

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2002 to November 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 2002 to November 2003.

INSTRUMENTATION.--Logging pressure transducer with water temperature probe.

REMARKS.--Station operated as part of NAWQA Urban Land Use Gradient study.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 32.8°C, Aug. 5, 2002; minimum recorded, 0.0°C, Jan. 13, 18, 19, 22-27, 2003.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	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, water, deg C (00010)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
FEB 19...	1030	9	E7.9	753	11.8	91	7.0	182	4.1	36.5	9.1	0.52	<0.04
FEB 20...	0830	9	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	1000	D	E1.7	--	6.6	--	7.0	129	17.3	--	--	--	--
JUN 11...	0850	9	--	--	6.5	--	6.9	109	20.3	--	--	--	--
JUL 01...	1020	9	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	0915	9	E1.4	747	6.2	73	6.5	130	22.3	6.01	4.4	0.33	<0.04
Date	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd total, mg/L (00688)	Organic carbon, suspnd total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
FEB 19...	--	--	0.32	--	E.004	<0.02	0.08	0.054	0.84	0.7	<0.1	0.7	6.4
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	0.593	0.13	0.15	0.049	0.015	<0.02	0.07	0.044	0.48	0.6	<0.1	0.6	4.8
Date	Biomass periphyton, ashfree drymass g/m2 (49954)	Periphyton biomass ash weight, g/m2 (00572)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)	Pheophytin a, periphyton, mg/m2 (62359)	E coli, modif. m-TEC, water, col/100 mL (90902)	Chlorophyll a periphyton, chromofluoro, mg/m2 (70957)	1-Naphthol, water, fltrd 0.7u GF (49295)	2,6-Diethyl-aniline water, fltrd 0.7u GF (82660)	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, ug/L (61615)	2Chloro-2,6-' diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)
FEB 19...	--	--	--	--	--	--	--	<0.09	<0.006	<0.1	<0.005	<0.006	<0.004
FEB 20...	--	--	--	--	--	130	--	--	--	--	--	--	--
MAY 13...	4.800	51	56.00	140	17	--	34.2	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	810	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	<0.09	<0.006	<0.1	<0.005	<0.006	<0.004

02100634 VESTAL CREEK NEAR ASHEBORO, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	4Chloro-2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF ug/L (82673)	Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Chlor-pyri-fos oxon, water, fltrd, ug/L (61636)	Chlor-pyri-fos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Cyflu-thrin, water, fltrd, ug/L (61585)
FEB 19...	<0.004	<0.006	<0.006	<0.004	E.005	<0.02	<0.050	<0.010	E.003	<0.06	<0.005	<0.006	<0.008
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	<0.004	<0.006	<0.006	<0.004	<0.008	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008
Date	Cy-per-methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diaz-inon oxon, water, fltrd, ug/L (61638)	Diazi-non, water, fltrd, ug/L (39572)	Dicro-tophos, water, fltrd, ug/L (38454)	Diel-drin, water, fltrd, ug/L (39381)	Dimeth-oate, water, fltrd, 0.7u GF (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenami-phos sulfone water, fltrd, ug/L (61645)	Fenami-phos sulf-oxide, water, fltrd, ug/L (61646)	Fenami-phos, water, fltrd, ug/L (61591)
FEB 19...	<0.009	<0.003	<0.004	<0.04	0.010	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	<0.009	<0.003	<0.004	<0.01	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.031	<0.03	<0.03
Date	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexa-zinone, water, fltrd, ug/L (04025)	Ipro-dione, water, fltrd, ug/L (61593)	Isofen-phos, water, fltrd, ug/L (61594)	Mal-a-oxon, water, fltrd, ug/L (61652)	Mal-a-thion, water, fltrd, ug/L (39532)	Meta-laxyl, water, fltrd, ug/L (61596)	Methi-althon water, fltrd, ug/L (61598)
FEB 19...	<0.009	<0.005	<0.005	E.005	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.005	<0.006
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	<0.009	<0.005	<0.006	E.005	<0.002	<0.003	0.039	<1	<0.003	<0.008	<0.027	<0.005	<0.006
Date	Methyl para-oxon, water, fltrd, ug/L (61664)	Methyl para-thion, water, fltrd 0.7u GF (82667)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Myclo-butanil water, fltrd, ug/L (61599)	Pendi-meth-alin, water, fltrd 0.7u GF (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome-ton, water, fltrd, ug/L (04037)	Prome-tryn, water, fltrd, ug/L (04036)	Pron-amide, water, fltrd 0.7u GF (82676)
FEB 19...	<0.03	<0.006	E.012	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01	<0.005	<0.004
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	0.03	<0.005	<0.004

