

CAPE FEAR RIVER BASIN

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC

LOCATION.--Lat 35°52'20", long 78°54'49", Durham County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream of Burdens Creek.

DRAINAGE AREA.--21.1 mi².

PERIOD OF RECORD.--Water years 1983-86, 1989 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1982 to September 1985.

WATER TEMPERATURE: October 1982 to September 1985.

INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

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

COOPERATION.--Sample for October 1994 and April 1995 were collected by the North Carolina Department of Environment, Health, and Natural Resources. A GC/FID scan for trace organic compounds was performed on these samples by the U.S. Geological Survey Water Quality Lab. Results may be obtained from the District office in Raleigh. Instantaneous discharge is not available for April and August 1994.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 872 microsiemens, Oct. 15, 1984; minimum, 29 microsiemens, Jan. 11, Apr. 5, 1984.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 23, 1983; minimum, 0.0°C, Dec. 28, 1983, Jan. 2, 22, 23, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 24...	0950	E12	435	6.7	17.0	5.2
APR 27...	1150	E8.0	610	6.4	18.0	7.9

CAPE FEAR RIVER BASIN

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, December 1988 to April 1995, September 1999.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1982 to September 1985.

WATER TEMPERATURE: October 1982 to September 1985.

INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

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EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 872 microsiemens, Oct. 15, 1984; minimum, 29 microsiemens, Jan. 11, Apr. 5, 1984.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 23, 1983; minimum, 0.0°C, Dec. 28, 1983, Jan. 2, 22, 23, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT) UNITS (00080)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, (PER-CENT) SATUR-ATION (MG/L) (00300)	OXYGEN, (PER-CENT) SATUR-ATION (MG/L) (00301)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)
SEP 07...	1345	727	56	6.2	22.6	150	754	4.9	58	18	4.7	1.5
DATE	TIME	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SI02 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)
SEP 07...	3.3	26	.3	1.9	5.1	2.9	<.10	5.7	103	.007	.071	.019
DATE	TIME	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00605)	NITRO-GEN, ORGANIC TOTAL (MG/L) AS N (00625)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) AS P (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L) AS AL (01105)	ARSENIC TOTAL (UG/L) AS AS (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L) AS CD (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L) AS CR (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L) AS CO (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L) AS CU (01042)	IRON, TOTAL RECOV-ERABLE (UG/L) AS FE (01045)
SEP 07...	.79	.81	.88	.115	.043	1200	1	<1	2	<1	13	950
DATE	TIME	LEAD, TOTAL RECOV-ERABLE (UG/L) AS PB (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L) AS MN (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L) AS HG (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L) AS MO (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L) AS NI (01067)	SELE-NIUM, TOTAL RECOV-ERABLE (UG/L) AS SE (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L) AS AG (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L) AS ZN (01092)	CARBON, ORGANIC TOTAL (MG/L) AS C (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SEP 07...	1	22	<.10	<1	2	<1	<1	<40	13	39	77	

