NEUSE RIVER BASIN 467

0209171725 DRAINAGE DITCH (SR1-D1) TO SANDY RUN NEAR WALSTONBURG, NC

LOCATION.--Lat 35°33'58.9, long 77°41'08.6, North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.1 mi east of State Road 1312 and approximately 2 mi south-southeast of Walstonburg.

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 26 OCT	0905	49.4	7.2	80	4.5	273	20.2		70	17.0	6.80	12.0	7.9
24	1100	<.01	2.4	22	6.2	140	11.9	4	38	8.20	4.20	12.0	6.3
DEC 12	1330	E3.7	10.8	104	5.6	228	13.3	61	66	16.0	6.40	6.20	8.7
JAN 2001 18 FEB	1230	E1.8	12.7	110	5.8	185	9.0	42	56	14.0	5.00	5.00	7.9
05 27 MAR	1515 1100	E3.4 5.9	12.9 14.4	120 128	5.9 5.5	182 208	11.9 10.7	37 52	50 61	12.0 15.0	4.80 5.60	6.10 4.90	7.7 8.7
05	1210	15.8	12.3	113	5.4	224	11.0	59	65	16.0	6.00	5.90	8.6
APR 02	1250	40.0	9.2	93	4.9	269	16.2	74	77	19.0	7.10	7.40	8.2
MAY 03	1645	E.05	3.0	35	6.2	173	24.7	21	46	11.0	4.50	8.30	6.7
JUN 12 JUL	1150	5.6	5.2	63	5.8	229	24.2	53	65	15.0	6.60	6.80	8.7
11 AUG	0955	E1.1	2.8	34	6.4	187	25.3	13	48	11.0	5.00	10.0	7.2
14	1205	E2.0	5.9	71	5.9	87	24.7		18	4.20	1.80	9.50	2.2
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)
DATE SEP 2000 26	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 26 OCT	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 26 OCT 24 DEC	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0	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) <.010	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 26 OCT 24 DEC 12 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 26 OCT 24 DEC 12 JAN 2001 18 FEB	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 34 6 14	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0 31.0	DIS- SOLVED (MG/L AS SO4) (00945) 13.0 10.0 13.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 3.90 .050	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .51 .51 .31 .27	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .67 7.1 .47	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 9.27 4.64	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 12.0 <.020 9.30 4.70	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 .030 .060	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) .42 1.2 .26	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .58 3.2 .42	GEN, TOTAL (MG/L AS N) (00600) 13 9.8 5.5
SEP 2000 26 OCT 24 DEC 12 JAN 2001 18 FEB 05 27	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 34 6	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0	DIS- SOLVED (MG/L AS SO4) (00945) 13.0 10.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 3.90	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .51 .51	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .67 7.1	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 12.0 <.020 9.30	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) .58	GEN, TOTAL (MG/L AS N) (00600)
SEP 2000 26 OCT 24 DEC 12 JAN 2001 18 FEB 05 27 MAR 05	LINITY WAT. DIS FET LAB CACO3 (MG/L) (29801) 34 6 14 13	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0 31.0 23.0	DIS- SOLVED (MG/L AS SO4) (00945) 13.0 10.0 13.0 16.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 92 126 100 94	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 3.90 .050 .018	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .51 .51 .31 .27	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .67 7.1 .47 .78	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 9.27 4.64 4.18	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 12.0 <.020 9.30 4.70 4.20	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010 .030 .060	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) .42 1.2 .26 .25	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .58 3.2 .42 .76	GEN, TOTAL (MG/L AS N) (00600) 13 9.8 5.5
SEP 2000 26 OCT 24 DEC 12 JAN 2001 18 FEB 05 27	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 34 6 14 13 9	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0 31.0 23.0 24.0 26.0	DIS- SOLVED (MG/L AS SO4) (00945) 13.0 10.0 13.0 16.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 92 126 100 94 114	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 3.90 .050 .018 .022 .022	GEN, AM- MONTA + ORGANIC DIS. (MG/L AS N) (00623) .51 .51 .31 .27 .43 <.20	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .67 7.1 .47 .78 .99 .48	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 9.27 4.64 4.18 7.29	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 12.0 <.020 9.30 4.70 4.20 7.30	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 .030 .060 .020 .010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) .42 1.2 .26 .25	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .58 3.2 .42 .76 .97 .46	GEN, TOTAL (MG/L AS N) (00600) 13 9.8 5.5 5.2 7.8