CAPE FEAR RIVER BASIN

02100634 VESTAL CREEK NEAR ASHEBORO, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water, fltrd, 0.7u GF ug/L (82670)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd, 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Tri- flur- alin, water, fltrd, 0.7u GF ug/L (82661)	Di- chlor- vos, water, fltrd, ug/L (38775)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
FEB 19...	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	94	17
FEB 20...	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	--	--	--	--
JUL 08...	E.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	94	6

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

Medium codes used in this table:

- 9 -- Surface water
- D -- Plant tissue

TEMPERATURE, WATER, DEGREES CELSIUS  
JULY TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	30.7	23.2	26.0	20.2	19.3	19.7			
2	---	---	---	---	---	---	31.3	22.6	25.2	20.4	19.4	19.9			
3	---	---	---	---	---	---	31.7	21.4	25.0	21.7	19.0	20.3			
4	---	---	---	---	---	---	32.0	20.8	25.2	22.9	20.0	21.5			
5	---	---	---	---	---	---	32.8	20.9	25.5	22.8	21.0	22.0			
6	---	---	---	---	---	---	31.3	21.5	25.1	22.2	19.0	20.7			
7	---	---	---	---	---	---	27.4	17.5	21.9	21.7	19.1	20.5			
8	---	---	---	---	---	---	27.0	17.0	20.8	21.5	18.1	19.9			
9	---	---	---	28.1	20.5	23.7	26.1	16.8	20.5	22.0	19.0	20.2			
10	---	---	---	29.1	22.4	24.9	28.0	17.1	21.2	23.0	19.3	20.9			
11	---	---	---	24.1	20.0	21.9	28.0	18.3	22.3	23.0	19.4	21.0			
12	---	---	---	22.4	19.7	20.9	29.6	19.9	23.8	21.2	18.3	19.5			
13	---	---	---	24.2	19.6	21.6	30.3	20.7	24.5	20.7	17.0	18.9			
14	---	---	---	26.4	21.7	23.3	26.4	20.8	23.6	22.1	19.0	20.2			
15	---	---	---	27.4	21.9	23.7	29.5	22.8	24.4	21.6	21.1	21.3			
16	---	---	---	30.3	21.5	24.8	26.4	22.5	23.8	22.1	21.0	21.5			
17	---	---	---	29.1	21.6	25.0	28.2	22.4	24.4	22.4	21.0	21.7			
18	---	---	---	30.0	22.3	25.7	28.7	22.7	24.9	22.3	21.4	21.8			
19	---	---	---	32.0	22.8	26.2	27.2	22.9	24.6	22.3	21.8	22.0			
20	---	---	---	29.5	22.6	24.8	28.3	22.5	24.6	22.6	21.2	21.8			
21	---	---	---	30.8	21.2	25.1	27.3	22.1	24.2	22.4	20.9	21.7			
22	---	---	---	31.7	21.1	24.4	27.4	23.2	24.9	22.3	21.1	21.8			
23	---	---	---	26.2	23.7	24.7	28.7	23.5	25.5	21.8	20.5	21.3			
24	---	---	---	25.2	23.6	24.4	28.1	23.6	25.2	20.6	19.2	20.0			
25	---	---	---	25.4	23.1	24.0	27.5	23.0	24.3	19.8	19.0	19.4			
26	---	---	---	24.9	23.0	23.9	23.7	22.1	22.9	19.5	18.8	19.2			
27	---	---	---	26.6	23.5	24.8	22.1	21.4	21.8	21.9	19.4	20.6			
28	---	---	---	29.0	23.2	25.7	21.5	20.3	20.8	21.7	20.5	20.9			
29	---	---	---	30.5	24.1	26.5	20.5	19.9	20.3	20.8	19.6	20.2			
30	---	---	---	31.8	23.9	26.7	20.4	19.9	20.1	21.4	18.1	19.6			
31	---	---	---	31.0	23.5	26.3	20.0	19.3	19.8	---	---	---			
MONTH	---	---	---	---	---	---	32.8	16.8	23.5	23.0	17.0	20.7			

