

CAPE FEAR RIVER BASIN

630

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC

LOCATION.--Lat 35°44'30", long 79°01'09", Chatham County, Hydrologic Unit 03030002, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville.

PERIOD OF RECORD.--Water years 1991 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 2003 TO SEPTEMBER 2004

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, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)
OCT													
30...	1100	50	1.2	.80	763	8.0	84	7.7	122	17.8	30	7.42	2.70
30...	1105	--	6.2	--	763	7.4	77	7.5	124	17.3	--	--	--
30...	1110	--	12.2	--	763	.3	3	7.5	126	17.2	--	--	--
APR													
20...	1100	25	1.0	.90	761	10.0	--	8.0	--	17.0	32	8.02	2.88
20...	1105	--	4.0	--	761	8.2	--	7.3	--	15.8	--	--	--
20...	1110	--	9.0	--	761	4.8	--	7.0	--	14.2	--	--	--
JUN													
23...	1030	25	1.0	1.00	757	6.4	81	7.7	173	27.3	34	8.59	3.15
23...	1035	--	4.0	--	757	3.0	38	7.0	175	26.6	--	--	--
23...	1040	--	6.9	--	757	.1	1	7.0	194	21.2	--	--	--
AUG													
24...	1315	25	1.0	.50	760	9.2	119	8.9	178	28.4	35	8.99	2.98
24...	1320	--	4.0	--	760	4.1	51	7.0	172	26.7	--	--	--
24...	1325	--	8.0	--	760	.2	2	6.9	177	24.6	--	--	--

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incr.	Bicar- bonate, wat unf incr.	Chlor- ide, water, titr., field, mg/L (00419)	Fluor- ide, water, titr., field, mg/L (00940)	Silica, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC	Ammonia + org-N, water, unfltrd	Ammonia water, fltrd, mg/L as N (00625)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
30...	3.19	11.6	29	35	9.27	<.2	6.73	8.7	80	.70	.026	.056	.006
30...	--	--	--	--	--	--	--	--	--	.71	.032	.044	.005
30...	--	--	--	--	--	--	--	--	--	.83	.054	.019	.003
APR													
20...	3.32	16.2	32	39	16.5	<.2	.05	11.3	96	.74	.027	.017	.003
20...	--	--	--	--	--	--	--	--	--	.80	.060	.027	.003
20...	--	--	--	--	--	--	--	--	--	.96	.201	.039	.004
JUN													
23...	3.55	18.5	38	46	18.0	.2	1.21	9.7	98	.64	<.010	<.016	<.002
23...	--	--	--	--	--	--	--	--	--	.60	<.010	<.016	<.002
23...	--	--	--	--	--	--	--	--	--	1.7	.814	<.016	<.002
AUG													
24...	3.61	18.0	40	48	18.6	.2	3.76	10.2	99	1.0	E.005	<.016	<.002
24...	--	--	--	--	--	--	--	--	--	.87	<.010	<.016	<.002
24...	--	--	--	--	--	--	--	--	--	1.7	.749	<.016	<.002

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	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)	Alum-inum, water, unfltrd recoverable, ug/L (01105)	Arsenic water, unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)
OCT													
30...	<.006	.044	8.1	16.9	E.5	100	<2	<.04	5.1	.187	1.0	170	.32
30...	E.003	.042	--	--	--	--	--	--	--	--	--	160	--
30...	<.006	.048	--	--	--	--	--	--	--	--	--	250	--
APR													
20...	<.006	.044	9.8	17.1	E.9	47	<2	<.04	<.8	.243	1.1	110	.16
20...	<.006	.054	--	--	--	--	--	--	--	--	--	130	--
20...	E.003	.074	--	--	--	--	--	--	--	--	--	410	--
JUN													
23...	<.006	.038	8.0	14.1	<.2	--	--	--	--	--	--	70	--
23...	<.006	.037	--	--	--	--	--	--	--	--	--	90	--
23...	.038	.122	--	--	--	--	--	--	--	--	--	2,370	--
AUG													
24...	<.006	.058	10.9	28.9	E1.1	--	--	--	--	--	--	90	--
24...	<.006	.046	--	--	--	--	--	--	--	--	--	90	--
24...	.008	.127	--	--	--	--	--	--	--	--	--	1,390	--

Date	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, unfltrd recoverable, ug/L (71900)	Molyb-denum, water, unfltrd recoverable, ug/L (01062)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd recoverable, ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)
OCT						
30...	131	E.01	2.2	<.78	<.4	<.16
30...	134	--	--	--	--	--
30...	179	--	--	--	--	--
APR						
20...	63	E.01	1.7	.79	<.4	<.16
20...	75.0	--	--	--	--	--
20...	274	--	--	--	--	--
JUN						
23...	90.1	--	--	--	--	--
23...	174	--	--	--	--	--
23...	4,020	--	--	--	--	--
AUG						
24...	69.0	--	--	--	--	--
24...	87.1	--	--	--	--	--
24...	2,100	--	--	--	--	--

Remark codes used in this table:

< -- Less than
E -- Estimated value

