

NEUSE RIVER BASIN

353110077330901 TILE DRAIN (MS4-T1) MIDDLE SWAMP TRIBUTARY NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'09.6", long 77°33'08.9", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.25 mi east of State Road 1345 and 1.1 mi west-northwest of Willow Green.

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 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)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP 2000													
28...	1345	4.0	8.0	91	4.2	143	21.4	39	11.0	2.70	2.90	5.1	12.0
DEC													
11...	1630	1.4	9.8	89	4.5	155	11.0	42	12.0	3.00	2.20	5.3	12.0
JAN 2001													
17...	0800	.20	11.2	95	4.4	150	8.6	45	13.0	3.00	1.80	4.9	11.0
FEB													
06...	1440	.25	10.8	94	4.7	152	9.6	45	13.0	3.10	1.80	4.9	10.0
26...	1620	4.9	10.1	90	4.2	161	10.2	45	13.0	3.00	2.20	5.5	12.0
APR													
03...	1140	6.8	9.4	87	4.3	168	12.0	46	13.0	3.20	2.40	5.2	11.0
JUN													
11...	1310	.42	8.4	95	4.4	162	21.3	45	13.0	3.10	2.40	5.0	11.0
14...	1545	1.8	7.8	88	4.3	169	20.6	46	13.0	3.30	3.20	4.6	10.0
JUL													
10...	1025	1.8	7.5	87	4.0	164	22.5	42	12.0	2.90	2.80	5.4	12.0
AUG													
15...	0745	16.8	6.1	72	4.1	186	23.6	46	13.0	3.30	4.10	4.6	9.7

DATE	SULFATE DIS-SOLVED (MG/L AS S04) (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, 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)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000													
28...	19.0	<.010	<.20	<.20	6.40	<.010	--	<.020	<.010	<.020	1.4	M	19.0
DEC													
11...	18.0	<.010	<.20	<.20	6.80	<.010	--	<.020	<.010	<.020	1.1	<2	18.0
JAN 2001													
17...	20.0	<.010	<.20	<.20	7.00	<.010	--	<.020	<.010	<.020	.80	<2	16.0
FEB													
06...	19.0	.011	<.20	<.20	7.00	<.010	--	<.020	<.010	<.020	1.9	M	16.0
26...	21.0	<.010	<.20	.21	6.80	<.010	7.0	<.020	<.010	<.020	2.0	<2	21.0
APR													
03...	21.0	.013	<.20	<.20	7.70	<.010	--	<.020	<.010	<.020	1.5	M	22.0
JUN													
11...	17.0	.013	<.20	<.20	8.50	<.010	--	<.020	<.010	<.020	2.2	<2	17.0
14...	17.0	<.010	.23	.20	9.50	<.010	9.7	<.020	<.010	<.020	1.9	<2	21.0
JUL													
10...	16.0	.018	<.20	<.20	8.10	<.010	--	<.020	<.010	<.020	.80	<2	18.0
AUG													
15...	17.0	<.010	.20	.22	11.0	<.010	11	<.020	<.010	<.020	1.7	M	25.0