02100634 VESTAL CREEK NEAR ASHEBORO, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.3	19.6	20.4	---	---	---	---	---	---	12.6	8.5	11.0
2	21.8	19.4	20.7	---	---	---	---	---	---	11.0	9.7	10.1
3	22.4	20.2	21.3	---	---	---	---	---	---	10.1	8.8	9.8
4	22.5	20.5	21.6	---	---	---	---	---	---	8.8	5.2	7.1
5	23.4	21.2	22.2	---	---	---	4.8	0.9	3.1	7.1	3.9	5.2
6	21.9	19.8	20.8	---	---	---	5.2	4.2	4.7	9.0	4.2	5.9
7	21.3	18.6	20.0	---	---	---	4.9	3.4	4.3	7.4	2.6	4.1
8	19.7	16.4	17.8	15.9	6.5	9.5	5.3	3.6	4.6	8.0	3.6	5.8
9	17.4	16.1	16.8	17.9	7.5	11.1	6.0	4.9	5.4	13.3	5.5	8.4
10	---	---	---	17.6	10.5	14.2	5.4	4.4	4.9	13.6	4.9	7.8
11	---	---	---	17.7	14.9	16.3	6.0	4.5	5.3	10.7	2.7	4.9
12	---	---	---	16.4	14.4	15.6	8.0	6.0	6.9	8.2	1.1	3.0
13	---	---	---	14.4	11.7	13.5	7.3	6.6	6.9	5.6	0.0	2.5
14	---	---	---	13.3	9.3	11.0	8.4	7.2	7.7	6.1	0.5	3.1
15	---	---	---	13.8	7.8	10.7	7.4	5.6	6.5	9.6	0.1	2.9
16	---	---	---	12.9	11.4	12.1	8.6	4.8	6.7	3.7	0.1	1.8
17	---	---	---	13.0	11.6	12.6	8.5	4.6	6.2	8.0	0.2	2.4
18	---	---	---	11.6	9.2	10.4	9.0	5.5	6.9	6.6	0.0	1.4
19	---	---	---	10.4	7.6	9.1	8.2	6.7	7.4	6.9	0.0	1.9
20	---	---	---	10.8	7.1	9.0	11.4	8.2	10.5	11.4	0.5	3.8
21	---	---	---	---	---	---	10.0	6.1	8.1	3.1	0.6	2.0
22	---	---	---	---	---	---	11.0	6.2	7.8	8.6	0.0	2.2
23	---	---	---	---	---	---	10.0	4.9	6.9	4.0	0.0	1.6
24	---	---	---	---	---	---	7.7	5.9	6.8	6.3	0.0	2.6
25	---	---	---	---	---	---	7.8	6.6	7.3	8.7	0.0	2.7
26	---	---	---	---	---	---	6.6	4.7	5.7	5.0	0.0	1.6
27	---	---	---	---	---	---	5.5	3.1	4.3	6.3	0.0	1.3
28	---	---	---	---	---	---	6.9	2.2	3.9	7.9	0.1	2.5
29	---	---	---	---	---	---	7.9	2.7	4.8	6.2	0.9	4.2
30	---	---	---	---	---	---	8.2	2.9	5.3	4.4	2.5	3.5
31	---	---	---	---	---	---	10.3	4.7	7.4	4.4	3.8	4.1
MONTH	---	---	---	---	---	---	---	---	---	13.6	0.0	4.2
	FEBRUARY			MARCH			APRIL			MAY		
1	8.2	4.2	5.4	7.8	6.5	7.1	14.6	8.1	11.3	21.0	17.7	19.0
2	8.3	3.0	5.2	10.0	7.7	8.8	18.5	11.2	14.9	21.1	17.5	19.1
3	12.3	4.1	7.8	10.3	7.6	8.9	20.5	12.7	16.8	20.3	17.9	19.0
4	13.7	8.5	10.1	11.0	6.7	9.0	20.3	14.7	17.9	18.2	16.1	17.4
5	10.4	5.0	7.4	12.7	9.9	11.2	18.1	16.0	16.9	16.1	14.3	15.0
6	6.7	3.7	4.8	12.7	11.5	12.1	18.5	14.0	16.4	16.5	14.7	15.7
7	6.4	3.8	5.2	12.1	8.0	10	16.0	11.0	12.3	18.6	16.2	17.2
8	6.0	4.2	5.1	11.6	6.2	8.9	11.3	10.5	10.9	21.7	17.4	19.4
9	6.4	3.6	4.7	14.7	9.1	11.8	10.5	9.6	10.1	23.1	19.4	21.1
10	5.9	4.6	5.2	13.5	8.6	10.9	10.1	8.5	9.3	24.2	19.9	22.0
11	7.2	3.2	5.1	11.2	7.1	9.0	11.2	9.5	10.2	23.3	20.4	21.7
12	9.6	3.8	5.9	14.8	6.4	10.7	15.0	10.1	12.3	22.6	18.2	20.1
13	9.3	1.6	4.8	16.1	9.6	12.6	16.8	12.0	14.2	21.6	15.3	18.4
14	6.1	2.8	4.5	13.8	11.4	12.8	18.2	12.2	15.3	21.8	13.9	17.6
15	8.2	5.2	6.5	11.4	9.5	10.1	19.8	13.7	16.8	19.2	16.0	17.5
16	5.4	1.1	3.0	11.4	9.8	10.5	20.8	14.8	18.0	20.0	16.6	18.1
17	1.9	0.4	1.3	13.7	11.4	12.5	20.6	15.4	18.3	18.3	16.2	17.3
18	5.4	1.8	3.6	14.2	13.0	13.5	16.6	13.4	14.2	16.2	15.0	15.5
19	6.3	3.9	5.1	13.6	11.4	12.5	13.4	12.3	12.8	15.2	14.3	14.6
20	8.3	5.9	6.9	11.4	9.3	10.0	16.2	12.5	14.1	18.2	13.8	16.0
21	7.7	6.0	7.0	13.3	10.2	11.6	16.0	14.6	15.3	17.4	15.6	16.6
22	9.8	7.5	8.4	15.3	11.4	13.3	17.9	15.0	16.3	16.8	16.3	16.5
23	10.8	8.4	9.9	15.7	11.3	13.6	17.1	12.5	15.1	16.7	16.1	16.4
24	10.6	6.4	8.5	17.1	11.8	14.3	16.6	11.3	14.5	17.3	16.3	16.7
25	10.0	7.0	8.7	18.4	11.0	14.8	15.0	14.1	14.6	18.5	16.9	17.7
26	8.2	5.7	6.6	19.7	13.5	16.5	16.4	14.5	15.3	19.3	17.9	18.5
27	6.3	4.4	5.1	18.3	14.0	16.0	18.3	14.5	16.3	18.6	17.6	18.0
28	---	---	---	19.5	13.6	16.4	19.5	14.1	17.0	18.8	15.9	17.4
29	---	---	---	20.8	17.0	18.5	21.0	15.4	18.3	18.5	16.5	17.6
30	---	---	---	18.1	10.4	13.2	21.9	16.8	19.4	19.4	16.3	17.8
31	---	---	---	11.9	8.8	10.2	---	---	---	19.0	17.0	18.1
MONTH	---	---	---	20.8	6.2	12.0	21.9	8.1	14.8	24.2	13.8	17.8

