

Water-Data Report 2006

01380320 STONY BROOK AT BOONTON, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°55'44", long 74°26'15" referenced to North American Datum of 1983, Morris County, NJ, Hydrologic Unit 02030103, 10 ft upstream of bridge on Valley Road, 0.4mi upstream of mouth, 2.0 mi northwest of Boonton, and 0.5 mi southwest of airport at Boonton.

DRAINAGE AREA.--12.1 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985-86, 2000, 2005 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 6.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

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

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, mg/L (00300)	pH percent of sat- uration (00301)	Specif. water, unfltrd field, std units (00400)	Conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 09...	0815	1.5	.160	.125	755	9.0	78	6.8	203	10.0	8.7	48	12.0	
Feb 14...	0800	1.5	.088	.067	751	12.9	93	7.0	203	3.5	1.4	41	10.2	
May 03...	0800	3.3	.133	.102	747	7.6	76	7.0	183	13.5	14.2	43	10.8	
Aug 16...	0830	2.4	.115	.089	754	5.8	66	7.5	273	24.0	20.5	72	17.8	

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	ANC, wat unf						Residue water,		Residue on		Residue total		Ammonia	
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	CaCO ₃ mg/L as (90410)	Chlor- ide, end pt lab, mg/L as (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	180degC sum of constituents mg/L (70301)	180degC wat flt mg/L (70300)	sus- pended, mg/L (00530)	at 105 deg. C, mg/L (00623)	org-N, water, fltrd, mg/L (00608)	Ammonia water, fltrd, mg/L (00608)
Nov 09...	4.36	1.01	16.8	22	35.1	E.06	11.6	12.6	107	120	5	.30	.055	
Feb 14...	3.73	.73	21.2	19	38.4	E.08	9.0	11.0		122	2	.18	.064	
May 03...	3.97	.66	15.5	24	31.8	E.07	6.2	9.75	93	113	4	.27	.048	
Aug 16...	6.75	1.03	20.6	46	48.4	E.06	6.1	8.86	138	170	5	.33	.039	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, susnd sediment mg/L (00694)	Inor- ganic carbon, susnd sediment mg/L (00688)	Organic carbon, susnd sediment mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, mg/L (00310)	Arsenic water, fltrd, ug/L (01000)
	.12	.03	.41	.45	E.007	.010	.018	.2	<.1	.2	4.4	<1.0	--
Nov 09...	.12	.03	.41	.45	E.007	.010	.018	.2	<.1	.2	4.4	<1.0	--
Feb 14...	.22	<.02	.40	--	--	.005	.010	.2	<.1	.2	2.2	<1.0	.17
May 03...	.09	.06	.36	.42	E.006	.012	.024	.6	<.1	.6	3.4	<1.0	--
Aug 16...	.09	.02	.42	.44	E.009	.011	.023	.3	<.1	.2	3.0	E2.1	.75

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	Beryll-		Chrom-		Mangan-						
	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd ug/L (01007)	ium, water, unfltrd ug/L (01012)	Boron, water, unfltrd ug/L (01020)	Cadmium water, unfltrd ug/L (01022)	Copper, water, unfltrd ug/L (01027)	Iron, water, unfltrd ug/L (01034)	Lead, water, unfltrd ug/L (01042)	ese, water, unfltrd ug/L (01045)	Mercury water, unfltrd ug/L (01055)	Nickel, water, unfltrd ug/L (01067)
Nov 09...	--	--	--	15	--	--	--	--	--	--	--
Feb 14...	.29	9.2	<.06	11	11	.07	.29	1.5	161	.24	38.3
May 03...	--	--	--	13	--	--	--	--	--	--	--
Aug 16...	1.1	10.2	<.06	20	20	.10	.29	1.2	313	.35	117

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO
SEPTEMBER 2006

Part 5 of 5

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

Date	Silver, Zinc,	
	Selen- ium, water, unfltrd ug/L (01147)	Zinc, water, unfltrd ug/L (01077)
Nov 09...	--	--
Feb 14...	E.05	<.16
May 03...	--	--
Aug 16...	.13	<.16
		E1

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, water, fltrd, ug/L (39732)	2,4-DB water, fltrd, 0.7u GF ug/L (38746)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	Hydroxy carbo- furan, wat flt ug/L (49308)	Aldi- carb sulfone water, fltrd, 0.7u GF ug/L (49313)	Aldi- carb sulf- oxide, wat flt 0.7u GF ug/L (49314)	Aldi- carb, water, fltrd, 0.7u GF ug/L (49312)	Atra- zine, water, fltrd, ug/L (39632)	Bendio- carb, water, fltrd, ug/L (50299)
May 03...	0800	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02	<.022	<.04	<.008	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than.]

