

NEUSE RIVER BASIN

353308077340301 TILE DRAIN (MS3-T1) NEAR TRIBUTARY TO MIDDLE SWAMP NEAR MARLBORO, NC

LOCATION.--Lat 35°33'08.0", long 77°34'03.4", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.9 mi south of U.S. Highway 264A and 2.4 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, (PER-CENT SATURATION) (00301)	PH WATER FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKALINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)
SEP 2000													
27...	1410	42.4	5.9	68	4.0	244	22.2	60	15.0	5.40	10.0	5.1	<1
OCT 24...	1750	.72	8.4	89	4.2	268	18.9	65	16.0	6.20	7.10	6.4	--
DEC 11...	1530	3.5	9.4	87	4.4	220	11.8	58	14.0	5.50	6.00	5.1	--
FEB 2001													
06...	1000	.59	10.7	92	4.5	237	9.1	68	18.0	5.60	5.70	5.6	<1
27...	0955	4.2	10	89	4.3	217	10.7	57	14.0	5.40	5.60	5.3	--
MAR 05...	1745	13.3	5.5	51	4.3	213	11.1	56	14.0	5.20	5.80	5.2	--
APR 03...	1515	11.5	5.2	49	4.2	211	12.2	57	14.0	5.30	6.00	5.2	--
JUN 14...	1900	7.2	7.2	83	4.2	223	21.5	55	13.0	5.40	10.0	4.5	--
JUL 09...	1830	8.3	6.6	77	4.2	220	22.0	53	13.0	5.10	7.50	5.5	--
AUG 14...	1755	13.5	6.4	76	4.0	339	23.3	91	24.0	7.50	9.00	7.0	--

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)
SEP 2000													
27...	20.0	18.0	.010	.49	.48	13.0	<.010	.48	.47	13	<.020	<.010	<.020
OCT 24...	26.0	14.0	.050	.20	<.20	15.0	<.010	.15	--	--	<.020	<.010	<.020
DEC 11...	23.0	16.0	<.010	.23	.27	10.0	<.010	--	--	10	<.020	<.010	<.020
FEB 2001													
06...	25.0	17.0	<.010	.22	.22	11.0	<.010	--	--	11	<.020	<.010	<.020
27...	22.0	15.0	.018	.25	.26	9.20	<.010	.23	.24	9.5	<.020	<.010	<.020
MAR 05...	21.0	16.0	.020	.29	.29	9.80	<.010	.27	.27	10	<.020	.010	<.020
APR 03...	21.0	15.0	<.010	.31	.25	10.0	<.010	--	--	10	<.020	<.010	<.020
JUN 14...	20.0	14.0	.014	.35	.46	12.0	<.010	.34	.45	12	<.020	<.010	<.020
JUL 09...	23.0	13.0	.018	<.20	.29	9.80	<.010	--	.27	10	<.020	<.010	<.020
AUG 14...	29.0	19.0	<.010	.55	.65	20.0	<.010	--	--	21	<.020	<.010	<.020

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

DATE	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			
27...	2.6	M	18.0
OCT			
24...	1.9	<2	25.0
DEC			
11...	1.9	M	21.0
FEB 2001			
06...	1.7	<2	24.0
27...	2.0	<2	21.0
MAR			
05...	2.6	<2	20.0
APR			
03...	2.8	<2	21.0
JUN			
14...	2.9	M	17.0
JUL			
09...	2.7	M	20.0
AUG			
14...	3.6	10	24.0