180 CAPE FEAR RIVER BASIN

0210215985 CAPE FEAR RIVER AT STATE HIGHWAY 42 NEAR BRICKHAVEN, NC

LOCATION.--Lat 35°32′54", long 79°01′34", Chatham County, Hydrologic Unit 03030004, at bridge on State Highway 42, and 1.8 mi south of Brickhaven.

DRAINAGE AREA.--3,160 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. Daily mean discharge values were obtained from the U.S. Army Corps of Engineers reservoir releases from the B. Everett Jordan Lake at the 2400 hour and the daily mean discharge value from Deep River near Moncure (station 02102000). The values from these two sites were added together and entered as a daily mean discharge for each date and time that a water-quality sample was collected.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
OCT 31 DEC	1320	696	161	7.1	17.1	20	763	7.4	76	32	7.87	3.08	17.0
18	1105	1660	236	7.1	7.3	15	760	11.0	92	38	9.62	3.51	29.6
FEB 20	0930	1500	134	6.7	9.7	200	769	10.2	89	33	8.15	2.96	13.0
APR 27	1200	887	145	6.7	16.4	30	770	7.1	72	33	7.89	3.14	13.9
JUN 27	0900	2270	165	6.7	25.9		768	6.8	83	32	7.97	3.03	17.4
AUG 21	1030	1100	177	6.7	25.9	12	758	2.2	27	35	8.51	3.33	22.2
DATE	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	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 SIO2) (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)
OCT 31	50	1	3.62	44	36	14.7	14.4	.2	5.9	102	<.001	.009	.002
DEC 18	59	2	5.06	45	37	24.9	23.4	.3	6.7	146	.005	.585	.117
FEB 20	43	1.0	4.09	16	13	12.8	13.4	E.1	9.9	103	.014	.948	.235
APR 27	45	1	3.39	38	31	13.5	12.3	E.2	4.2	110	.013	.459	.143
JUN													
27 AUG	50	1	4.25	40	32	15.1	15.1	.2	6.6	110	.017	.423	.149
21	54	2	5.02	49	40	17.9	21.5	.2	3.7	122	.010	.260	.010
DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (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)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
OCT 31	. 95	.95	.96	.084	<.007	60	<2	<.11	<1	<2	E1.5	230	<1
DEC 18	.82	.94	1.5	.152	.059								
FEB 20	.64	.87	1.8	.231	.141								
APR 27	.56	.70	1.2	.128	.072	175	<2	E.06	<1	<2	3.1	550	М
JUN 27	.91	1.1	1.5	.147	.068								
AUG 21	.76	.77	1.0	.122	.049								

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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 (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)
OCT										
31	109	<.14	2.2	E1	<2.6	< .43	<31	8.7	23	42
DEC 18								8.9	10	43
FEB								0.9	10	43
20								12	59	239
APR 27	176	. 14	П.О	E1	<2.6	< .43	<31	7.5		
JUN	1/6	<.14	E.9	FI	<2.6	<.43	<31	7.5		
27								9.8	42	260
AUG										
21								8.3	4	13