	.040	.8	<.1	.8	4.6	<1.0	
AUG 31...	.72	--	<.02	4.1	--	.012	.015	.023	.3	<.1	.3	1.5	<1.0	

## MAURICE RIVER BASIN

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## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Boron, water, fltrd, ug/L (01020)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 23...	8.4	--
FEB 24...	7.4	8
MAY 10...	8.9	3
AUG 31...	7.5	--

Remark codes used in this table:  
 < -- Less than.  
 E -- Estimated.

## WATER-COLUMN TRACE-ELEMENT ANALYSES

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recover- able, ug/L (01007)	Beryll- ium, water, unfltrd recover- able, ug/L (01012)	Boron, water, unfltrd recover- able, ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, unfltrd recover- able, ug/L (01034)	Copper, water, unfltrd recover- able, ug/L (01042)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Mercury water, unfltrd recover- able, ug/L (71900)
FEB 24...	0930	E.2	<2	37.0	.09	10	.04	<.8	E.6	200	.61	16.3	.17
AUG 31...	1000	<.2	.19	34.8	.08	12	.04	.18	.9	120	.26	12.7	.15

Date	Nickel, water, unfltrd recover- able, ug/L (01067)	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover- able, ug/L (01077)	Zinc, water, unfltrd recover- able, ug/L (01092)
FEB 24...	1.06	E.3	<.16	5
AUG 31...	1.03	<.4	<.16	4

Remark codes used in this table:  
 < -- Less than.  
 E -- Estimated.

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WATER-COLUMN PESTICIDE ANALYSES

The following were determined using laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Laboratory Measurements" in the Explanation of Water-Quality Records section of this report). Only pesticides detected in one or more surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF ug/L (82673)	Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd, 0.7u GF ug/L (82674)	Chlor-pyrifos water, fltrd, ug/L (38933)	DCPA, water fltrd, 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazi-non, water, fltrd, ug/L (39572)
MAY 26...	1000	<.006	<.006	<.005	E.002	<.050	<.010	<.041	<.020	<.005	<.003	<.012	<.005
Date	Time	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Linuron water fltrd, 0.7u GF ug/L (82666)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Naprop-amide, water, fltrd, 0.7u GF ug/L (82684)	Pendi-meth-alin, water, fltrd, 0.7u GF ug/L (82683)	Prome-ton, water, fltrd, ug/L (04037)	Propy-zamide, water, fltrd, 0.7u GF ug/L (82676)	Sima-zine, water, fltrd, ug/L (04035)
MAY 26...	<.009	<.029	<.013	<.024	<.016	<.035	.022	<.006	<.007	<.022	<.01	<.004	<.005
Date	Time					Tebu-thiuron water fltrd, 0.7u GF ug/L (82670)	Terba-cil, water, fltrd, 0.7u GF ug/L (82665)	Tri-flur-alin, water, fltrd, 0.7u GF ug/L (82661)					
MAY 26...						<.02	<.034	<.009					

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 < -- Less than.  
 E -- Estimated.

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Entero-cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, ECbroth water, MPN/ 100 mL (31615)
MAY 04...	1015	30	<100	<20
MAY 11...	1015	50	100	<20
MAY 18...	1010	90	<100	20
MAY 25...	1000	10	<100	<20
JUN 01...	1020	10	100	170

Remark codes used in this table:  
 < -- Less than.