

Water-Data Report 2006

01367902 CLOVE BROOK AT LOOMIS AVE AT SUSSEX NJ

HUDSON RIVER BASIN

LOCATION.--Lat 41°12'28", long 74°36'33" referenced to North American Datum of 1983, Sussex Borough, Sussex County, NJ, Hydrologic Unit 02020007, at bridge on Loomis Avenue, 0.1 mi southwest of Sussex town center, 0.4 mi downstream of Clove Acres Lake, and 0.9 mi northeast of Sussex Airport.

DRAINAGE AREA.--19.8 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 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 2.

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 02...	1030	3.1	.096	.074	753	11.0	98	7.6	225	7.5	9.8	56	17.7	
Feb 28...	1030	2.5	.052	.041	750	14.0	108	8.1	294	-8.5	3.6	72	23.1	
May 10...	1045	2.5	.092	.070	748	9.5	99	9.0	266	11.5	16.4	71	22.9	
Aug 15...	1045	11	.124	.096	747	7.5	90	7.9	321	18.0	22.8	88	28.7	

01367902 CLOVE BROOK AT LOOMIS AVE AT SUSSEX 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, fltrd,		Residue on sum of consti- tuents		Residue total at 105 deg. C,		Ammonia + org-N, water, fltrd, mg/L as N (00623)	
	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, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	180degC wat flt mg/L (70301)	(70300)	(00530)	Ammonia water, fltrd, mg/L as N (00608)		
Nov 02...	2.76	1.54	18.7	36	31.9	E.06	7.3	15.7	121	130	3	.27	.016	
Feb 28...	3.47	1.28	27.4	39	50.9	E.06	4.6	14.7	152	161	2	.30	.040	
May 10...	3.30	1.12	24.9	46	43.8	.12	2.5	12.8	139	152	2	.29	.035	
Aug 15...	3.99	1.80	26.3	70	46.9	E.06	4.5	11.7	167	186	16	.46	.071	

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- phos- phate, 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, 20 degC mg/L (00310)	Arsenic water, fltrd, ug/L (01000)
Nov 02...	.72	<.02	.99	--	.014	.019	.032	.4	<.1	.3	2.5	<1.0	--
Feb 28...	.77	.06	1.1	1.1	E.006	.009	.019	.3	<.1	.3	1.6	<1.0	.18
May 10...	.10	.09	.40	.48	E.009	.017	.033	.6	<.1	.6	2.5	E2.2	--
Aug 15...	.21	.40	.68	1.1	E.009	.025	.082	2.8	<.1	2.8	3.7	2.4	1.2

01367902 CLOVE BROOK AT LOOMIS AVE AT SUSSEX 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)	Boron, water, unfltrd ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	ium, water, unfltrd ug/L (01034)	Copper, water, unfltrd ug/L (01042)	Iron, water, unfltrd ug/L (01045)	Lead, water, unfltrd ug/L (01051)	ese, water, unfltrd ug/L (01055)	Mercury water, unfltrd ug/L (71900)
Nov 02...	--	--	--	14	--	--	--	--	--	--	--	--
Feb 28...	.28	9.8	<.06	12	12	<.04	.09	.9	222	.14	51.7	<.010
May 10...	--	--	--	13	--	--	--	--	--	--	--	--
Aug 15...	1.6	16.3	<.06	17	20	.05	.30	1.1	876	.86	242	<.010
												.96

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)	water, unfltrd ug/L (01077)	water, unfltrd ug/L (01092)
Nov 02...	--	--	--
Feb 28...	E.05	<.16	<2
May 10...	--	--	--
Aug 15...	.12	<.16	3

01367902 CLOVE BROOK AT LOOMIS AVE AT SUSSEX NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

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

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-DB water, water, fltrd, ug/L (39732)	CIAT, 0.7u GF	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo-furan, wat flt	Aci-fluor-fen, water, fltrd	Aldi-carb sulfone, water, fltrd	Aldi-carb sulf-oxide, wat flt	Aldi-carb, water, fltrd, ug/L (49314)	Atri-zine, water, fltrd, ug/L (39632)	
May 10...	1045	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.028	<.02	<.022	<.04	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl, water, fltrd, ug/L (50300)	Bensulfuron-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, ug/L (38711)	Bromo-oxynil, cil, water, fltrd, ug/L (04029)	Caf-feine, water, fltrd, ug/L (49311)	Car-baryl, water, fltrd, ug/L (50305)	Carbo-furan, water, fltrd, ug/L (49310)	Chlor-amben methyl, water, fltrd, ug/L (49309)	Chlori-muron, water, fltrd, ug/L (61188)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (50306)	Clopyralid, water, fltrd, ug/L (04039)	
May 10...	<.02	<.022	<.02	<.01	<.02	<.03	E.008	<.02	<.016	<.02	<.032	<.04	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Dacthal mono-acid, water, fltrd, ug/L (04031)	Dicamba, water, fltrd, ug/L (49304)	Di-chlor-prop, water, fltrd, ug/L (38442)	Dinoseb, water, fltrd, ug/L (49302)	Diphen-amid, water, fltrd, ug/L (49301)	Diuron, water, fltrd, ug/L (04033)	Fenuron, water, fltrd, ug/L (49300)	Flumet-sulam, water, fltrd, ug/L (49297)	Fluo-meturon, water, fltrd, ug/L (61694)	Imaza-quin, water, fltrd, ug/L (38811)	Imaze-thapyr, water, fltrd, ug/L (50356)	Imida-cloprid, water, fltrd, ug/L (50407)	
May 10...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.02	<.04	<.02	<.04	<.04	<.020

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WATER-QUALITY DATA
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Part 4 of 5

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

Date	Linuron water, fltrd 0.7u GF ug/L (38478)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Meta- laxyl, water, fltrd, 0.7u GF ug/L (50359)	Methio- carb, water, fltrd 0.7u GF ug/L (38501)	Meth- omyl, water, fltrd 0.7u GF ug/L (49296)	Metsul- furon, water, fltrd, 0.7u GF ug/L (61697)	Chloro- phenyl) methyl- urea, water, fltrd 0.7u GF ug/L (61692)	Nico- sul- furon, water, fltrd 0.7u GF ug/L (49294)	Norflur- azon, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	
								N-(4-					
May 10...	<.01	<.03	<.01	<.01	<.010	<.020	<.07	<.04	<.01	<.04	<.02	<.01	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Pic- loram, water, fltrd 0.7u GF ug/L (49291)	Propham water, fltrd 0.7u GF ug/L (49236)	Propi- conazole, water, fltrd, 0.7u GF ug/L (50471)	Pro- poxur, water, fltrd 0.7u GF ug/L (38538)	Sulfo- ruron, water, fltrd, 0.7u GF ug/L (38548)	Tebu- thiuron water, fltrd 0.7u GF ug/L (50337)	Teba- cil, water, fltrd 0.7u GF ug/L (82670)	Tri- clopyr, water, fltrd 0.7u GF ug/L (04032)							
	Sulfo- ruron, Tebu- thiuron, Terba- cil, Tri- clopyr,														
May 10...	<.03	<.030	<.01	<.008	<.02	<.091	<.026	<.016	<.03						

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temper- ature, water, deg C (00010)	Enter- occi, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth MPN/ 100 mL (31615)
			Enter- occi, E coli, m-E m-TEC MF, MF, water, water, col/ col/ 100 mL 100 mL (31649) (31633)		
May 03...	0745	14.0	100	40	110
10...	0831	16.0	80	20	<20
17...	0924	13.3	5,800	2,700	9,000
24...	0920	14.3	<10	110	40
31...	0955	23.0	190	10	130