

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°06'54", long 78°52'09", Durham County, Hydrologic Unit 03020201, at dam 7.5 mi below State Highway 501, and 4.0 mi south of Bahama.

DRAINAGE AREA.--97.7 mi².

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Color, water, fltrd, Pt-Co units (00080)	Sam-pling depth, meters (00098)	Trans-parency Secchi disc, meters (00078)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	
Date		Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., mg/L as CaCO3 (00419)	Bicar-bonate, wat unfltrd, titr., mg/L (00450)	Chlor-ide, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	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)	Ortho-phosphate, water, fltrd, mg/L as P (00671)
NOV														
04...	0900	40	1.0	1.10	756	3.5	35	6.3	70	15.2	21	4.93	2.09	
04...	0905	--	11.0	--	756	3.8	38	6.3	74	14.3	--	--	--	
04...	0910	--	23.8	--	756	3.5	34	6.5	83	13.3	--	--	--	
APR														
16...	1130	100	1.0	0.50	757	8.8	87	6.1	45	14.9	15	3.41	1.46	
16...	1135	--	12.0	--	757	7.6	66	5.8	45	8.8	--	--	--	
16...	1140	--	23.9	--	757	2.2	18	6.0	82	7.3	--	--	--	
JUN														
26...	0930	52	1.0	1.10	757	11.3	147	8.7	67	28.3	23	5.39	2.25	
26...	0935	--	11.0	--	757	3.3	29	5.4	46	9.4	--	--	--	
26...	0940	--	23.0	--	757	0.2	2	6.1	101	8.2	--	--	--	
AUG														
14...	1200	75	1.0	1.10	765	4.4	53	5.8	59	24.8	22	5.46	2.05	
14...	1205	--	12.0	--	765	0.2	2	5.7	63	22.4	--	--	--	
14...	1210	--	24.0	--	765	0.4	3	6.2	144	8.5	--	--	--	

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	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)	Manganese, water, unfltrd recover-able, ug/L (01055)
NOV													
04...	--	10.8	1.4	<0.1	140	<2	<0.2	<0.8	<3.4	1.8	400	<1	237
04...	--	--	--	--	--	--	--	--	--	--	610	--	363
04...	--	--	--	--	--	--	--	--	--	--	800	--	513
APR													
16...	0.082	8.8	E1.7	<0.1	310	<2	<0.2	<0.8	<3.4	1.8	540	M	55.5
16...	0.104	--	--	--	--	--	--	--	--	--	710	--	86.8
16...	0.28	--	--	--	--	--	--	--	--	--	3,540	--	893
JUN													
26...	0.048	12.4	7.5	0.4	--	--	--	--	--	--	510	--	21.1
26...	0.21	--	--	--	--	--	--	--	--	--	770	--	456
26...	0.071	--	--	--	--	--	--	--	--	--	5,770	--	2,860
AUG													
14...	0.057	10.1	E8.6	<0.1	--	--	--	--	--	--	450	--	180
14...	0.053	--	--	--	--	--	--	--	--	--	610	--	751
14...	0.073	--	--	--	--	--	--	--	--	--	6,120	--	5,350

Date	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)
NOV						
04...	0.04	<2	<2.0	<3	<0.3	<25
04...	--	--	--	--	--	--
04...	--	--	--	--	--	--
APR						
16...	0.02	<2	<2.0	<3	<0.3	35
16...	--	--	--	--	--	--
16...	--	--	--	--	--	--
JUN						
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
AUG						
14...	--	--	--	--	--	--
14...	--	--	--	--	--	--
14...	--	--	--	--	--	--

