



Water-Data Report 2007

02086569 LAKE BUTNER AT DAM NEAR BUTNER, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°10'01", long 78°46'20" referenced to North American Datum of 1983, Granville County, NC, Hydrologic Unit 03020201, above dam, 2.1 mi northwest of Butner.

DRAINAGE AREA.--29.371 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 2007.

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment. Samples for nutrient, chlorophyll *a*, and pheophytin *a* 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 2006 TO SEPTEMBER 2007

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample type	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)	Specif-ic conduc-tance, wat unf 25 degC (00095)	Temper-ature, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)
Aug												
28...	1445	Environmental	20	1.0	2.50	759	60	30.7	18	4.32	1.79	.86
28...	1446	Replicate	20	1.0	2.50	759	60	30.7	18	4.29	1.79	.88
28...	1450	Environmental	--	5.0	--	759	56	13.0	--	--	--	--
28...	1455	Environmental	--	10.0	--	759	57	8.9	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicar-bonate, wat unf incrm. titr., 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)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)
Aug													
28...	4.14	14	17	3.46	E.06	5.84	4.64	43	.38	<.020	<.016	<.002	<.006
28...	4.18	14	17	3.46	E.06	5.80	4.64	49	.38	<.020	<.016	<.002	<.006
28...	--	--	--	--	--	--	--	--	.37	<.020	<.016	<.002	<.006
28...	--	--	--	--	--	--	5.15	--	.47	.030	.120	.002	.016

02086569 LAKE BUTNER AT DAM NEAR BUTNER, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Phos- phorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Pheo- phytin a, phyto- plank- ton, µg/L (62360)	Iron, water, unfltrd recover- able, µg/L (01045)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Mercury water, unfltrd recover- able, µg/L (71890)	Mercury water, unfltrd recover- able, µg/L (71900)	Data base number
Aug										
28...	.015	6.9	7.7	3.9	1.9	244	20.4	<.010	<.010	01
28...	.017	7.3	7.1	3.9	1.9	237	18.9	<.010	<.010	04
28...	.021	--	--	--	--	579	870	--	--	01
28...	.048	8.4	--	--	--	3,090	707	<.010	E.006	01