458 NEUSE RIVER BASIN

353356077342901 EAST DRAINAGE DITCH (MS2-D1) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC

LOCATION.--Lat 35°33'55.6", long 77°34'29.2", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.25 mi south of U.S. Highway 264A and 1.7 mi southeast of Marlboro.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
SEP 2000 29	0900	16.6	7.7	83	4.9	124	19.4	31	34	9.00	2.70	4.10	4.3
DEC				75	5.2		9.2						5.2
11 JAN 2001	1310	14.4	8.6			134		36	40	11.0	3.00	3.60	
18 FEB	1510	E.05	6.7	58	5.7	149	8.8	32	42	12.0	2.80	3.70	8.4
06 26 APR	1205 1140	8.6 10.1	9.6 8.5	79 83	5.7 5.2	142 141	7.3 14.6	29 34	39 40	11.0 11.0	2.70 3.00	4.50 3.80	6.8 6.2
02	1745	40.7	8.5	82	5.1	143	13.9	36	41	11.0	3.30	3.70	5.2
JUN 11	1800	E1.8	6.4	76	6.0	138	23.1	30	39	11.0	2.90	4.20	5.9
JUL 09	1540	9.1	7.1	87	5.6	152	24.8	37	44	12.0	3.30	4.40	6.0
AUG 15	1210	15.7	7.2	88	5.4	130	25.3	30	37	9.80	3.00	4.60	4.5
DATE	ALKA- LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
SEP 2000 29	LINITY WAT.DIS FET LAB CACO3 (MG/L)	RIDE, DIS- SOLVED (MG/L AS CL)	DIS- SOLVED (MG/L AS SO4)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, ORGANIC DIS- SOLVED (MG/L AS N)	GEN, ORGANIC TOTAL (MG/L AS N)	GEN, TOTAL (MG/L AS N)
SEP 2000 29 DEC 11	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4) (00945)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)
SEP 2000 29 DEC 11 JAN 2001 18	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DIS- SOLVED (MG/L AS SO4) (00945)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)
SEP 2000 29 DEC 11 JAN 2001 18 FEB 06	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 3 4 10	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 15.0 17.0	DIS- SOLVED (MG/L AS SO4) (00945) 18.0 22.0 23.0 20.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 64 73 79 76	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 .060 .029 .137	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .44 .20 .69	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .62 .33 .83 .47	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.90 2.00 .770	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 .010 <.010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .53 .27 .80	GEN, TOTAL (MG/L AS N) (00600) 2.5 2.3 1.6
SEP 2000 29 DEC 11 JAN 2001 18 FEB 06 26	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 3 4	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 15.0 17.0	DIS- SOLVED (MG/L AS SO4) (00945) 18.0 22.0 23.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .44 .20	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.90 2.00	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .53 .27	GEN, TOTAL (MG/L AS N) (00600) 2.5 2.3
SEP 2000 29 DEC 11 JAN 2001 18 FEB 06 26 APR 02	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 3 4 10	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 15.0 17.0	DIS- SOLVED (MG/L AS SO4) (00945) 18.0 22.0 23.0 20.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 64 73 79 76	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 .060 .029 .137	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .44 .20 .69	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .62 .33 .83 .47	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.90 2.00 .770	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 .010 <.010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .53 .27 .80	GEN, TOTAL (MG/L AS N) (00600) 2.5 2.3 1.6
SEP 2000 29 DEC 11 JAN 2001 18 FEB 06 26 APR 02 JUN 11	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 3 4 10 10 6	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 15.0 17.0 20.0	DIS- SOLVED (MG/L AS SO4) (00945) 18.0 22.0 23.0 20.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 64 73 79 76 75	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 .060 .029 .137 .068	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .44 .20 .69	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .62 .33 .83 .47 .58	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 760	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.90 2.00 .770 1.70 2.30	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 .010 <.010 <.010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) .35 .14 .66	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .53 .27 .80 .33 .51	GEN, TOTAL (MG/L AS N) (00600) 2.5 2.3 1.6 2.2 2.9
SEP 2000 29 DEC 11 JAN 2001 18 FEB 06 26 APR 02 JUN	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 3 4 10 10 6 5	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 15.0 17.0 20.0 17.0 17.0	DIS- SOLVED (MG/L AS SO4) (00945) 18.0 22.0 23.0 20.0 20.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 64 73 79 76 75 78	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 .060 .029 .137 .068 .040	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .44 .20 .69 .38 .34	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .62 .33 .83 .47 .58	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 760	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 1.90 2.00 .770 1.70 2.30 4.20	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 .010 .010 .010 <.010 .010 <.010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) .35 .14 .66 .24 .27	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .53 .27 .80 .33 .51	GEN, TOTAL (MG/L AS N) (00600) 2.5 2.3 1.6 2.2 2.9

NEUSE RIVER BASIN 459

353356077342901 EAST DRAINAGE DITCH (MS2-D1) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC--Continued WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
SEP 2000						
29	<.020	<.010	.060	3.2	100	16.0
DEC 11	<.020	.010	<.020	2.6	40	20.0
JAN 2001 18 FEB	<.020	<.010	.030	2.8	40	24.0
06 26	<.020 <.020	<.010 <.010	.030	2.5 2.6	50 50	17.0 26.0
APR 02 JUN	<.020	<.010	.020	3.1	60	19.0
11	<.020	.010	.070	5.1	80	18.0
JUL 09 AUG	<.020	<.010	<.020	4.4	40	20.0
15	<.020	<.010	.030	4.4	50	24.0