

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988-91, 1994 to current year

REMARKS.--Station operated 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 Plant Laboratory.

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

Date	Time	Instantaneous discharge, cfs (00061)	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, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)
OCT 05...	1100	.15	767	8.5	87	6.4	100	16.9	.13	.11	<.04	<.06	<.008
NOV 22...	1500	.19	754	10.2	100	7.5	116	13.7	.30	.15	<.04	E.04	<.008
DEC 21...	1630	.22	759	12.9	95	6.8	61	2.7	.11	E.08	<.04	.12	<.008
FEB 10...	1615	.57	752	10.7	94	6.8	70	9.1	.10	.12	<.04	<.06	<.008
APR 07...	1200	.95	749	9.4	97	6.4	64	15.8	.16	.15	<.04	<.06	<.008
JUN 02...	1530	.22	752	8.7	89	7.3	91	16.2	.15	.24	<.04	.15	<.008

  

Date	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic, water, unfltrd ug/L (01002)	Cadmium, water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Cobalt, water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)
OCT 05...	--	--	<.02	<.04	<.04	51	<2	E.02	<.8	.346	.6	700	.11
NOV 22...	--	--	<.02	<.04	<.04	--	--	--	--	--	--	--	--
DEC 21...	.23	--	<.02	<.04	<.04	54	<2	<.04	<.8	.329	1.2	370	.07
FEB 10...	--	--	<.02	<.04	<.04	--	--	--	--	--	--	--	--
APR 07...	--	--	<.02	<.04	<.04	--	--	--	--	--	--	--	--
JUN 02...	.30	.39	<.02	<.04	E.02	--	--	--	--	--	--	--	--

  

Date	Manganese, water, unfltrd recover-able, ug/L (01055)	Mercury, water, unfltrd recover-able, ug/L (71900)	Molybdenum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT 05...	51	<.01	E.1	.44	E.3	<.16	<2	5	.00
NOV 22...	--	--	--	--	--	--	--	6	.00
DEC 21...	49	<.01	<.2	.35	<.4	<.16	E1	3	.00
FEB 10...	--	--	--	--	--	--	--	4	.01
APR 07...	--	--	--	--	--	--	--	11	.03
JUN 02...	--	--	--	--	--	--	--	15	.01