

## 02091734 NORTH DRAINAGE DITCH (MS4-D2) NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'28.9", long 77°33'05.4", Greene County, Hydrologic Unit 03020203, approximately 0.2 mi east of Secondary Road 1345 and 1.3 mi west-northwest of Willow Green.

DRAINAGE AREA.-- Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001, February 2003 to September 2003.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources to examine nutrient loadings from field drainage ditches as part of the Lizzie research site water-quality monitoring project.

## WATER-QUALITY DATA, FEBRUARY TO SEPTEMBER 2003

Date	Time	Flow rate, instantaneous gal/min (00059)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
FEB														
08...	1335	19.2	768	11.4	98	4.7	483	--	9.1	120	29.4	10.1	18.6	
18...	1545	78.9	--	10.2	--	4.5	416	--	9.5	--	--	--	--	
MAR														
07...	1715	99.5	772	8.8	73	5.1	309	--	8.5	80	20.1	7.27	16.9	
21...	1640	211	756	9.2	90	4.8	303	--	14.7	--	--	--	--	
APR														
08...	1235	21.7	775	11.0	100	5.1	244	11.0	11.9	59	14.5	5.59	9.14	
MAY														
06...	1220	107	763	8.2	93	5.6	328	27.0	20.8	71	17.9	6.28	22.8	
20...	1550	44.9	772	7.5	84	5.7	242	28.0	20.8	--	--	--	--	
JUN														
04...	1525	35.9	762	8.2	90	5.6	226	27.0	20.0	62	15.3	5.88	8.84	
JUL														
02...	1600	166	763	8.3	93	5.3	463	27.5	21.0	--	--	--	--	
AUG														
22...	0955	33.3	767	8.1	92	5.5	255	30.0	22.3	61	15.2	5.73	12.4	
Date		Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Organic nitrogen, water, unfltrd mg/L (00605)
FEB														
08...	19.8	<2	56.5	--	15.5	--	0.51	0.50	0.17	27.6	0.008	0.34	0.34	
18...	--	--	--	--	--	--	--	--	--	--	--	--	--	
MAR														
07...	13.7	<2	39.1	--	17.1	--	0.49	0.71	0.07	20.1	<0.008	0.42	0.64	
21...	--	--	--	--	--	--	0.86	1.4	0.25	15.9	E.007	0.61	1.2	
APR														
08...	9.77	<2	28.7	--	12.4	--	0.34	0.39	0.06	12.2	E.007	0.28	0.33	
MAY														
06...	13.2	2	30.7	5.7	13.3	196	0.77	1.6	0.13	19.2	E.007	0.64	1.4	
20...	--	--	--	--	--	--	--	--	--	14.3	--	--	--	
JUN														
04...	8.92	<2	25.1	--	12.9	--	0.27	0.44	0.05	12.3	<0.008	0.22	0.39	
JUL														
02...	--	--	--	--	--	--	0.79	1.8	E.04	30.9	E.004	--	--	
AUG														
22...	9.11	<2	26.0	--	14.3	--	0.37	0.46	0.06	13.7	E.005	0.31	0.40	

02091734 NORTH DRAINAGE DITCH (MS4-D2) NEAR WILLOW GREEN, NC—Continued

## WATER-QUALITY DATA, FEBRUARY TO SEPTEMBER 2003

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)
FEB							
08...	<0.02	0.009	0.026	28	28	--	84
18...	--	--	--	--	--	--	--
MAR							
07...	<0.02	0.008	0.072	21	21	2.5	54
21...	<0.02	0.009	0.167	17	17	--	--
APR							
08...	<0.02	0.005	0.024	13	13	--	104
MAY							
06...	<0.02	0.009	0.20	20	21	--	113
20...	--	--	--	--	--	--	--
JUN							
04...	--	E.003	0.056	13	13	1.5	99
JUL							
02...	<0.09	0.014	0.27	32	33	--	--
AUG							
22...	<0.02	0.006	0.032	14	14	--	81