0208480275 WEST FORK ENO RIVER RESERVOIR AT DAM NEAR CEDAR GROVE, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°08'57.40", long 79°10'15.78" referenced to North American Datum of 1983, Orange County, NC, Hydrologic Unit 03020201, at dam, 1.7 mi south of Cedar Grove and 5.7 mi northwest of Hillsborough.

DRAINAGE AREA.--9.44 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2010 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.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 6

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Color, water, filtered, platinum cobalt units (00080)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)
10-20-2010	0945	Surface water	Regular	--	--	--	--	--	--
10-20-2010	0950	Surface water	Regular	746	20	7.7	84	7.2	62
10-20-2010	0955	Surface water	Regular	746	--	.2	2	6.8	132
10-20-2010	1000	Surface water	Regular	746	--	.3	2	7.4	370
04-05-2011	1030	Surface water	Regular	--	--	--	--	--	--
04-05-2011	1035	Surface water	Regular	738	50	8.6	83	6.7	76
04-05-2011	1040	Surface water	Regular	738	--	8.3	80	6.6	76
04-05-2011	1045	Surface water	Regular	738	--	8.2	79	6.8	75
06-16-2011	1045	Surface water	Regular	--	--	--	--	--	--
06-16-2011	1050	Surface water	Regular	743	35	7.6	98	7.8	77
06-16-2011	1055	Surface water	Regular	743	--	M	.0	6.7	98
06-16-2011	1100	Surface water	Regular	743	--	M	.0	7.4	214
08-23-2011	1130	Surface water	Regular	--	--	--	--	--	--
08-23-2011	1135	Surface water	Regular	748	--	7.4	97	8.1	75
08-23-2011	1140	Surface water	Regular	748	--	.0	.0	7.5	341

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 0208480275, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/0208480275.2011.pdf

0208480275 WEST FORK ENO RIVER RESERVOIR AT DAM NEAR CEDAR GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 6

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Temperature, water, °C (00010)	Transparency, water, in situ, Secchi disc, m (00078)	Sampling depth, m (00098)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Hardness, water, mg/L as $CaCO_3$ (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
10-20-2010	**0945**	--	3.20	6.4	--	--	--	--	--	--
10-20-2010	**0950**	18.6	--	1.0	74	20.7	4.63	2.22	1.30	3.58
10-20-2010	**0955**	14.1	--	6.0	--	--	--	--	--	--
10-20-2010	**1000**	9.2	--	11.0	--	--	--	--	--	--
04-05-2011	**1030**	--	1.00	2.0	--	--	--	--	--	--
04-05-2011	**1035**	12.7	--	1.0	50	21.4	4.83	2.28	2.20	5.22
04-05-2011	**1040**	12.3	--	7.0	--	--	--	--	--	--
04-05-2011	**1045**	12.3	--	13.0	--	--	--	--	--	--
06-16-2011	**1045**	--	1.90	3.8	--	--	--	--	--	--
06-16-2011	**1050**	27.2	--	1.0	58	22.9	5.03	2.50	1.53	5.49
06-16-2011	**1055**	12.0	--	6.0	--	--	--	--	--	--
06-16-2011	**1100**	9.9	--	11.0	--	--	--	--	--	--
08-23-2011	**1130**	--	2.60	5.2	--	--	--	--	--	--
08-23-2011	**1135**	28.0	--	1.0	51	21.8	4.62	2.49	.46	5.37
08-23-2011	**1140**	10.2	--	11.0	--	--	--	--	--	--

0208480275 WEST FORK ENO RIVER RESERVOIR AT DAM NEAR CEDAR GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 6

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	ANC, water, unfiltered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (00419)	Bi-carbonate, water, unfiltered, inflection-point, incremental titration method, field, mg/L (00450)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)
10-20-2010	0945	--	--	--	--	--	--	.42	.018
10-20-2010	0950	19.7	24.0	3.05	.08	6.02	3.31	--	--
10-20-2010	0955	--	--	--	--	--	--	.72	.160
10-20-2010	1000	--	--	--	--	--	--	8.7	7.47
04-05-2011	1030	--	--	--	--	--	--	.80	.203
04-05-2011	1035	20.8	25.4	4.55	.05	6.16	4.70	--	--
04-05-2011	1040	--	--	--	--	--	--	.75	.203
04-05-2011	1045	--	--	--	--	--	--	1.6	.900
06-16-2011	1045	--	--	--	--	--	--	.64	.092
06-16-2011	1050	22.2	27.1	4.60	.08	1.96	3.67	--	--
06-16-2011	1055	--	--	--	--	--	--	.79	.028
06-16-2011	1100	--	--	--	--	--	--	2.7	2.09
08-23-2011	1130	--	--	--	--	--	--	.71	.017
08-23-2011	1135	23.3	28.1	4.35	.05	4.24	2.81	--	--
08-23-2011	1140	--	--	--	--	--	--	7.0	5.54

