

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°09'02", long 78°49'49", Durham County, Hydrologic Unit 03020201, at dam 3.0 mi southeast of Bahama.

DRAINAGE AREA.--167 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 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (MG/L) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT													
27...	0910	1.0	72	6.7	18.2	13	755	.80	6.7	71	23	5.44	2.36
27...	0911	5.0	73	6.3	17.6	--	755	--	2.6	27	--	--	--
27...	0912	10.3	66	6.3	9.2	--	755	--	6.4	56	--	--	--
APR													
17...	0930	1.0	55	6.7	19.1	25	761	.90	6.0	65	17	3.91	1.72
17...	0940	6.0	48	5.8	9.9	--	761	--	5.3	47	--	--	--
17...	0945	12.8	67	6.6	9.3	--	761	--	2.5	22	--	--	--
JUN													
25...	1000	1.0	73	7.6	28.2	15	767	.80	7.5	96	23	5.27	2.29
25...	1005	5.8	76	6.2	19.8	--	767	--	.2	3	--	--	--
25...	1010	11.6	56	5.9	9.3	--	767	--	4.5	39	--	--	--
AUG													
23...	1030	1.0	63	7.0	28.1	12	757	.90	6.3	81	19	4.50	1.92
23...	1035	6.0	67	6.4	21.2	--	757	--	.3	3	--	--	--
23...	1040	12.9	59	6.2	9.3	--	757	--	.3	3	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CaCO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
27...	4.7	28	.4	2.14	38	31	2.9	5.2	E.1	10.5	55	.003	.006
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	3.7	30	.4	1.52	33	27	5.8	4.2	<.2	9.3	48	.003	.083
17...	--	--	--	--	--	--	--	--	--	--	--	.006	.316
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	4.6	29	.4	1.72	26	21	4.0	4.4	E.1	8.0	46	<.001	<.005
25...	--	--	--	--	--	--	--	--	--	--	--	<.001	.005
25...	--	--	--	--	--	--	--	--	--	--	--	.003	.435
AUG													
23...	3.5	26	.3	2.27	23	19	3.6	4.2	<.2	7.9	56	<.001	.007
23...	--	--	--	--	--	--	--	--	--	--	--	<.001	.005
23...	--	--	--	--	--	--	--	--	--	--	--	.043	.162

DATE	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM, WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT													
27...	.007	.52	.53	.54	<.060	<.007	.6	<.1	34	<2	<.11	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	.018	.56	.58	.66	<.060	<.007	4.8	E.3	98	<2	<.11	<1	<2
17...	.175	.46	.64	.95	.133	.015	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	.010	.59	.60	--	<.060	<.007	4.0	<.1	--	--	--	--	--
25...	.048	.45	.50	.50	<.060	<.007	--	--	--	--	--	--	--
25...	.050	.46	.51	.95	E.054	E.005	--	--	--	--	--	--	--
AUG													
23...	.010	.64	.65	.66	<.060	<.007	5.0	E.2	--	--	--	--	--
23...	.108	.54	.65	.65	<.060	<.007	--	--	--	--	--	--	--
23...	.385	.86	1.2	1.4	.167	.015	--	--	--	--	--	--	--

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ETHANE-HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH-ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
OCT 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 25...	<.03	<.03	<.1	<.2	<.2	<.2	<.03	<.05	<.04	.028	E.007	<.006	<.018
AUG 23...	--	--	--	--	--	--	--	--	--	--	--	--	--

