

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC

LOCATION.--Lat 35°57'00", long 79°14'28", 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 mi².

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 2002 TO SEPTEMBER 2003

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 saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)
OCT													
17...	0900	88	1.0	0.50	749	4.6	50	6.6	88	18.6	27	6.26	2.79
17...	0905	--	6.0	--	749	3.7	40	6.6	90	18.1	--	--	--
17...	0910	--	11.0	--	749	0.0	0.0	7.0	185	11.3	--	--	--
APR													
04...	1100	75	1.0	0.80	749	5.8	55	6.1	58	12.9	18	4.24	1.77
04...	1105	--	6.0	--	749	4.3	38	5.9	58	9.1	--	--	--
04...	1110	--	13.2	--	749	0.1	0.0	7.0	136	8.9	--	--	--
JUN													
27...	1045	50	1.0	1.50	751	9.1	117	7.1	64	27.3	22	5.37	2.17
27...	1050	--	6.0	--	751	0.3	2	5.5	54	11.0	--	--	--
27...	1055	--	13.0	--	751	0.5	4	5.7	63	10.2	--	--	--
AUG													
15...	0945	30	1.0	2.20	758	7.1	93	6.8	68	29.2	26	6.34	2.48
15...	0950	--	6.0	--	758	0.1	0.0	5.5	63	11.9	--	--	--
15...	0955	--	13.0	--	758	0.2	2	6.0	96	9.5	--	--	--

Date	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., mg/L as CaCO3 (00419)	Bicar-bonate, wat unfltrd, titr., mg/L (00450)	Chlor-ide, water, fltrd, mg/L (00940)	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-phosphate, water, fltrd, mg/L as P (00671)
OCT													
17...	3.68	3.76	25	30	4.90	5.2	4.9	65	0.81	0.193	0.45	0.010	<0.007
17...	--	--	--	--	--	--	--	--	0.90	0.188	0.44	0.010	<0.007
17...	--	--	--	--	--	--	--	--	2.0	1.14	0.20	0.027	E.006
APR													
04...	1.68	2.93	11	13	3.10	5.6	5.1	53	0.44	<0.015	0.357	0.007	E.004
04...	--	--	--	--	--	--	--	--	0.51	0.080	0.406	0.011	0.018
04...	--	--	--	--	--	--	--	--	0.58	0.172	0.463	0.023	0.023
JUN													
27...	1.96	3.16	21	26	3.94	7.2	3.2	53	0.87	<0.015	<0.022	<0.002	<0.007
27...	--	--	--	--	--	--	--	--	0.61	0.224	0.255	0.003	0.009
27...	--	--	--	--	--	--	--	--	1.0	0.541	E.017	0.004	0.017
AUG													
15...	1.86	3.83	27	33	4.83	7.8	2.5	55	0.62	<0.015	<0.022	<0.002	<0.007
15...	--	--	--	--	--	--	--	--	0.40	E.008	<0.022	E.002	<0.007
15...	--	--	--	--	--	--	--	--	1.7	1.01	<0.022	0.009	0.127

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)
OCT 17...	--	9.6	8.9	<0.1	110	<2	<0.2	<0.8	<3.4	1.4	500	<1	270
OCT 17...	--	--	--	--	--	--	--	--	--	--	500	--	280
OCT 17...	--	--	--	--	--	--	--	--	--	--	2,390	--	6,070
APR 04...	0.057	8.0	E4.6	<0.1	150	<2	<0.2	<0.8	<3.4	1.4	470	<1	71.0
APR 04...	0.077	--	--	--	--	--	--	--	--	--	580	--	149
APR 04...	0.089	--	--	--	--	--	--	--	--	--	810	--	318
JUN 27...	0.052	9.6	12.3	<0.1	--	--	--	--	--	--	470	--	28.7
JUN 27...	0.069	--	--	--	--	--	--	--	--	--	1,660	--	1,300
JUN 27...	0.113	--	--	--	--	--	--	--	--	--	3,630	--	1,700
AUG 15...	0.035	7.4	E58.2	E15.8	--	--	--	--	--	--	210	--	55.5
AUG 15...	0.026	--	--	--	--	--	--	--	--	--	2,060	--	1,480
AUG 15...	0.187	--	--	--	--	--	--	--	--	--	8,770	--	2,260

Date	Mercury water, unfltrd recover-able, ug/L (71900)	Molybdenum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT 17...	E.01	<2	2.7	<3	<0.3	<25
OCT 17...	--	--	--	--	--	--
OCT 17...	--	--	--	--	--	--
APR 04...	0.06	<2	<2.0	<3	<0.3	<25
APR 04...	--	--	--	--	--	--
APR 04...	--	--	--	--	--	--
JUN 27...	--	--	--	--	--	--
JUN 27...	--	--	--	--	--	--
JUN 27...	--	--	--	--	--	--
AUG 15...	--	--	--	--	--	--
AUG 15...	--	--	--	--	--	--
AUG 15...	--	--	--	--	--	--

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

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