01399520 HERZOG BROOK NEAR POTTERSVILLE, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°42′24″, long 74°43′00″ referenced to North American Datum of 1983, Bedminster Township, Somerset County, NJ, Hydrologic Unit 02030105, at bridge on Black River Road, 800 ftupstream of mouth, 0.7 mi southeast of Pottersville, and 4.1 mi northwest of Bedminster.

DRAINAGE AREA.--4.91 mi^2.

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 8.

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	Sample type	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)
Nov												
09...	1015	Environmental	.4	.063	.052	760	11.1	95	7.7	231	5.0	8.5
Feb												
02...	1015	Environmental	1.0	.027	.018	758	12.9	98	7.6	196	3.0	3.7
Jun												
15...	0800	Environmental	1.8	.076	.060	757	8.8	89	7.7	211	19.0	15.4
Aug												
16...	*0940*	*Field Blank*	--	--	--	--	--	--	--	--	--	--
16...	1000	Environmental	.7	.049	.038	759	9.2	100	7.9	226	18.5	18.9

01399520 HERZOG BROOK NEAR POTTERSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 2 of 5
[Remark codes: <, less than; E, estimated.]

Date	Hardness, water, mg/L as CaCO3 (00900)	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)	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)
Nov													
09...	84	20.4	8.02	1.25	10.2	53	26.2	E.07	17.3	15.1	132	142	1
Feb													
02...	63	14.6	6.36	.93	11.6	38	24.5	E.05	16.4	13.6	115	109	1
Jun													
15...	68	16.3	6.71	1.09	10.7	48	24.2	E.08	17.3	12.2	121	148	1
Aug													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	78	18.4	7.65	1.04	9.75	56	24.0	E.06	18.9	13.0	130	142	1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
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)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	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													
09...	.27	.024	.36	<.02	.63	E.009	.007	.010	.1	<.1	.1	2.2	E1.7
Feb													
02...	E.10	.013	.93	<.02	--	.011	.006	.009	<.1	<.1	<.1	1.2	<1.0
Jun													
15...	.21	.040	.81	<.02	1.0	.016	.015	.019	.1	<.1	.1	2.2	E1.9
Aug													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	.22	.013	.88	<.02	1.1	.020	.017	.017	<.1	<.1	<.1	1.5	<1.0

01399520 HERZOG BROOK NEAR POTTERSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 4 of 5
[Remark codes: <, less than; E, estimated.]

Date	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, fltrd, ug/L (01020)	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, fltrd, ug/L (01040)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover -able, ug/L (01051)
Nov													
09...	--	--	--	--	21	--	--	--	--	--	--	--	--
Feb													
02...	.13	<.12	25.2	<.06	12	10	<.04	.17	--	E.5	46	--	<.06
Jun													
15...	--	--	--	--	17	--	--	--	--	--	--	--	--
Aug													
16...	*<.12*	--	--	--	--	--	--	--	*<.40*	--	--	*<.08*	--
16...	.26	.26	29.9	<.06	16	13	<.04	.24	--	E.5	36	--	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 5 of 5
[Remark codes: <, less than; E, estimated.]

Date	Mangan-ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	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, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)
Nov									
09...	--	--	--	--	--	--	--	--	--
Feb									
02...	8.8	--	<.010	--	.46	.16	<.16	--	<2
Jun									
15...	--	--	--	--	--	--	--	--	--
Aug									
16...	--	*<.010*	--	*<.06*	--	--	--	*<.60*	--
16...	5.7	--	<.010	--	.32	.12	<.16	--	<2

01399520 HERZOG BROOK NEAR POTTERSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 1 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D 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)	3-Hydroxy carbo-furan, wat flt 0.7u GF ug/L (49308)	Aci-fluor-fen, water, fltrd 0.7u GF ug/L (49315)	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)
Jun 15...	0800	<.190	M	<.02	E.01	<.08	<.032	<.008	<.028	<.02	<.100	<.15	.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 2 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl water, fltrd, ug/L (50300)	Bensul-furon-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd 0.7u GF ug/L (38711)	Broma-cil, water, fltrd, ug/L (04029)	Brom-oxynil, water, fltrd 0.7u GF ug/L (49311)	Caf-feine, water, fltrd, 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 ester, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-tri-azine, wat flt ug/L (04039)	Clopyr-alid, water, fltrd 0.7u GF ug/L (49305)
Jun 15...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	<.02	<.016	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 3 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Cyclo-ate, water, fltrd, ug/L (04031)	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)	Dinoseb water, fltrd 0.7u GF ug/L (49301)	Diphen-amid, water, fltrd, 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, ug/L (61694)	Fluo-meturon water, fltrd 0.7u GF ug/L (38811)	Imaza-quin, water, fltrd, ug/L (50356)	Imaze-thapyr, water, fltrd, ug/L (50407)	Imida-cloprid water, fltrd, ug/L (61695)
Jun 15...	<.01	<.03	.05	<.03	<.04	<.01	<.02	<.10	<.04	<.02	<.04	<.04	.026

01399520 HERZOG BROOK NEAR POTTERSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 4 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

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)	Metalaxyl, water, fltrd, ug/L (50359)	Methiocarb, water, fltrd 0.7u GF ug/L (38501)	Methomyl, water, fltrd 0.7u GF ug/L (49296)	Metsulfuron, water, fltrd, ug/L (61697)	N-(4-Chlorophenyl)-N'-methylurea, ug/L (61692)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nicosulfuron, water, fltrd, ug/L (50364)	Norflurazon, water, fltrd 0.7u GF ug/L (49293)	Oryzalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)
Jun													
15...	<.01	.33	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 5 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Picloram, water, fltrd 0.7u GF ug/L (49291)	Propham water, fltrd 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, ug/L (50471)	Propoxur, water, fltrd 0.7u GF ug/L (38538)	Siduron water, fltrd, ug/L (38548)	Sulfometruron, water, fltrd, ug/L (50337)	Tebuthiuron water, fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd, ug/L (04032)	Triclopyr, water, fltrd 0.7u GF ug/L (49235)
Jun									
15...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026	.09

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Temperature, water, deg C (00010)	Enterococci, m-E MF, water, col/100 mL (31649)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, ECbroth water, MPN/100 mL (31615)
May					
24...	0935	11.1	40	40	20
31...	0950	18.2	130	140	500
Jun					
07...	0950	15.0	290	100	700
14...	0955	15.9	280	350	800
21...	0955	18.2	230	390	300