

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC

LOCATION.--Lat 35°56'59", long 79°14'29", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross.

DRAINAGE AREA.--31.4 mi<sup>2</sup>.

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

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. 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 2001 TO SEPTEMBER 2002

Date	Time	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SAMPLING DEPTH (M) (00098)	TRANSPAR-ENCY (SECCHI DISK) (M) (00078)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT) (MG/L) (00300)	OXYGEN, SATUR-ATION (PER-CENT) (00301)	PH WHOLE FIELD (STAND-ARD) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)
NOV													
01...	1430	15	1.0	2.00	762	7.4	73	6.8	75	14.7	26	6.13	2.53
01...	1435	--	5.0	--	762	5.3	52	6.7	76	14.0	--	--	--
01...	1436	--	10.5	--	762	.1	1	6.8	136	10.3	--	--	--
APR													
18...	1330	20	1.0	1.70	763	10.3	124	8.9	79	24.6	24	5.79	2.43
18...	1335	--	6.0	--	763	3.9	36	6.3	77	11.4	--	--	--
18...	1340	--	12.4	--	763	1.4	13	6.6	83	9.8	--	--	--
JUN													
21...	0915	12	1.0	2.60	760	7.6	95	8.6	88	26.4	26	6.28	2.60
21...	0920	--	5.0	--	760	4.1	47	6.8	85	21.3	--	--	--
21...	0925	--	10.0	--	760	.8	7	6.7	109	10.3	--	--	--
AUG													
16...	0830	25	1.0	1.00	757	7.6	98	8.7	92	27.6	29	6.74	3.01
16...	0835	--	4.0	--	757	.9	11	6.7	93	24.8	--	--	--
16...	0840	--	8.0	--	757	.2	1	6.9	138	10.7	--	--	--

Date	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	SODIUM, DIS-SOLVED (MG/L) (00930)	ANC WATER UNFLTRD IT FIELD (MG/L) (00419)	BICAR-BONATE IT-FLD AS (99440)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)	SULFATE DIS-SOLVED (MG/L) (00945)	SOLIDS, RESIDUE AT 180 DEG C (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, DIS-SOLVED (MG/L) (00613)
NOV													
01...	2.21	3.99	--	--	5.21	E.1	6.7	3.2	54	1.65	.43	<.065	<.011
01...	--	--	--	--	--	--	--	--	--	.295	.69	E.009	<.002
01...	--	--	--	--	--	--	--	--	--	.027	2.6	<.013	<.002
APR													
18...	2.43	4.32	20	24	5.94	.1	6.7	5.0	47	<.015	.65	.048	.003
18...	--	--	--	--	--	--	--	--	--	E.009	.41	.402	<.002
18...	--	--	--	--	--	--	--	--	--	E.009	.41	.606	<.002
JUN													
21...	2.44	4.39	24	29	7.03	E.1	5.7	4.8	59	.020	.42	<.013	<.002
21...	--	--	--	--	--	--	--	--	--	.108	.65	E.011	<.002
21...	--	--	--	--	--	--	--	--	--	.745	1.6	<.013	<.002
AUG													
16...	2.79	4.72	31	38	6.48	E.1	5.4	4.3	60	<.015	.66	<.013	<.002
16...	--	--	--	--	--	--	--	--	--	.027	.63	<.013	<.002
16...	--	--	--	--	--	--	--	--	--	1.46	2.1	<.013	<.002

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)	CARBON, ORGANIC TOTAL (MG/L) (00680)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L) (01105)	ARSENIC TOTAL (UG/L) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L) (01051)
NOV													
01...	.082	<.06	6.8	1.4	<.1	<30	<4	<.1	<.8	<2.0	<1.0	80	<1
01...	<.007	<.06	--	--	--	--	--	--	--	--	--	880	--
01...	<.007	.27	--	--	--	--	--	--	--	--	--	15300	--
APR													
18...	<.007	<.06	6.5	E6.3	<.1	E20	<2	<.1	<.8	<2.0	1.2	100	<1
18...	<.007	<.06	--	--	--	--	--	--	--	--	--	210	--
18...	<.007	E.03	--	--	--	--	--	--	--	--	--	330	--
JUN													
21...	<.007	<.06	6.1	2.0	E.2	--	--	--	--	--	--	90	--
21...	<.007	E.03	--	--	--	--	--	--	--	--	--	460	--
21...	.018	.12	--	--	--	--	--	--	--	--	--	6050	--
AUG													
16...	<.007	--	7.9	E6.6	<.1	--	--	--	--	--	--	100	--
16...	<.007	--	--	--	--	--	--	--	--	--	--	170	--
16...	.048	--	--	--	--	--	--	--	--	--	--	9370	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL RECOVERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
NOV							
01...	267	--	<2	<2.0	<4	<.3	<20
01...	2970	--	--	--	--	--	--
01...	3490	--	--	--	--	--	--
APR							
18...	36.2	.05	<2	<2.0	<2	<.3	<20
18...	82.3	--	--	--	--	--	--
18...	990	--	--	--	--	--	--
JUN							
21...	58.9	--	--	--	--	--	--
21...	905	--	--	--	--	--	--
21...	3450	--	--	--	--	--	--
AUG							
16...	71.8	--	--	--	--	--	--
16...	578	--	--	--	--	--	--
16...	4460	--	--	--	--	--	--

Remark codes used in this report:  
 < -- Less than  
 E -- Estimated value

