

02087701 LAKE BENSON AT DAM NEAR GARNER, NC

LOCATION.--Lat 35°39'45", long 78°36'41", Wake County, Hydrologic Unit 03020201, at dam 1.5 mi below Reedy Branch, 3.3 mi south of Garner.

DRAINAGE AREA.--67.0 mi².

PERIOD OF RECORD.--Water years 1990 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 April 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 unfltrd 25 degC (00095)	Temper-ature, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
05...	1245	9	25	1.0	.60	759	8.6	115	8.8	84	30.6	21	4.85
05...	1250	9	--	2.0	--	759	4.0	52	6.9	84	29.0	--	--
05...	1255	9	--	3.0	--	759	.2	2	6.9	108	27.6	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, 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)
AUG													
05...	2.12	2.32	5.22	19	22	5.97	E.1	9.51	3.1	61	.79	E.007	<.016
05...	--	--	--	--	--	--	--	--	--	--	.85	.015	<.016
05...	--	--	--	--	--	--	--	--	--	--	.95	.158	<.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								
05...	<.002	<.02	.038	8.7	13.7	<.1	200	156
05...	<.002	<.02	.045	--	--	--	310	287
05...	<.002	<.02	.053	--	--	--	360	586

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

Medium codes used in this table:

- 9 -- Surface water.

