

01446400 PEQUEST RIVER AT BELVIDERE, NJ

LOCATION.--Lat 40°49'45", long 75°04'43", Warren County, Hydrologic Unit 02040105, at bridge on County Route 619 in Belvidere, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--157 mi².

PERIOD OF RECORD.--Water years 1957, 1962, 1976-82, 1998 to current year.

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). Additional trace-element data for this and other stations are presented in "High-Flow Trace-Elements in Selected Streams of New Jersey (303d)" in the Water-Quality at Special-Study Sites section of this report.

COOPERATION.--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.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 1.

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

Date	Time	Instantaneous discharge, cfs (00061)	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 unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	
Date		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 unfltrd 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)
Date		Ammonia water, fltrd, mg/L as N (00608)	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)
NOV 08...	1120	176	.9	.114	.086	762	13.7	117	8.4	526	9.4	8.5	240	
FEB 03...	1140	63	4.0	.057	.043	764	15.1	107	8.0	522	2.0	1.5	240	
MAY 10...	1000	215	3.0	.085	.066	755	11.1	109	8.2	502	19.0	14.3	230	
AUG 04...	1140	52	1.7	.065	.050	754	10.3	120	8.3	539	31.0	22.3	260	
NOV 08...	54.8	25.3	1.72	18.9	211	36.1	E.1	6.8	17.7	293	308	5	.27	
FEB 03...	55.7	24.9	1.46	18.1	196	33.0	.1	8.6	19.6	286	282	--	.21	
MAY 10...	52.5	23.9	1.39	18.7	184	35.5	E.1	5.2	17.5	270	297	--	.21	
AUG 04...	56.9	28.0	2.06	17.0	206	36.0	E.1	6.7	21.0	297	298	2	.28	
NOV 08...	.017	1.07	.007	.04	1.3	1.4	.017	.018	.024	.3	<.1	.3	3.1	
FEB 03...	.057	1.50	--	.07	1.7	1.8	.012	.017	.051	.3	<.1	.3	1.8	
MAY 10...	E.021	1.06	--	.06	1.3	1.3	E.010	.017	.035	.5	<.1	.5	2.2	
AUG 04...	.028	1.25	--	.05	1.5	1.6	.059	.075	.086	.4	<.1	.4	2.1	

01446400 PEQUEST RIVER AT BELVIDERE, NJ—Continued

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

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
NOV 08...	<1.0	14	--	--
FEB 03...	--	12	5	.85
MAY 10...	E1.0	14	5	2.9
AUG 04...	<1.0	19	--	--

Remark codes used in this table:

< -- 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)
JUL 28...	1005	670	100	500
AUG 04...	1010	680	400	500
11...	1005	500	300	230
18...	1010	1,000	<100	140
29...	1050	460	300	500

Remark codes used in this table:

< -- Less than.