

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (CENT-SATUR-ATION) (00301)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
DEC 11...	1245	18	--	755	73.4	648	7.2	106	9.5	--	--	--	--
JAN 23...	1615	111	160	762	12.6	100	7.1	87	5.5	22	5.02	2.33	2.57
MAR 04...	1330	227	--	753	11.3	96	6.7	81	7.8	--	--	--	--
APR 01...	1430	98	--	752	10.0	102	6.9	86	15.7	--	--	--	--
MAY 14...	1430	21	--	754	6.6	76	6.7	85	21.6	--	--	--	--
JUN 26...	1430	.15	--	757	6.4	82	6.8	87	28.2	--	--	--	--
AUG 16...	1100	.33	--	754	--	--	--	70	--	--	--	--	--
SEP 01...	1745	585	--	757	8.2	92	6.0	52	20.2	--	--	--	--

Date	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
DEC 11...	--	--	--	--	--	--	--	<.04	.19	.23	--	--	<.05
JAN 23...	6.37	16	9.10	.2	9.7	7.5	74	<.015	.40	.62	.80	.40	.407
MAR 04...	--	--	--	--	--	--	--	E.03	.52	.73	.81	--	.29
APR 01...	--	--	--	--	--	--	--	<.04	.30	.34	.38	--	.08
MAY 14...	--	--	--	--	--	--	--	E.04	.42	.47	.78	--	.36
JUN 26...	--	--	--	--	--	--	--	<.04	.33	.44	--	--	<.05
AUG 16...	--	--	--	--	--	--	--	E.03	.42	.45	--	--	<.05
SEP 01...	--	--	--	--	--	--	--	.06	.67	1.0	.97	.29	.30

Date	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
DEC 11...	<.008	--	--	--	<.06	<.02	<.06	--	--	--	--	--	--
JAN 23...	.003	--	--	1.0	<.06	.008	.07	10.3	450	<2	<.1	<.8	<2.0
MAR 04...	<.008	--	--	1.0	E.03	<.02	.07	--	--	--	--	--	--
APR 01...	<.008	--	--	.42	<.06	<.02	E.04	--	--	--	--	--	--
MAY 14...	E.007	--	--	.83	<.06	E.01	E.05	--	--	--	--	--	--
JUN 26...	<.008	--	--	--	<.06	<.02	<.06	--	--	--	--	--	--
AUG 16...	<.008	--	--	--	<.06	<.02	E.03	--	--	--	--	--	--
SEP 01...	.008	.61	.95	1.3	<.06	E.01	.18	--	--	--	--	--	--

02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
DEC 11...	--	--	--	--	--	--	--	--	--	--	9.4	.46
JAN 23...	1.9	750	M	46.6	E.01	<2	<2.0	<2	<.3	<20	19	5.8
MAR 04...	--	--	--	--	--	--	--	--	--	--	23	14.3
APR 01...	--	--	--	--	--	--	--	--	--	--	7.3	1.9
MAY 14...	--	--	--	--	--	--	--	--	--	--	17	.98
JUN 26...	--	--	--	--	--	--	--	--	--	--	4.4	.0
AUG 16...	--	--	--	--	--	--	--	--	--	--	3.2	.0
SEP 01...	--	--	--	--	--	--	--	--	--	--	160	253

Remark codes used in this report:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified