

353220077392401 TILE DRAIN (SR3-T1) AT DITCH TO SANDY RUN NEAR CASTORIA, NC

LOCATION.--Lat 35°32'19.5", long 77°39'23.5", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.1 mi south of State Road 1324 and approximately 1 mi east-northeast of Castoria.

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 NONCARB LAB AS CAC03 (MG/L) (00905)	HARDNESS TOTAL (MG/L AS CAC03) (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)	
SEP 2000	26...	1615	27.1	4.3	49	4.2	198	22.1	--	52	15.0	3.50	9.40	3.0
OCT	23...	1815	.14	9.5	101	4.7	274	19.0	76	78	23.0	5.10	10.0	5.7
DEC	12...	1555	4.5	9.0	81	4.7	266	11.3	79	81	24.0	5.20	6.40	5.3
JAN 2001	17...	1145	.19	10.6	92	4.3	295	9.2	--	89	26.0	5.90	8.10	6.1
FEB	05...	1315	.14	10.4	92	4.7	298	9.7	86	88	26.0	5.70	8.80	6.2
	27...	1515	2.9	9.6	85	4.2	267	10.1	76	78	23.0	5.00	6.30	5.6
MAR	05...	1415	7.3	8.9	81	4.5	262	10.4	--	--	--	--	--	--
APR	03...	1330	6.4	8.8	81	4.4	272	11.4	--	79	23.0	5.30	6.90	5.1
JUN	11...	0950	.70	8.0	90	4.3	301	20.9	--	85	25.0	5.40	9.10	5.9
JUL	10...	1255	.10	7.2	87	4.0	329	24.5	--	92	27.0	6.00	12.0	6.2

DATE	ALKALINITY WAT.DIS FET LAB CAC03 (MG/L) (29801)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	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)	
SEP 2000	26...	--	29.0	16.0	--	.020	.43	.46	4.20	<.010	.41	.44	4.7	<.020
OCT	23...	2	48.0	23.0	134	<.010	.32	.36	4.00	<.010	--	--	4.4	<.020
DEC	12...	2	43.0	25.0	133	.170	.36	.40	5.10	<.010	.19	.23	5.5	<.020
JAN 2001	17...	--	52.0	24.0	--	<.010	.30	<.20	5.80	<.010	--	--	--	<.020
FEB	05...	2	52.0	24.0	148	<.010	.22	.22	5.50	<.010	--	--	5.7	<.020
	27...	2	42.0	23.0	132	.168	.44	.37	5.90	<.010	.27	.20	6.3	<.020
MAR	05...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR	03...	--	39.0	21.0	--	.136	.44	.40	8.70	<.010	.30	.26	9.1	<.020
JUN	11...	--	46.0	20.0	--	.028	.36	.32	9.40	<.010	.33	.29	9.7	<.020
JUL	10...	--	52.0	19.0	--	.015	.29	.23	9.60	<.010	.27	.22	9.8	<.020

NEUSE RIVER BASIN

353220077392401 TILE DRAIN (SR3-T1) AT DITCH TO SANDY RUN NEAR CASTORIA, NC--Continued

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					
26...	.020	.030	3.1	70	26.0
OCT					
23...	<.010	<.020	2.3	40	39.0
DEC					
12...	.020	<.020	2.8	30	37.0
JAN 2001					
17...	<.010	<.020	2.0	30	45.0
FEB					
05...	<.010	<.020	2.3	20	43.0
27...	<.010	<.020	2.8	20	39.0
MAR					
05...	--	--	--	--	--
APR					
03...	<.010	<.020	2.3	10	39.0
JUN					
11...	<.010	<.020	2.6	20	40.0
JUL					
10...	<.010	<.020	1.8	30	43.0