

0208708905 FALLS LAKE AT STATE HIGHWAY 98 NEAR BAYLEAF, NC

LOCATION.--Lat 35°58'43", long 78°37'58", Wake County, Hydrologic Unit 03020201, at bridge on State Highway 98, 2.0 mi north of Bayleaf.

PERIOD OF RECORD.--Water years 1989 to 1995, 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and May 1995. Results may be obtained from the USGS Water Science Center, Raleigh, NC. 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 2004 TO SEPTEMBER 2005

Date	Time	Medium code	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 sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat un-f 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)
AUG													
03...	0930	9	15	1.0	1.40	756	6.5	87	7.7	108	30.2	28	6.19
03...	0935	9	--	5.0	--	756	.1	2	6.6	124	27.8	--	--
03...	0940	9	--	11.0	--	756	.3	3	6.7	173	18.6	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat un-f incrm. titr., mg/L as CaCO3 (00419)	Bicar-bonate, wat un-f incrm. titr., 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)
AUG													
03...	2.97	2.21	7.24	24	29	7.71	E.1	4.70	5.6	68	.46	E.005	<.016
03...	--	--	--	--	--	--	--	--	--	--	.54	E.007	<.016
03...	--	--	--	--	--	--	--	--	--	--	1.7	1.25	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank- ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank- ton, fluoro, ug/L (70954)	Iron, water, unfltrd recover-able, ug/L (01045)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)
AUG								
03...	E.001	<.006	.022	7.9	2.9	<.1	50	44.4
03...	<.002	<.006	.035	--	--	--	180	1,050
03...	.003	E.005	.042	--	--	--	5,180	3,070

Remark codes used in this table:
 < -- Less than.
 E -- Estimated.

Medium codes used in this table:
 9 -- Surface water.

