

Water-Data Report 2009

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC

 Cape 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 2008 TO SEPTEMBER 2009**

Part 1 of 5

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

Date	Time	Medium name	Sample type	Baro-metric pressure, mm Hg (00025)	Color, water, fltrd, Pt-Co units (00080)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, field, std units (00400)
Oct								
20...	1000	Surface water	Regular	759	--	--	--	--
20...	1001	QC sample - Surface water	Replicate	759	--	--	--	--
20...	1002	QC sample - Surface water	Replicate	759	--	--	--	--
20...	1005	Surface water	Regular	759	50	6.4	69	7.0
20...	1010	Surface water	Regular	759	--	5.6	59	7.0
20...	1015	Surface water	Regular	759	--	.2	2	6.9
Apr								
21...	1015	Surface water	Regular	--	--	--	--	--
21...	1020	Surface water	Regular	744	80	9.3	97	7.0
21...	1025	Surface water	Regular	744	--	2.6	23	6.1
21...	1030	Surface water	Regular	744	--	1.7	15	6.2
21...	1130	Bottom material	Regular	--	--	--	--	--
Jun								
16...	1100	Surface water	Regular	--	--	--	--	--
16...	1105	Surface water	Regular	751	62	8.7	111	7.8
16...	1110	Surface water	Regular	751	--	.2	2	6.4
16...	1115	Surface water	Regular	751	--	.3	3	6.5
Aug								
07...	1000	Surface water	Regular	--	--	--	--	--
07...	1005	Surface water	Regular	754	25	7.8	101	7.6
07...	1010	Surface water	Regular	754	--	.2	2	6.4
07...	1015	Surface water	Regular	754	--	.2	2	6.4

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 5

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

Date	Specif-ic		Dis-solved								ANC,		Bicar-
	conduc-tance, wat unf μS/cm @ 25 degC (00095)	Temper-ature, deg C (00010)	Trans-parency Secchi meters (00078)	Sam-pling depth, meters (00098)	180degC wat fit (70300)	Hard-dried @ ness, water, mg/L CaCO3 (00900)	Magnes-ium, water, filtrd, mg/L (00915)	Potas-sium, water, filtrd, mg/L (00925)	Sodium, water, filtrd, mg/L (00935)	infl pt titr., field, mg/L CaCO3 (00419)	wat unf titr., field, mg/L (00450)	Bicar-bonate, wat unf titr., field, mg/L (00940)	Chlor-ide, water, filtrd, mg/L (00940)
Oct													
20...	--	--	1.00	2.0	--	--	--	--	--	--	--	--	--
20...	--	--	1.00	2.0	--	--	--	--	--	--	--	--	--
20...	--	--	1.00	2.0	--	--	--	--	--	--	--	--	--
20...	74	18.6	--	1.0	61	24	5.79	2.29	2.90	3.89	20.1	24.5	4.92
20...	77	18.4	--	6.0	--	--	--	--	--	--	--	--	--
20...	183	12.5	--	12.0	--	--	--	--	--	--	--	--	--
Apr													
21...	--	--	1.50	3.0	--	--	--	--	--	--	--	--	--
21...	72	16.1	--	1.0	66	23	5.56	2.25	2.13	4.00	16.7	20.3	5.16
21...	78	8.6	--	9.0	--	--	--	--	--	--	--	--	--
21...	80	8.6	--	17.0	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
16...	--	--	1.70	3.4	--	--	--	--	--	--	--	--	--
16...	76	26.8	--	1.0	56	23	5.46	2.39	2.23	4.08	20.1	24.5	5.35
16...	83	11.6	--	7.0	--	--	--	--	--	--	--	--	--
16...	98	9.4	--	13.0	--	--	--	--	--	--	--	--	--
Aug													
07...	--	--	1.40	2.8	--	--	--	--	--	--	--	--	--
07...	77	28.1	--	1.0	64	24	5.66	2.42	2.25	4.22	20.6	25.1	5.33
07...	95	12.9	--	6.0	--	--	--	--	--	--	--	--	--
07...	112	9.8	--	12.0	--	--	--	--	--	--	--	--	--

