

02172040 BACK RIVER AT DUPONT INTAKE NEAR KITTREDGE, SC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to current year.

pH: February 1981 to September 1993 (discontinued).

WATER TEMPERATURE: February 1981 to current year.

DISSOLVED OXYGEN: February 1981 to September 1993 (discontinued).

INSTRUMENTATION.--USGS mini-monitor and data collection platform.

REMARKS.--Specific conductance records rated excellent except for Apr. 3 to July 18, which are good. Temperature records rated good except for Nov. 22 to Dec. 17 and Jan. 15 to May 1, which are fair, and May 2 to June 11, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 609 microsiemens, Oct. 21, 1991; minimum, 43 microsiemens Sep. 7, 1987.

pH: Maximum, 8.4 units, Oct. 4, 10, 1987, Mar. 8, 1988; minimum, 5.3 units Sept. 7-8, 1986, May 7, 1987.

WATER TEMPERATURE: Maximum, 33.0°C, Jul. 20, 1986; minimum, 1.5°C, Dec. 26, 1989.

DISSOLVED OXYGEN: Maximum, 13.0 mg/L, Jan. 17, 1990; minimum, 0.0 mg/L, Sep. 23-Oct. 5, 1989.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 314 microsiemens, Oct. 7; minimum, 49 microsiemens, July 28.

WATER TEMPERATURE: Maximum, 30.1°C, Aug. 28, 29, 31; minimum, 5.3°C, Jan. 25.

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	158	153	156	159	148	153	147	143	145	149	126	134
2	160	153	156	162	149	154	155	144	148	142	123	131
3	160	155	158	188	151	159	187	145	155	144	119	129
4	176	156	160	228	153	174	236	149	180	134	116	128
5	178	157	166	220	152	177	216	156	174	135	124	130
6	205	160	173	174	150	165	192	150	167	136	125	131
7	314	173	212	175	149	158	181	146	158	135	127	131
8	294	172	216	153	145	149	155	145	149	137	131	133
9	298	173	222	162	140	150	156	144	149	137	131	133
10	233	164	187	156	144	149	172	144	152	136	131	133
11	185	154	167	149	142	146	158	143	149	138	133	135
12	166	134	154	147	140	144	149	142	145	137	134	135
13	144	121	138	147	137	142	147	140	144	137	134	135
14	136	117	129	145	130	140	143	134	139	142	134	137
15	137	121	131	143	132	139	143	129	138	143	136	138
16	141	121	132	142	131	136	142	134	138	145	135	139
17	142	122	130	139	128	134	146	135	138	147	136	140
18	147	127	138	138	119	128	151	135	141	139	134	137
19	151	134	144	138	121	132	156	138	144	138	132	136
20	150	138	145	138	128	133	177	139	150	136	133	134
21	152	143	148	138	129	135	148	138	141	144	133	136
22	153	147	150	142	130	135	150	138	141	224	136	163
23	154	149	151	142	129	136	142	138	140	174	140	153
24	154	149	151	141	134	138	148	138	142	147	132	135
25	154	149	151	143	139	140	145	111	130	136	129	133
26	155	150	152	143	140	142	129	104	119	145	130	137
27	157	150	153	143	141	142	130	107	122	167	133	145
28	156	147	152	144	141	143	131	113	124	182	133	151
29	153	147	148	145	143	144	129	115	124	179	135	149
30	159	147	151	145	142	144	131	121	126	172	132	147
31	158	147	152	---	---	---	142	125	131	141	131	137
MONTH	314	117	157	228	119	145	236	104	143	224	116	138