0208480275 WEST FORK ENO RIVER RESERVOIR AT DAM NEAR CEDAR GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 6

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos-phate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Aluminum, water, unfiltered, recover-able, µg/L (01105)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, unfiltered, recover-able, µg/L (01034)	Cobalt, water, unfiltered, recoverable, micrograms per liter (01037)
10-20-2010	**0945**	< .008	< .001	.004	.013	--	--	--	--
10-20-2010	**0950**	--	--	--	--	9	< .05	< .21	.14
10-20-2010	**0955**	< .008	.002	.004	.043	--	--	--	--
10-20-2010	**1000**	< .008	.018	< .020	.103	--	--	--	--
04-05-2011	**1030**	.127	.005	.006	.039	--	--	--	--
04-05-2011	**1035**	--	--	--	--	99	< .05	.24	.67
04-05-2011	**1040**	.128	.005	.005	.034	--	--	--	--
04-05-2011	**1045**	.022	.003	< .004	.052	--	--	--	--
06-16-2011	**1045**	< .008	.001	< .004	.014	--	--	--	--
06-16-2011	**1050**	--	--	--	--	--	--	--	--
06-16-2011	**1055**	< .008	< .001	.004	.039	--	--	--	--
06-16-2011	**1100**	< .008	.006	.007	.048	--	--	--	--
08-23-2011	**1130**	< .008	--	< .004	.028	--	--	--	--
08-23-2011	**1135**	--	--	--	--	--	--	--	--
08-23-2011	**1140**	.012	--	< .004	.078	--	--	--	--

0208480275 WEST FORK ENO RIVER RESERVOIR AT DAM NEAR CEDAR GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Copper, water, unfiltered, recoverable, µg/L (01042)	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Mercury, water, unfiltered, recoverable, µg/L (71900)	Molybdenum, water, unfiltered, recoverable, micrograms per liter (01062)	Nickel, water, unfiltered, recoverable, µg/L (01067)	Silver, water, unfiltered, recoverable, µg/L (01077)	Zinc, water, unfiltered, recoverable, µg/L (01092)
10-20-2010	0945	--	--	--	--	--	--	--	--	--
10-20-2010	0950	< .70	193	< .04	130	< .005	< .1	< .12	< .01	< 2.4
10-20-2010	0955	--	4,290	--	4,290	--	--	--	--	--
10-20-2010	1000	--	65,400	--	11,000	--	--	--	--	--
04-05-2011	1030	--	--	--	--	--	--	--	--	--
04-05-2011	1035	.90	1,390	.39	675	.014	.1	.38	< .01	< 2.4
04-05-2011	1040	--	1,430	--	658	--	--	--	--	--
04-05-2011	1045	--	5,560	--	2,840	--	--	--	--	--
06-16-2011	1045	--	--	--	--	--	--	--	--	--
06-16-2011	1050	--	679	--	104	--	--	--	--	--
06-16-2011	1055	--	509	--	2,860	--	--	--	--	--
06-16-2011	1100	--	15,700	--	6,270	--	--	--	--	--
08-23-2011	1130	--	--	--	--	--	--	--	--	--
08-23-2011	1135	--	219	--	42.9	--	--	--	--	--
08-23-2011	1140	--	44,800	--	9,190	--	--	--	--	--

0208480275 WEST FORK ENO RIVER RESERVOIR AT DAM NEAR CEDAR GROVE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 6 of 6

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

Date	Sample start time	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, unfiltered, µg/L (01147)	Organic carbon, water, unfiltered, mg/L (00680)
10-20-2010	0945	--	--	--
10-20-2010	0950	.43	.11	6.0
10-20-2010	0955	--	--	--
10-20-2010	1000	--	--	--
04-05-2011	1030	--	--	--
04-05-2011	1035	.43	.11	9.7
04-05-2011	1040	--	--	--
04-05-2011	1045	--	--	--
06-16-2011	1045	--	--	--
06-16-2011	1050	--	--	9.7
06-16-2011	1055	--	--	--
06-16-2011	1100	--	--	--
08-23-2011	1130	--	--	--
08-23-2011	1135	--	--	8.8
08-23-2011	1140	--	--	--