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 5

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

Date	Fluor-ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L (00955)	Sulfate water, unfiltrd, mg/L (00945)	Ammonia + org-N, water, unfiltrd mg/L (00625)	Ammonia water, filtrd, mg/L (00608)	Nitrate + nitrite water, filtrd, mg/L (00631)	Nitrite water, filtrd, mg/L (00613)	Ortho-phos-phate, water, filtrd, mg/L (00671)	Phos-phorus, water, unfiltrd mg/L (00665)	Chloro-phyll a, phyto-plank-ton, fluoro, mg/L (70953)	Pheo-phytin a, phyto-plank-ton, μg/L (62360)	Mercury bed sedimnt total digest μg/g (01385)	Alum-inum, water, unfiltrd recover-able, μg/L (01105)
Oct													
20...	--	--	--	.85	.086	.017	<.002	<.008	.023	29.3	3.9	--	--
20...	--	--	--	--	--	--	--	--	--	29.0	4.0	--	--
20...	--	--	--	--	--	--	--	--	--	28.6	3.9	--	--
20...	<.08	7.55	4.15	--	--	--	--	--	--	--	--	--	31
20...	--	--	--	.81	.092	E.014	<.002	<.008	.022	--	--	--	--
20...	--	--	.20	3.5	2.96	<.016	.003	.090	.130	--	--	--	--
Apr													
21...	--	--	--	.62	.021	.284	.004	E.004	.027	12.9	2.0	--	--
21...	<.08	6.02	4.83	--	--	--	--	--	--	--	--	--	56
21...	--	--	--	.77	.281	.332	.006	E.007	.027	--	--	--	--
21...	--	--	4.68	.94	.411	.296	.006	.009	.036	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	.08	--
Jun													
16...	--	--	--	.90	.054	.024	E.001	E.004	.034	46.0	7.0	--	--
16...	<.08	5.20	4.04	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	.66	.222	.068	E.002	E.005	.020	--	--	--	--
16...	--	--	3.46	1.3	.765	<.016	E.002	.022	.041	--	--	--	--
Aug													
07...	--	--	--	.57	E.010	<.016	<.002	<.008	.022	10.7	2.7	--	--
07...	E.07	5.88	3.42	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	1.0	.424	<.016	<.002	E.004	.028	--	--	--	--
07...	--	--	--	1.8	1.23	<.016	.002	.066	.102	--	--	--	--

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

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

Date	Cadmium	Chrom- ium, water, unfltrd water, recover -able,	Cobalt	Copper, water, unfltrd recover -able,	Iron, water, unfltrd recover -able,	Lead, water, unfltrd recover -able,	Mangan- ese, water, unfltrd recover -able,	Mercury	Molyb- denum, water, unfltrd recover -able,	Nickel, water, unfltrd recover -able,	Silver, water, unfltrd recover -able,	Zinc, water, unfltrd recover -able,
	µg/L (01027)	µg/L (01034)	µg/L (01037)	µg/L (01042)	µg/L (01045)	µg/L (01051)	µg/L (01055)	µg/L (71890)	µg/L (71900)	µg/L (01062)	µg/L (01067)	µg/L (01077)
Oct												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.06	<.40	.38	<4.0	255	<.10	458	<.010	<.010	E.1	1.5	<.06
20...	--	--	--	--	266	--	451	--	--	--	--	--
20...	--	--	--	--	11,000	--	4,390	<.010	<.010	--	--	--
Apr												
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.06	<.40	.24	<4.0	371	.20	86.6	E.007	.013	<.1	E.12	<.06
21...	--	--	--	--	763	--	450	--	--	--	--	--
21...	--	--	--	--	1,230	--	819	<.010	<.010	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
Jun												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	185	--	33.9	<.010	<.010	--	--	--
16...	--	--	--	--	534	--	1,070	--	--	--	--	--
16...	--	--	--	--	3,540	--	1,830	<.010	<.010	--	--	--
Aug												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	86	--	73.7	--	--	--	--	--
07...	--	--	--	--	1,800	--	2,560	--	--	--	--	--
07...	--	--	--	--	6,780	--	2,120	--	--	--	--	--

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 5

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

Date	Arsenic water, unfltrd µg/L (01002)	Selen- ium, water, unfltrd µg/L (01147)	Organic carbon, bed sedimnt percent (01395)	Organic carbon, water, filrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Bed sediment, wet sieved, percent <.062mm (69589)	Data base number	Medium code
Oct								
20...	--	--	--	--	--	--	01	WS
20...	--	--	--	--	--	--	04	WSQ
20...	--	--	--	--	--	--	04	WSQ
20...	.48	.15	--	7.6	10.7	--	01	WS
20...	--	--	--	--	--	--	01	WS
20...	--	--	--	8.4	--	--	01	WS
Apr								
21...	--	--	--	--	--	--	01	WS
21...	.22	E.11	--	7.9	9.9	--	01	WS
21...	--	--	--	--	--	--	01	WS
21...	--	--	--	7.1	--	--	01	WS
21...	--	--	3.9	--	--	99	01	SB
Jun								
16...	--	--	--	--	--	--	01	WS
16...	--	--	--	6.6	8.0	--	01	WS
16...	--	--	--	--	--	--	01	WS
16...	--	--	--	7.9	--	--	01	WS
Aug								
07...	--	--	--	--	--	--	01	WS
07...	--	--	--	--	8.6	--	01	WS
07...	--	--	--	--	--	--	01	WS
07...	--	--	--	--	--	--	01	WS