



Water-Data Report 2007

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NCCape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°57'00", long 79°14'28" referenced to North American Datum of 1983, Orange County, NC, Hydrologic Unit 03030002, above dam, 0.7 mi above North Carolina Highway 54, and 3.6 mi northwest of White Cross.

DRAINAGE AREA.--31.4 mi².**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1989 to current year.

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. Prior to October 1, 2005, samples for chlorophyll *a* were analyzed using a high-performance liquid chromatography method.**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

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 sat- uration (00301)	pH, water, unfiltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, deg C (00095)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calci- um, water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)
Oct													
27...	1000	30	1.0	2.00	755	6.8	68	6.8	87	15.2	27	6.61	2.58
27...	1005	--	6.0	--	755	6.7	68	6.7	90	15.2	--	--	--
27...	1010	--	12.0	--	755	M	.0	6.3	162	11.0	--	--	--
Apr													
13...	1145	35	1.0	1.50	757	8.6	85	6.5	62	14.5	23	5.54	2.25
13...	1150	--	7.0	--	757	4.0	36	5.9	64	9.7	--	--	--
13...	1155	--	13.0	--	757	3.0	26	6.2	69	8.6	--	--	--
Jun													
01...	1000	50	1.0	.90	754	--		6.2	74	25.7	23	5.59	2.31
01...	1005	--	6.0	--	754	--		6.0	76	12.4	--	--	--
01...	1010	--	12.0	--	754	--		6.4	92	9.8	--	--	--
Aug													
31...	1045	20	1.0	1.50	749	--		--	79	29.3	24	5.49	2.43
31...	1050	--	6.0	--	749	--		--	105	12.6	--	--	--
	1055	--	11.0	--	749	--		--	130	10.0	--	--	--

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Potas-	ANC,	Bicar-					Residue	Ammonia	Nitrite		
	sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	wat unf incr.	bionate, wat unf incr.	Chlor- ide, titr., field, mg/L (00419)	Fluor- ide, water, titr., field, mg/L (00450)	Silica, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00950)	on evap.	+ org-N, at 180degC wat flt mg/L (70300)	Ammonia water, unfltrd mg/L (00625)	+ nitrate, water, fltrd, mg/L (00608)
Oct												
27...	2.27	4.58	28	34	5.96	E.08	7.72	3.00	71	.52	.129	.021
27...	--	--	--	--	--	--	--	--	--	.53	.124	.017
27...	--	--	--	--	--	--	--	--	2.7	2.48	<.016	.004
Apr												
13...	2.04	4.32	18	22	5.46	<.10	6.57	4.59	51	.54	.023	.183
13...	--	--	--	--	--	--	--	--	--	.55	.136	.291
13...	--	--	--	--	--	--	--	--	--	.71	.294	.278
Jun												
01...	2.00	4.34	19	23	5.24	E.05	8.34	4.29	59	1.4	.159	E.012
01...	--	--	--	--	--	--	--	--	--	.62	.207	.253
01...	--	--	--	--	--	--	--	--	--	1.0	.564	.047
Aug												
31...	1.97	4.47	21	25	5.63	E.07	7.73	3.34	61	.63	E.010	<.016
31...	--	--	--	--	--	--	--	--	--	1.1	.621	<.016
31...	--	--	--	--	--	--	--	E.10	--	2.4	1.71	<.016
												.004

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC—Continued
**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phyto-plankton, µg/L (70953)	Phéo-phytin a, µg/L (62360)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Arsenic water, unfltrd µg/L (01002)	Cadmium water, unfltrd µg/L (01027)	Chromium, water, unfltrd recover-able, µg/L (01034)	Cobalt water, unfltrd recover-able, µg/L (01037)	Copper, water, unfltrd recover-able, µg/L (01042)	Iron, water, unfltrd recover-able, µg/L (01045)
Oct													
27...	<.006	.009	--	7.4	8.8	4.9	8	.73	<.02	.68	.579	E.7	450
27...	E.003	.008	--	--	--	--	--	--	--	--	--	--	481
27...	.116	.173	--	--	--	--	--	--	--	--	--	--	12,400
Apr													
13...	<.006	.027	--	8.0	14.8	2.5	49	.31	<.02	<.60	.15	E1.2	321
13...	E.004	.024	--	--	--	--	--	--	--	--	--	--	460
13...	E.004	.027	--	--	--	--	--	--	--	--	--	--	694
Jun													
01...	E.004	.021	--	10.0	17.2	1.1	--	--	--	--	--	--	348
01...	E.004	.017	--	--	--	--	--	--	--	--	--	--	335
01...	E.005	.029	--	--	--	--	--	--	--	--	--	--	1,110
Aug													
31...	<.012	.020	6.4	8.1	15.4	2.4	--	--	--	--	--	--	97
31...	E.004	.029	--	--	--	--	--	--	--	--	--	--	2,530
31...	.138	.195	9.4	--	--	--	--	--	--	--	--	--	9,670

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 4

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Date	Mangan- Lead, water, unfiltrd recover -able, µg/L (01051)	Manganese, water, unfiltrd recover -able, µg/L (01055)	Mercury Mercury water, filtrd, -able, µg/L (71890)	Molyb- denum, water, unfiltrd recover -able, µg/L (71900)	Nickel, water, unfiltrd recover -able, µg/L (01062)	Selen- ium, water, unfiltrd recover -able, µg/L (01067)	Silver, water, unfiltrd recover -able, µg/L (01147)	Zinc, water, unfiltrd recover -able, µg/L (01092)	
Oct									
27...	E.04	1,200	--	.013	.1	.31	.16	<.02	4
27...	--	1,200	--	--	--	--	--	--	--
27...	--	4,600	--	--	--	--	--	--	--
Apr									
13...	.10	61.4	--	<.010	.1	.20	.13	<.02	4.7
13...	--	185	--	--	--	--	--	--	--
13...	--	753	--	--	--	--	--	--	--
Jun									
01...	--	123	--	--	--	--	--	--	--
01...	--	553	--	--	--	--	--	--	--
01...	--	2,340	--	--	--	--	--	--	--
Aug									
31...	--	64.9	.021	.029	--	--	--	--	--
31...	--	4,200	--	--	--	--	--	--	--
31...	--	3,510	<.010	.011	--	--	--	--	--