

NEUSE RIVER BASIN

353351077342001 TILE DRAIN (MS2-T1) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC

LOCATION.--Lat 35°33'51.0", long 77°34'19.9", 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.--Not applicable.

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 subsurface tile drains 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 SATURATION) (00301)	PH WATER FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS NONCARB LAB AS CAC03 (MG/L) (00905)	HARDNESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNESIUM, DIS-SOLVED (MG/L) (00925)	POTASSIUM, DIS-SOLVED (MG/L) (00935)	SODIUM, DIS-SOLVED (MG/L) (00930)
SEP 2000													
29...	0755	7.4	5.1	58	4.3	117	21.6	--	29	7.10	2.80	3.30	2.3
DEC 11...	1155	4.5	8.4	74	4.6	112	10.0	30	33	8.10	3.10	2.70	2.7
JAN 2001													
18...	1405	.08	10	84	4.6	125	8.1	33	36	9.10	3.20	4.50	3.0
FEB 06...	1115	1.6	9.9	84	4.5	125	8.2	--	36	9.10	3.20	4.00	3.0
26...	1235	5.6	7.5	65	4.3	124	9.5	--	35	8.70	3.20	2.80	2.9
APR 02...	1830	13.3	6.4	59	4.2	132	11.6	--	37	9.20	3.50	3.10	2.8
JUN 11...	1635	.35	7.5	86	4.3	155	21.6	--	41	10.0	3.90	4.90	3.2
JUL 09...	1640	.92	5.6	66	4.4	153	23.0	--	40	9.80	3.80	5.20	2.9
AUG 15...	1305	5.6	6.3	76	4.1	139	24.2	--	35	8.60	3.30	3.60	2.5

DATE	ALKALINITY WAT.DIS FET LAB CAC03 (MG/L) (29801)	CHLORIDE, DIS-SOLVED (MG/L) (00940)	SULFATE DIS-SOLVED (MG/L) (00945)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITROGEN, ORGANIC DIS-SOLVED (MG/L) (00607)	NITROGEN, ORGANIC TOTAL (MG/L) (00605)	NITROGEN, TOTAL (MG/L) (00600)	PHOSPHORUS DIS-SOLVED (MG/L) (00666)
SEP 2000													
29...	--	15.0	13.0	--	.040	.47	.42	1.60	<.010	.43	.38	2.0	<.020
DEC 11...	3	14.0	14.0	55	<.010	<.20	.21	1.90	<.010	--	--	2.1	<.020
JAN 2001													
18...	3	15.0	19.0	62	<.010	<.20	.81	1.50	<.010	--	--	2.3	<.020
FEB 06...	--	15.0	17.0	--	.016	.22	<.20	2.00	<.010	.20	--	--	<.020
26...	--	15.0	14.0	--	<.010	.25	.28	3.00	<.010	--	--	3.3	<.020
APR 02...	--	14.0	12.0	--	<.010	.22	.27	4.60	<.010	--	--	4.9	<.020
JUN 11...	--	19.0	11.0	--	<.010	.35	.43	5.10	<.010	--	--	5.5	<.020
JUL 09...	--	21.0	12.0	--	<.010	.34	.30	3.90	<.010	--	--	4.2	<.020
AUG 15...	--	20.0	9.8	--	<.010	.28	.30	2.70	<.010	--	--	3.0	<.020

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

DATE	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...	<.010	<.020	3.2	30	9.0
DEC					
11...	<.010	<.020	2.4	10	11.0
JAN 2001					
18...	<.010	<.020	2.2	20	12.0
FEB					
06...	<.010	<.020	2.3	10	12.0
26...	<.010	<.020	1.7	10	12.0
APR					
02...	<.010	<.020	2.7	10	12.0
JUN					
11...	<.010	<.020	3.1	20	13.0
JUL					
09...	<.010	<.020	4.2	20	13.0
AUG					
15...	<.010	<.020	3.4	20	11.0