Date	Benomyl water, fltrd, ug/L (50300)	Bensul- furon- methyl, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd, 0.7u GF ug/L (38711)	Bromo- cil, water, fltrd, 0.7u GF ug/L (04029)	Brom- oxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf- feine, water, fltrd, 0.7u GF ug/L (50305)	Car- baryl, water, fltrd, 0.7u GF ug/L (49310)	Carbo- furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor- amben- methyl, water, fltrd, 0.7u GF ug/L (61188)	Chlori- muron, water, fltrd, 0.7u GF ug/L (50306)	Chloro- di- amino- s-tri- azine, water, fltrd, 0.7u GF ug/L (04039)	Clopyr- alid, water, fltrd, 0.7u GF ug/L (49305)	Cyclo- ate, water, fltrd, ug/L (04031)
May 03...	<.022	<.02	<.01	<.02	<.03	<.018	<.02	<.016	<.02	<.032	<.04	<.02	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than.]

Date	Dacthal mono- acid, water, fltrd, 0.7u GF ug/L (49304)	Dicamba water, fltrd, 0.7u GF ug/L (38442)	Di- chlor- prop, water, fltrd, 0.7u GF ug/L (49302)	Diphen- amid, water, fltrd, 0.7u GF ug/L (04033)	Diuron, water, fltrd, 0.7u GF ug/L (49300)	Fenuron, water, fltrd, 0.7u GF ug/L (49297)	Flumet- sulam, water, fltrd, 0.7u GF ug/L (61694)	Fluo- meturon, water, fltrd, 0.7u GF ug/L (38811)	Imaza- quin, water, fltrd, 0.7u GF ug/L (50356)	Imaze- thapyr, water, fltrd, 0.7u GF ug/L (50407)	Imida- cloprid, water, fltrd, 0.7u GF ug/L (61695)	Linuron water, fltrd, 0.7u GF ug/L (38478)	MCPA, water, fltrd, 0.7u GF ug/L (38482)
May 03...	<.03	<.04	<.03	<.01	<.02	<.02	<.04	<.02	<.04	<.04	<.020	<.01	<.03

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than.]

Date	MCPB, water, filtrd 0.7u GF ug/L (38487)	Meta- laxyl, water, filtrd 0.7u GF ug/L (50359)	Methio- carb, water, filtrd 0.7u GF ug/L (38501)	Meth- omyl, water, filtrd 0.7u GF ug/L (49296)	Metsul- furon, water, filtrd 0.7u GF ug/L (61697)	Chloro- phenyl) methyl- urea, water, filtrd 0.7u GF ug/L (61692)	Neburon water, filtrd 0.7u GF ug/L (49294)	Nico- sul- furone, water, filtrd 0.7u GF ug/L (50364)	Norflur azone, water, filtrd 0.7u GF ug/L (49293)	Ory- zalin, water, filtrd 0.7u GF ug/L (49292)	Oxamyl, water, filtrd 0.7u GF ug/L (38866)	Pic- loram, water, filtrd 0.7u GF ug/L (49291)	Propham water, filtrd 0.7u GF ug/L (49236)
May 03...	<.01	<.01	<.010	<.020	<.07	<.04	<.01	<.04	<.02	<.01	<.03	<.03	<.030

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than.]

Date	Propi- conazole, water, filtrd 0.7u GF ug/L (50471)	Pro- poxur, water, filtrd 0.7u GF ug/L (38538)	Sulfo- Siduron water, filtrd 0.7u GF ug/L (38548)	Tebu- met- ruron, water, filtrd 0.7u GF ug/L (50337)	Teba- thiuron water, filtrd 0.7u GF ug/L (82670)	Tri- cetyl, water, filtrd 0.7u GF ug/L (04032)	clopyp- water, filtrd 0.7u GF ug/L (49235)
May 03...	<.01	<.008	<.02	<.091	<.026	<.016	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Enter- cocci, m-E Temp- ature, water, deg C (00010)	Fecal E coli, m-TEC MF, water, col/ 100 mL (31649)	Enter- cocci, m-E Temp- ature, water, deg C (00010)	Fecal E coli, m-TEC MF, water, col/ 100 mL (31633)	Enter- cocci, m-E Temp- ature, water, deg C (00010)
Jul						
12...	1030	24.5	110	20	130	
19...	1018	25.8	510	90	110	
26...	1102	24.6	2,900	130	500	
Aug						
02...	0929	27.2	470	40	220	
09...	0946	20.9	700	10	300	