

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ

LOCATION.--Lat 40°33'34", long 74°31'40", Somerset County, Hydrologic Unit 02030105, at Queens Bridge on Main street in Bound Brook, 1.7 mi upstream from Fieldsville Dam.

DRAINAGE AREA.--804 mi².

PERIOD OF RECORD.--Water years 1964-69, 1971-73, 1978, 1981 to current year. Published as "at Bound Brook" (station 01403000) 1964-66, and as "below Calco Dam at Bound Brook" (station 01403060) 1967-69.

REMARKS.--Discrete chemical records collected as part of the Long Island-New Jersey National Water-Quality Assessment Program (LINJ NAWQA). Instantaneous discharges are determined at Raritan River below Calco Dam at Bound Brook (station 01403060). For definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Water-Quality Control Data" in the Explanation of Water-Quality Records section of this report.

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	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)	Alkalinity, wat fltr inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat fltr incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)
NOV 01...	1100	281	3.2	764	12.0	114	7.7	342	15.5	13.3	56	69	46.8
JAN 13...	1210	2,180	11	760	12.9	102	7.3	258	10.0	5.3	34	41	39.9
MAR 17...	1230	871	3.0	758	16.0	129	8.7	438	8.5	5.8	44	52	88.1
MAY 31...	1020	281	5.2	757	9.1	101	7.1	341	28.0	20.0	48	58	52.8
JUL 14...	1010	216	5.9	761	7.8	95	7.3	387	28.5	25.0	44	54	49.9
SEP 01...	0950	195	3.4	762	8.3	101	7.8	377	26.0	25.1	61	74	47.2

Date	Sulfate water, fltrd, mg/L (00945)	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)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
NOV 01...	37.5	<.04	2.96	.013	3.54	.300	.34	3	2.3
JAN 13...	19.2	.12	1.59	.014	2.04	.066	.063	8	47
MAR 17...	26.0	<.04	1.78	E.006	2.17	.075	.136	3	7.1
MAY 31...	32.4	.21	2.47	.036	3.40	.228	.34	5	3.8
JUL 14...	37.2	.08	1.90	.018	2.49	.347	.44	7	4.1
SEP 01...	43.2	E.02	2.45	.013	2.99	.354	.44	3	1.6

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

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ—Continued

WATER-COLUMN PESTICIDE ANALYSES

The following were determined using laboratory schedule 2003 in November and May, schedule 2001 in January and March, and schedule 2033 in July and September (listed in their entirety, with laboratory reporting levels, in "Laboratory Measurements" in the Explanation of Water-Quality Records section of this report). Only pesticides detected in samples from this station, or at NAWQA station 01463500, are listed in the following table.

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

Date	Time	Sample type	CIAT, water, fltrd, ug/L (04040)	3,4-Di- chloro- aniline water, fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	Atra- zine, water, fltrd, ug/L (39632)	Car- baryl, water, fltrd, 0.7u GF ug/L (82680)	cis- Propi- cona- zole, water, fltrd, ug/L (79846)	DCPA, water fltrd 0.7u GF ug/L (82682)
NOV 01...	1100	Environmental	E.014	<.004	--	<.006	<.005	.012	<.041	--	<.003
JAN 13...	1210	Environmental	E.011	--	--	<.006	<.005	.012	<.041	--	<.003
MAR 17...	1230	Environmental	E.014	--	--	<.006	<.005	.011	<.041	--	<.003
MAY 31...	1020	Environmental	E.022	E.009	--	.009	.007	.048	E.038	--	E.002
JUL 14...	1009	Field Blank	<.006	<.004	<.004	<.006	<.005	<.007	<.041	<.008	<.003
JUL 14...	1010	Environmental	E.021	E.017	E.007	.010	.013	.057	E.038	E.005	<.003
SEP 01...	0950	Environmental	E.016	<.004	<.004	<.006	<.005	.015	<.041	<.008	<.003

Date	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	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)	Hexa- zinone, water, fltrd, ug/L (04025)	Meta- laxyl, water, fltrd, ug/L (61596)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Myclo- butanil water, fltrd, ug/L (61599)	Prome- ton, water, fltrd, ug/L (04037)	Simaz- ine, water, fltrd, ug/L (04035)
NOV 01...	<.012	<.005	<.029	<.013	<.024	<.016	<.013	<.005	.015	<.006	<.008	<.03	<.005
JAN 13...	<.012	<.005	<.029	<.013	<.024	<.016	--	--	.015	<.006	--	<.01	<.005
MAR 17...	<.012	<.005	<.029	<.013	<.024	<.016	--	--	.014	<.006	--	<.01	<.005
MAY 31...	E.005	<.005	E.007	E.006	E.006	E.013	E.009	<.005	.032	<.006	<.008	E.01	<.009
JUL 14...	<.012	<.005	<.029	<.013	<.024	<.016	<.013	<.005	<.006	<.006	<.008	<.02	<.005
JUL 14...	E.005	.011	<.029	E.006	E.007	E.015	<.013	.020	.054	.009	.013	.03	.010
SEP 01...	E.005	<.005	<.029	E.006	<.024	<.016	<.013	<.005	.013	<.006	<.008	<.01	<.005

Date	Ter- buthyl- azine, water, fltrd, ug/L (04022)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)
NOV 01...	<.01	--
JAN 13...	--	--
MAR 17...	--	--
MAY 31...	<.01	--
JUL 14...	<.01	<.01
JUL 14...	E.01	E.01
SEP 01...	<.01	<.01

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