

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°09'03", long 78°49'48", 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 2003 TO SEPTEMBER 2004

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, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)
OCT													
29...	0930	75	1.0	.80	752	5.0	53	6.8	68	16.8	21	5.06	2.14
29...	0935	--	6.0	--	752	5.1	53	6.8	68	16.7	--	--	--
29...	0940	--	11.0	--	752	.2	2	6.8	82	14.4	--	--	--
APR													
07...	0930	38	1.0	.70	745	7.9	77	7.2	78	13.0	25	5.72	2.52
07...	0935	--	6.0	--	745	7.2	67	7.2	76	10.8	--	--	--
07...	0940	--	13.3	--	745	6.9	58	6.5	76	7.2	--	--	--
JUN													
29...	0900	20	1.0	1.30	757	6.5	82	7.5	81	27.4	24	5.73	2.44
29...	0905	--	6.0	--	757	.1	2	6.6	88	20.8	--	--	--
29...	0910	--	11.0	--	757	.5	5	6.4	79	8.6	--	--	--
AUG													
18...	0930	25	1.0	.70	759	1.8	21	6.7	100	23.9	21	4.90	2.11
18...	0935	--	6.0	--	759	1.8	20	6.7	69	19.8	--	--	--
18...	0940	--	12.0	--	759	.3	2	6.7	86	9.5	--	--	--

Date	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO3 (00419)	Bicar-bonate, wat unfltrd, field, mg/L (00450)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt 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)
OCT													
29...	2.65	3.95	21	26	4.33	<.2	10.6	3.5	57	.61	.173	.090	.010
29...	--	--	--	--	--	--	--	--	--	.59	.186	.097	.010
29...	--	--	--	--	--	--	--	--	--	.85	.419	.020	.003
APR													
07...	1.59	6.40	21	26	7.15	<.2	9.85	3.7	55	.45	E.009	.206	.002
07...	--	--	--	--	--	--	--	--	--	.43	.042	.322	E.001
07...	--	--	--	--	--	--	--	--	--	.32	<.010	.459	<.002
JUN													
29...	1.57	6.03	21	26	6.29	<.2	10.2	3.7	57	.43	<.010	<.016	<.002
29...	--	--	--	--	--	--	--	--	--	.38	E.009	<.016	<.002
29...	--	--	--	--	--	--	--	--	--	.37	.038	.394	.007
AUG													
18...	1.85	4.60	23	28	5.23	<.2	10.0	3.5	54	.60	.046	E.012	E.001
18...	--	--	--	--	--	--	--	--	--	.77	.160	.062	.005
18...	--	--	--	--	--	--	--	--	--	.60	.250	.204	.007

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	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)
OCT													
29...	<.006	.037	7.8	1.1	<.1	134	<2	<.04	<.8	.289	1.8	730	.44
29...	<.006	.036	--	--	--	--	--	--	--	--	--	770	--
29...	E.003	.049	--	--	--	--	--	--	--	--	--	660	--
APR													
07...	<.006	.028	6.4	8.0	<.1	72	<2	<.04	<.8	.394	1.0	480	.43
07...	<.006	.034	--	--	--	--	--	--	--	--	--	670	--
07...	<.006	.027	--	--	--	--	--	--	--	--	--	630	--
JUN													
29...	<.006	.023	6.7	6.0	E.9	--	--	--	--	--	--	80	--
29...	<.006	.024	--	--	--	--	--	--	--	--	--	960	--
29...	E.003	.025	--	--	--	--	--	--	--	--	--	880	--
AUG													
18...	<.006	.028	8.3	E7.3	<.1	--	--	--	--	--	--	250	--
18...	E.004	.055	--	--	--	--	--	--	--	--	--	1,450	--
18...	.007	.046	--	--	--	--	--	--	--	--	--	1,950	--

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)
OCT						
29...	169	E.02	E.1	E.58	<.4	<.16
29...	173	--	--	--	--	--
29...	1,650	--	--	--	--	--
APR						
07...	47.0	<.02	<.2	.37	<.4	<.16
07...	82.7	--	--	--	--	--
07...	96.8	--	--	--	--	--
JUN						
29...	25.5	--	--	--	--	--
29...	574	--	--	--	--	--
29...	461	--	--	--	--	--
AUG						
18...	79.1	--	--	--	--	--
18...	593	--	--	--	--	--
18...	857	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

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