

NEUSE RIVER BASIN

352053077483001 TILE DRAIN (BC1-T1) TO BEAR CREEK TRIBUTARY NEAR SHADE TOWN, NC

LOCATION.--Lat 35°20'53.2", long 77°48'30.1", North American Datum of 1983, Lenoir County, Hydrologic Unit 03020202, at State Road 1501 and 0.35 mi west of Shadetown.

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)
AUG 2000													
29...	1210	6.1	5.2	60	4.5	174	21.4	48	51	14.0	3.90	5.50	3.5
SEP 25...	1810	E10.1	5.4	63	4.6	230	22.5	64	67	17.0	6.00	7.30	4.3
OCT 23...	1530	E.22	8.6	92	5.0	155	19.3	42	47	13.0	3.60	5.30	3.8
DEC 13...	1020	E4.1	8.5	76	5.0	177	11.2	54	57	15.0	4.70	4.50	3.8
FEB 2001													
28...	1045	E.72	8.5	78	4.6	174	11.4	52	56	15.0	4.40	4.60	4.0
APR 04...	0940	E.90	7.8	72	4.8	189	12.1	56	61	16.0	5.00	5.40	4.0
MAY 03...	1130	E.27	8.2	87	5.3	164	18.4	46	49	13.0	4.00	5.60	4.2
JUN 12...	1320	E1.1	8.3	97	5.1	189	22.6	56	59	16.0	4.60	5.60	3.9
JUL 11...	1150	E1.2	7.0	85	4.9	204	23.9	61	65	18.0	4.80	6.90	4.0
AUG 16...	1305	E1.1	4.1	49	4.6	177	24.2	49	54	15.0	4.10	6.00	3.7
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-SOLVED (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)
AUG 2000													
29...	3	12.0	23.0	94	.010	.42	.51	6.70	<.010	.41	.50	7.2	.150
SEP 25...	3	13.0	30.0	128	.020	.41	.44	11.0	<.010	.39	.42	11	.130
OCT 23...	5	12.0	26.0	84	.020	.45	.47	3.80	<.010	.43	.45	4.3	.130
DEC 13...	3	14.0	29.0	95	.030	<.20	<.20	5.00	<.010	--	--	--	.100
FEB 2001													
28...	3	13.0	26.0	96	.028	.32	.27	6.00	<.010	.29	.24	6.3	.090
APR 04...	4	14.0	26.0	106	.017	.33	.40	7.40	<.010	.31	.38	7.8	.100
MAY 03...	3	15.0	29.0	87	.029	.32	.32	3.10	<.010	.29	.29	3.4	.090
JUN 12...	3	15.0	24.0	105	.024	.34	.34	7.50	<.010	.32	.32	7.8	.100
JUL 11...	4	17.0	24.0	114	.024	.38	.52	8.20	<.010	.36	.50	8.7	.140
AUG 16...	5	18.0	27.0	93	.026	.23	.33	3.50	<.010	.20	.30	3.8	.140

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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)
AUG 2000					
29...	.110	.260	3.6	40	44.0
SEP					
25...	.080	.120	2.7	60	52.0
OCT					
23...	.090	.190	3.1	200	44.0
DEC					
13...	.060	.120	2.6	90	53.0
FEB 2001					
28...	.080	.110	2.3	90	49.0
APR					
04...	.070	.110	3.2	80	51.0
MAY					
03...	.070	.140	2.8	180	47.0
JUN					
12...	.130	.120	2.0	100	50.0
JUL					
11...	.120	.230	3.4	110	55.0
AUG					
16...	.100	.150	3.4	130	49.0