02097355 BOLIN CREEK ABOVE FRANKLIN STREET NEAR CHAPEL HILL, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to November 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 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, 27.5°C, July 9, 2003; minimum recorded, 8.8°C, Nov. 15, 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)	Specif. conductance, wat unf 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)
APR													
16...	1230	9	9.1	753	9.3	97	7.3	122	17.0	8.01	10.4	0.26	<0.04
MAY													
15...	1030	D	2.3	--	7.6	--	7.2	168	17.2	--	--	--	--
JUN													
18...	1025	9	--	--	7.4	--	6.4	135	20.2	--	--	--	--
JUL													
08...	1115	9	--	--	--	--	--	--	--	--	--	--	--
15...	0830	9	E4.2	757	7.3	84	7.2	137	22.0	7.48	8.2	0.34	<0.04
AUG													
28...	1030	9	1.5	757	6.5	79	6.5	204	24.6	11.9	10.5	0.28	<0.04
SEP													
16...	1130	9	--	--	7.4	--	7.4	212	20.9	--	--	--	--

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 sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
APR													
16...	--	--	0.24	--	<0.008	<0.02	0.03	0.025	0.50	0.2	<0.1	0.2	3.3
MAY													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	0.38	--	<0.008	E.01	0.06	0.054	0.72	0.5	<0.1	0.5	5.1
AUG													
28...	1.18	0.27	0.28	0.053	0.016	<0.02	0.03	0.037	0.56	0.2	--	--	2.9
SEP													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--

02097355 BOLIN CREEK ABOVE FRANKLIN STREET NEAR CHAPEL HILL, NC—Continued

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

Date	Biomass peri-phyton, ashfree drymass g/m2 (49954)	Peri-phyton biomass ash weight, g/m2 (00572)	Peri-phyton biomass dry weight, g/m2 (00573)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Et-6-Me-Ph)--amino] propan-1-ol, ug/L (61615)	2Chloro-2,6'-' diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)
APR													
16...	--	--	--	--	62	--	<0.09	<0.006	<0.1	<0.005	E.003	<0.004	<0.004
MAY													
15...	0.2	4.8	5.000	<0.2	--	<1.0	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	--	--	--	--	400	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	<0.09	<0.006	<0.1	<0.005	E.004	<0.004	<0.004
AUG													
28...	--	--	--	--	270	--	<0.09	<0.006	<0.1	<0.005	E.003	<0.004	<0.004
SEP													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	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-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Cyflu-thrin, water, fltrd, ug/L (61585)	Cyper-methrin water, fltrd, ug/L (61586)
APR													
16...	<0.006	<0.006	<0.004	0.009	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009
MAY													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<0.006	<0.006	<0.004	0.012	<0.02	<0.050	<0.010	E.043	<0.06	<0.005	<0.006	<0.008	<0.009
AUG													
28...	<0.006	<0.006	<0.004	0.008	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005	<0.006	<0.008	<0.009
SEP													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	DCPA, water fltrd 0.7u GF ug/L (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 ug/L (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)	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)
APR													
16...	<0.003	<0.004	<0.04	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009
MAY													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<0.003	E.003	<0.01	0.248	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009
AUG													
28...	<0.003	E.003	<0.01	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008	<0.03	<0.03	<0.009
SEP													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--

02097355 BOLIN CREEK ABOVE FRANKLIN STREET NEAR CHAPEL HILL, NC—Continued

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

Date	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)
APR													
16...	<0.005	<0.005	E.009	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03
MAY													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	E.004	0.007	E.018	<0.002	<0.003	0.014	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03
AUG													
28...	E.004	0.006	E.008	<0.002	<0.003	E.009	<1	<0.003	<0.008	<0.027	<0.005	<0.006	<0.03
SEP													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Pronamide, water, fltrd 0.7u GF ug/L (82676)	Simazine, water, fltrd, ug/L (04035)
APR													
16...	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01	<0.005	<0.004	<0.005
MAY													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	0.03	<0.005	<0.004	0.296
AUG													
28...	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	0.04	<0.005	<0.004	0.011
SEP													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
APR									
16...	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	88	5	0.12
MAY									
15...	--	--	--	--	--	--	--	--	--
JUN									
18...	--	--	--	--	--	--	--	--	--
JUL									
08...	--	--	--	--	--	--	--	--	--
15...	<0.02	<0.07	<0.02	M	<0.009	<0.01	97	12	--
AUG									
28...	<0.02	<0.07	<0.02	M	<0.009	<0.01	92	6	0.02
SEP									
16...	--	--	--	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Medium codes used in this table:
9 -- Surface water
D -- Plant tissue

