

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°06'53", long 78°52'10", 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 2001 TO SEPTEMBER 2002

Date	Time	COLOR (PLAT- INUM- COBALT UNITS) (00080)	SAM- PLING DEPTH (M) (00098)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	PH WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT													
22...	1115	12	1.0	.50	755	7.0	75	7.0	76	18.2	26	6.34	2.44
22...	1120	--	7.9	--	755	1.6	16	6.8	80	17.5	--	--	--
22...	1125	--	15.8	--	755	.1	1	7.5	292	11.1	--	--	--
APR													
18...	1000	30	1.0	1.10	763	9.7	111	7.8	86	21.9	26	6.25	2.49
18...	1005	--	10.0	--	763	7.5	73	6.6	85	14.3	--	--	--
18...	1010	--	21.9	--	763	.1	1	6.8	119	9.2	--	--	--
JUN													
19...	1130	20	1.0	1.30	760	5.4	66	6.8	96	25.1	28	6.61	2.69
19...	1135	--	10.0	--	760	1.0	12	6.6	97	23.4	--	--	--
19...	1140	--	20.0	--	760	.1	0	6.9	153	11.1	--	--	--
AUG													
15...	1115	20	1.0	1.40	759	6.7	85	7.3	96	27.9	30	7.10	2.90
15...	1120	--	10.0	--	759	.2	2	6.8	121	23.9	--	--	--
15...	1125	--	19.0	--	759	.2	2	7.1	210	11.8	--	--	--

Date	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	BICAR- BONATE IT-FLD AS (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 TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT													
22...	2.06	4.05	22	27	5.05	<.1	8.1	3.2	56	.043	.72	.093	.003
22...	--	--	--	--	--	--	--	--	--	.188	.64	.087	.003
22...	--	--	--	--	--	--	--	--	--	.738	1.4	.013	E.002
APR													
18...	2.00	5.39	18	22	6.92	.1	1.6	6.9	47	<.015	.51	.126	.005
18...	--	--	--	--	--	--	--	--	--	.045	.49	.214	.003
18...	--	--	--	--	--	--	--	--	--	E.011	.69	.514	.003
JUN													
19...	2.03	5.50	24	30	6.91	E.1	1.7	6.7	51	.046	.44	.020	E.002
19...	--	--	--	--	--	--	--	--	--	.126	.47	.022	E.002
19...	--	--	--	--	--	--	--	--	--	1.10	1.7	<.013	<.002
AUG													
15...	2.26	5.75	27	33	6.98	E.1	1.5	6.1	50	<.015	.39	<.013	<.002
15...	--	--	--	--	--	--	--	--	--	.400	.71	<.013	<.002
15...	--	--	--	--	--	--	--	--	--	3.41	4.8	<.013	<.002

Date	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)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70954)	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)	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)
OCT													
22...	<.007	E.03	8.1	17.9	E.3	50	<2	<.1	<.8	<2.0	1.5	170	<1
22...	<.007	E.03	--	--	--	--	--	--	--	--	--	170	--
22...	<.007	E.05	--	--	--	--	--	--	--	--	--	290	--
APR													
18...	<.007	<.06	8.4	E5.1	<.1	E30	<2	<.1	<.8	<2.0	E1.0	160	<1
18...	<.007	E.03	--	--	--	--	--	--	--	--	--	210	--
18...	E.005	.09	--	--	--	--	--	--	--	--	--	1420	--
JUN													
19...	<.007	<.06	6.6	3.8	<.1	--	--	--	--	--	--	90	--
19...	<.007	<.06	--	--	--	--	--	--	--	--	--	140	--
19...	.012	E.05	--	--	--	--	--	--	--	--	--	5260	--
AUG													
15...	<.007	--	6.3	E4.2	<.1	--	--	--	--	--	--	50	--
15...	.009	--	--	--	--	--	--	--	--	--	--	1220	--
15...	.170	--	--	--	--	--	--	--	--	--	--	19600	--

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

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

Date	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL RECOVERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
OCT							
22...	269	.03	<2	<2.0	<2	<.3	<20
22...	948	--	--	--	--	--	--
22...	5540	--	--	--	--	--	--
APR							
18...	34.1	.01	<2	<2.0	<2	<.3	<20
18...	55.3	--	--	--	--	--	--
18...	2330	--	--	--	--	--	--
JUN							
19...	191	--	--	--	--	--	--
19...	485	--	--	--	--	--	--
19...	8690	--	--	--	--	--	--
AUG							
15...	60.8	--	--	--	--	--	--
15...	4290	--	--	--	--	--	--
15...	12500	--	--	--	--	--	--

Remark codes used in this report:
 < -- Less than
 E -- Estimated value