SEP 2000 26 OCT 24 DEC 12 JAN 2001 18 FEB 05 27 MAR 05 APR 02	LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801) 34 6 14 13 9 6	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0 31.0 23.0 24.0 26.0	DIS- SOLVED (MG/L AS SO4) (00945) 13.0 10.0 13.0 16.0 16.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 3.90 .050 .018 .022 .022	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .51 5.1 .31 .27 .43 <.20 .66	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .67 7.1 .47 .78 .99 .48 .86	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 9.27 4.64 4.18 7.29 9.28	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 12.0 <.020 9.30 4.70 4.20 7.30 9.30	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 .030 .060 .020 .010 .020	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) .42 1.2 .26 .25 .41	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .58 3.2 .42 .76 .97 .46	GEN, TOTAL (MG/L AS N) (00600) 13 9.8 5.5 5.2 7.8
SEP 2000 26 OCT 24 DEC 12 JAN 2001 18 FEB 05 27 MAR 05 APR 02 MAY 03 JUN 12	LINITY WAT. DIS FET LAB CACO3 (MG/L) (29801) 34 6 14 13 9 6 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0 31.0 23.0 24.0 26.0 35.0	DIS- SOLVED (MG/L AS SO4) (00945) 13.0 10.0 13.0 16.0 16.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 92 126 100 94 114 125 149	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 3.90 .050 .018 .022 .022 .342 .038	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .51 5.1 .31 .27 .43 <.20 .66 .28	GEN,AM-MONIA + MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .67 7.1 .47 .78 .99 .48 .86 .41	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 9.27 4.64 4.18 7.29 9.28 13.0	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 12.0 <.020 9.30 4.70 4.20 7.30 9.30 13.0	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 .030 .060 .020 .010 .020 .010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) . 42 1.2 .26 .25 .41 .32	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .58 3.2 .42 .76 .97 .46	GEN, TOTPAL (MG/L AS N) (00600) 13 9.8 5.5 5.2 7.8 10
SEP 2000 26 OCT 24 DEC 12 JAN 2001 18 FEB 05 27 MAR 05 APR 02 MAY 03 JUN	LINITY WAT. DIS FET LAB CACO3 (MG/L) (29801) 34 6 14 13 9 6 3 25	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 37.0 26.0 31.0 23.0 24.0 26.0 27.0 35.0	DIS- SOLVED (MG/L AS SO4) (00945) 13.0 10.0 13.0 16.0 13.0 16.0 19.9	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 92 126 100 94 114 125 149 83	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .090 3.90 .050 .018 .022 .022 .342 .038 .508	GEN, AM- MONTA + ORGANIC DIS. (MG/L AS N) (00623) .51 5.1 .31 .27 .43 <.20 .66 .28 .92	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .67 7.1 .47 .78 .99 .48 .86 .41 1.9	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 9.27 4.64 4.18 7.29 9.28 13.0 .210	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 12.0 <.020 9.30 4.70 4.20 7.30 9.30 13.0 .240	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 .030 .060 .020 .010 .020 .010 .030	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607) . 42 1.2 .26 .25 .41 .32 .24	GEN, ORGANIC TOTAL (MG/L AS N) (00605) .58 3.2 .42 .76 .97 .46 .52	GEN, TOTAL (MG/L AS N) (00600) 13 9.8 5.5 5.2 7.8 10 13 2.1

468 NEUSE RIVER BASIN

0209171725 DRAINAGE DITCH (SR1-D1) TO SANDY RUN NEAR WALSTONBURG, NC--Continued WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	SOLVED (MG/L AS P)	DIS- SOLVED (MG/L AS P)	TOTAL (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	DIS- SOLVED (UG/L AS FE)	SOLVED (UG/L AS MN)
SEP 2000						
26 OCT	<.020	<.010	.030	<.10	90	34.0
24	<.020	<.010	.320	7.1	110	33.0
DEC 12	<.020	.020	<.020	1.6	60	39.0
JAN 2001 18 FEB	<.020	<.010	.040	2.3	50	24.0
05	<.020	<.010	.040	3.8	110	20.0
27 MAR	<.020	<.010	<.020	3.0	80	27.0
05	<.020	<.010	.020	3.2	80	31.0
APR 02	<.020	<.010	<.020	2.9	100	36.0
MAY 03	<.020	<.010	.150	6.5	100	33.0
JUN 12	<.020	.040	.090	2.6	20	41.0
JUL 11	.020	<.010	.360	8.2	60	45.0
AUG 14	.030	.030	.580	9.2	200	10.0