02097355 BOLIN CREEK ABOVE FRANKLIN STREET NEAR CHAPEL HILL, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
APRIL TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	21.2	18.1	19.5
2	---	---	---	---	---	---	---	---	---	22.1	17.9	19.7
3	---	---	---	---	---	---	---	---	---	20.4	18.5	19.3
4	---	---	---	---	---	---	---	---	---	18.6	16.2	17.0
5	---	---	---	---	---	---	---	---	---	16.2	14.4	14.8
6	---	---	---	---	---	---	---	---	---	17.2	14.5	15.9
7	---	---	---	---	---	---	---	---	---	20.1	16.5	17.9
8	---	---	---	---	---	---	---	---	---	22.5	18.2	20.0
9	---	---	---	---	---	---	---	---	---	23.1	19.3	21.0
10	---	---	---	---	---	---	---	---	---	23.8	20.5	22.0
11	---	---	---	---	---	---	---	---	---	22.6	20.9	21.7
12	---	---	---	---	---	---	---	---	---	21.6	18.7	20.2
13	---	---	---	---	---	---	---	---	---	20.2	16.8	18.5
14	---	---	---	---	---	---	---	---	---	20.0	15.7	17.7
15	---	---	---	---	---	---	---	---	---	18.8	17.3	18.0
16	---	---	---	---	---	---	---	---	---	20.1	17.1	18.5
17	---	---	---	---	---	---	---	---	---	19.4	16.8	17.9
18	---	---	---	---	---	---	---	---	---	16.8	15.2	15.9
19	---	---	---	---	---	---	---	---	---	15.8	14.7	15.1
20	---	---	---	---	---	---	---	---	---	18.5	14.4	16.3
21	---	---	---	---	---	---	---	---	---	17.8	16.3	17.1
22	---	---	---	---	---	---	---	---	---	17.8	16.5	16.9
23	---	---	---	---	---	---	---	---	---	17.2	16.8	16.9
24	---	---	---	---	---	---	---	---	---	18.3	16.7	17.4
25	---	---	---	---	---	---	---	---	---	18.4	17.3	18.0
26	---	---	---	---	---	---	---	---	---	20.0	18.2	19.0
27	---	---	---	---	---	---	---	---	---	19.6	17.8	18.8
28	---	---	---	---	---	---	---	---	---	19.1	16.1	17.7
29	---	---	---	---	---	---	---	---	---	18.6	16.7	17.6
30	---	---	---	---	---	---	21.0	17.1	18.9	19.9	16.1	17.9
31	---	---	---	---	---	---	---	---	---	20.4	17.2	18.4
MONTH	---	---	---	---	---	---	---	---	---	23.8	14.4	18.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.1	17.0	18.4	24.0	22.7	23.1	25.9	23.3	24.2	25.6	23.3	24.3
2	19.7	15.7	17.6	22.8	21.4	22.0	24.4	23.5	23.8	25.5	23.3	24.3
3	18.8	16.6	17.8	22.4	21.8	22.1	25.4	23.1	24.0	25.5	23.4	24.4
4	20.8	18.3	19.3	24.6	20.8	22.5	25.2	23.6	24.3	25.0	23.3	24.1
5	22.0	19.2	20.4	25.9	22.3	23.9	24.7	22.7	23.6	23.9	21.9	22.8
6	21.6	18.0	19.7	27.4	24.7	26.1	24.8	22.3	23.4	22.5	20.2	20.9
7	21.5	19.8	20.6	26.2	24.0	25.1	24.5	22.9	23.6	21.5	19.3	20.3
8	22.3	20.4	21.3	27.1	23.7	25.2	24.2	22.8	23.6	21.4	20.2	20.7
9	23.8	20.7	22.0	27.5	24.5	25.7	25.1	23.0	23.9	21.5	19.8	20.6
10	23.8	20.0	21.8	26.6	23.8	25.1	24.0	22.7	23.3	21.1	19.5	20.1
11	23.7	20.3	22.0	26.6	23.8	24.9	24.1	22.4	23.2	20.2	18.0	19.2
12	25.7	21.8	23.3	26.3	23.1	24.5	24.9	22.5	23.5	19.8	18.8	19.3
13	24.1	22.1	23.0	24.7	22.9	23.7	25.0	22.9	23.8	20.2	19.2	19.7
14	25.0	22.1	23.3	24.1	22.6	23.3	25.4	23.4	24.3	21.8	20.1	20.8
15	24.9	22.6	23.5	25.0	22.4	23.6	25.8	23.2	24.4	22.5	20.6	21.5
16	24.2	22.0	22.8	26.4	23.0	24.4	25.3	23.5	24.3	22.3	20.7	21.3
17	22.0	20.8	21.1	26.3	23.7	24.8	25.5	23.5	24.4	20.7	18.2	19.5
18	22.5	20.5	21.3	25.9	23.5	24.7	24.8	22.9	23.9	19.9	18.8	19.3
19	23.9	21.5	22.4	25.3	23.1	23.9	24.8	22.5	23.5	21.4	18.9	19.9
20	22.4	20.9	21.6	25.4	22.4	23.8	24.6	22.9	23.8	21.8	18.8	20.2
21	21.6	19.6	20.7	25.9	23.3	24.5	25.0	22.8	23.9	21.8	19.4	20.6
22	21.7	18.3	20.0	26.2	24.1	25.0	24.7	23.2	24.0	21.8	20.8	21.3
23	23.3	19.1	21.0	24.9	23.1	23.5	25.1	22.6	23.7	22.5	21.0	21.8
24	24.1	19.7	21.7	24.7	22.5	23.4	24.9	23.0	23.9	21.2	18.9	20.1
25	25.0	20.9	22.7	25.1	21.7	23.2	24.5	21.8	23.1	21.1	18.2	19.6
26	25.3	21.6	23.3	25.3	22.4	23.7	25.2	22.8	24.0	21.2	18.6	19.9
27	25.3	22.6	23.9	26.2	23.1	24.6	25.9	23.4	24.7	21.2	18.7	19.9
28	24.5	22.4	23.0	26.1	24.0	25.1	26.2	24.2	25.3	20.8	19.4	20.1
29	24.6	21.2	22.5	25.8	24.1	24.9	26.2	24.4	25.4	19.4	16.6	17.5
30	25.1	22.3	23.5	25.1	23.3	23.7	26.5	24.5	25.5	16.6	14.4	15.6
31	---	---	---	23.9	22.6	23.2	26.3	24.3	24.9	---	---	---
MONTH	25.7	15.7	21.5	27.5	20.8	24.1	26.5	21.8	24.0	25.6	14.4	20.7

