

NEUSE RIVER BASIN

353125077332501 TILE DRAIN (MS4-T2) MIDDLE SWAMP TRIBUTARY NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'25.2", long 77°33'24.5", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.1 mi west of State Road 1345 and 1.5 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, (PER-CENT SATURATION) (00301)	PH WATER FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L 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...	1450	15.3	6.2	70	4.0	497	21.4	100	26.0	9.20	19.0	21.0	49.0
DEC 12...	1000	14.1	9.2	85	4.3	484	12.0	110	28.0	9.50	13.0	20.0	54.0	
FEB 2001	26...	1420	6.7	7.6	70	4.0	463	11.5	110	27.0	9.50	11.0	20.0	52.0
MAR 05...	1610	15.7	8.2	74	4.1	476	10.4	110	28.0	9.90	11.0	21.0	53.0	
APR 03...	0955	7.3	9.0	81	4.0	446	11.1	100	26.0	9.30	10.0	18.0	49.0	
JUN 14...	1800	44.1	6.9	76	4.0	642	19.6	140	36.0	12.0	28.0	26.0	72.0	
JUL 10...	0915	7.4	5.7	67	3.7	515	22.7	110	27.0	9.60	17.0	22.0	59.0	
AUG 15...	1000	27.0	5.3	61	3.9	558	22.7	110	28.0	9.70	26.0	24.0	65.0	

DATE	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)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	
SEP 2000	10.0	.020	.44	.51	33.0	<.010	.42	.49	34	<.020	<.010	<.020	2.4	
DEC 12...	9.4	.030	<.20	.22	30.0	<.010	--	.19	30	<.020	.020	<.020	1.6	
FEB 2001	26...	8.3	.014	.22	.29	29.0	<.010	.21	.28	29	<.020	<.010	.020	1.7
MAR 05...	9.8	.072	.35	.33	30.0	<.010	.28	.26	30	<.020	<.010	<.020	3.2	
APR 03...	9.2	.012	.26	.37	29.0	<.010	.25	.36	29	<.020	.010	<.020	1.6	
JUN 14...	17.0	.033	.88	1.1	43.0	<.010	.85	1.1	44	.020	.010	.050	4.1	
JUL 10...	10.0	.058	.31	.33	32.0	<.010	.25	.27	32	<.020	.010	<.020	.40	
AUG 15...	12.0	.211	.90	1.0	35.0	<.010	.69	.79	36	<.020	.020	.020	4.0	

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000		
28...	M	49.0
DEC 12...	M	57.0
FEB 2001		
26...	M	57.0
MAR 05...	M	58.0
APR 03...	M	57.0
JUN 14...	10	60.0
JUL 10...	M	57.0
AUG 15...	20	51.0