02097355 BOLIN CREEK ABOVE FRANKLIN STREET NEAR CHAPEL HILL, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
OCTOBER TO NOVEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.3	14.2	15.3	15.5	12.7	14.2	---	---	---	---	---	---
2	16.1	14.6	15.4	15.9	13.4	14.7	---	---	---	---	---	---
3	14.8	12.1	13.3	16.2	13.4	14.9	---	---	---	---	---	---
4	15.7	12.6	14.0	17.5	14.6	16.0	---	---	---	---	---	---
5	16.4	14.3	15.3	19.2	16.6	17.7	---	---	---	---	---	---
6	16.5	14.3	15.3	20.1	18.1	19.1	---	---	---	---	---	---
7	17.6	15.6	16.5	19.8	18.4	19.2	---	---	---	---	---	---
8	17.4	16.6	17.0	18.7	14.3	16.5	---	---	---	---	---	---
9	19.9	17.4	18.2	14.3	10.7	12.3	---	---	---	---	---	---
10	19.0	17.8	18.2	11.5	9.1	10.4	---	---	---	---	---	---
11	18.3	17.7	18.0	12.5	9.2	11.0	---	---	---	---	---	---
12	19.6	17.5	18.4	15.6	11.9	13.7	---	---	---	---	---	---
13	19.5	17.6	18.5	15.3	10.6	13.7	---	---	---	---	---	---
14	19.0	18.0	18.4	10.6	8.9	9.7	---	---	---	---	---	---
15	18.8	15.4	16.9	10.7	8.8	9.7	---	---	---	---	---	---
16	15.5	13.1	14.5	13.3	10.7	12.0	---	---	---	---	---	---
17	15.7	12.9	14.4	15.4	13.1	14.2	---	---	---	---	---	---
18	16.0	14.4	15.3	16.0	14.6	15.4	---	---	---	---	---	---
19	14.9	12.4	13.8	---	---	---	---	---	---	---	---	---
20	15.5	13.1	14.4	---	---	---	---	---	---	---	---	---
21	16.8	14.1	15.4	---	---	---	---	---	---	---	---	---
22	16.5	14.6	15.8	---	---	---	---	---	---	---	---	---
23	14.6	12.4	13.3	---	---	---	---	---	---	---	---	---
24	12.9	10.9	12.0	---	---	---	---	---	---	---	---	---
25	13.8	11.5	12.4	---	---	---	---	---	---	---	---	---
26	16.2	13.8	14.9	---	---	---	---	---	---	---	---	---
27	17.2	15.9	16.5	---	---	---	---	---	---	---	---	---
28	16.6	13.7	14.8	---	---	---	---	---	---	---	---	---
29	14.6	12.9	13.7	---	---	---	---	---	---	---	---	---
30	14.4	11.4	12.9	---	---	---	---	---	---	---	---	---
31	15.0	11.9	13.5	---	---	---	---	---	---	---	---	---
MONTH	19.9	10.9	15.4	---	---	---	---	---	---	---	---	---