COOPER RIVER BASIN

02172040 BACK RIVER AT DUPONT INTAKE NEAR KITTREDGE, SC--Continued

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	152	130	138	146	128	133	111	101	106	103	84	91
2	142	128	134	148	123	131	115	99	106	96	89	92
3	137	128	132	125	117	122	116	98	105	96	87	91
4	136	128	132	120	113	117	117	101	106	94	87	90
5	133	128	130	120	113	117	111	100	104	94	86	91
6	134	128	131	124	113	118	112	101	104	92	85	89
7	132	126	129	125	116	120	107	100	103	94	83	88
8	132	126	127	123	114	118	109	95	103	92	83	87
9	130	125	127	120	111	116	108	92	99	94	85	88
10	131	125	127	119	111	115	102	77	91	94	80	86
11	130	122	127	121	109	116	93	77	89	100	81	88
12	130	125	127	122	114	118	89	77	84	93	83	87
13	131	125	128	124	116	119	90	81	85	99	82	88
14	147	125	132	122	115	119	93	81	86	107	83	91
15	182	130	146	125	117	120	96	82	87	114	83	95
16	218	132	167	137	118	123	94	83	88	114	85	100
17	247	140	179	133	114	121	93	87	89	135	84	103
18	183	133	154	136	116	122	97	89	92	170	85	127
19	213	135	164	126	117	120	107	89	96	175	82	117
20	159	128	144	121	94	112	104	89	95	141	82	107
21	173	128	146	106	67	89	109	88	97	116	78	95
22	153	127	135	116	73	94	102	88	94	105	77	89
23	140	124	134	115	87	100	101	87	93	89	77	83
24	140	123	130	103	89	95	99	88	92	83	77	80
25	138	125	131	102	90	97	98	85	90	80	76	78
26	139	125	130	107	97	102	93	84	87	81	72	77
27	136	126	131	110	100	102	92	84	87	82	75	78
28	134	126	131	107	102	104	90	84	87	80	75	77
29	---	---	---	109	102	106	94	84	87	82	74	77
30	---	---	---	---	---	---	95	83	88	79	74	76
31	---	---	---	111	103	107	---	---	---	77	73	75
MONTH	247	122	137	---	---	---	117	77	94	175	72	90

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	76	72	75	78	73	75	76	69	72	128	82	98
2	77	71	74	78	72	75	75	62	70	129	82	100
3	76	71	74	84	70	76	79	67	72	117	83	99
4	76	71	73	81	72	75	79	67	73	112	82	97
5	81	71	76	81	71	74	72	51	68	103	78	91
6	81	72	76	82	70	74	74	54	65	97	63	81
7	81	73	76	82	69	73	74	60	68	96	62	74
8	85	72	76	80	71	74	76	67	72	86	64	74
9	80	73	76	81	71	75	77	71	73	77	55	67
10	78	73	75	82	74	77	80	72	75	72	53	63
11	80	73	76	84	73	77	79	72	76	75	59	66
12	78	73	76	82	73	77	81	73	77	75	65	69
13	83	75	78	89	73	78	85	73	80	74	67	70
14	83	77	80	89	74	81	85	73	79	77	70	73
15	89	77	82	96	74	85	83	74	79	79	72	74
16	96	74	84	111	75	91	82	74	78	81	71	76
17	83	74	77	86	73	81	85	74	80	82	51	77
18	79	70	75	85	73	78	88	76	80	84	72	77
19	77	67	71	83	73	77	84	74	79	83	71	76
20	80	66	73	88	73	78	88	74	79	80	74	76
21	78	66	71	82	70	75	86	74	78	95	74	79
22	83	65	74	81	69	74	89	72	79	92	76	84
23	81	63	71	86	68	74	89	76	80	91	73	84
24	77	63	69	78	70	73	116	75	84	138	76	89
25	75	66	71	75	66	70	112	79	95	183	89	121
26	77	68	73	71	58	61	110	78	94	240	88	143
27	80	70	74	67	54	60	98	75	88	241	93	140
28	79	71	74	69	49	61	98	76	88	213	91	139
29	82	71	75	72	63	67	106	77	88	230	91	141
30	81	72	75	74	65	70	111	77	92	185	85	129
31	---	---	---	75	67	71	129	79	95	---	---	---
MONTH	96	63	75	111	49	74	129	51	79	241	51	91

02172040 BACK RIVER AT DUPONT INTAKE NEAR KITTREDGE, SC--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	26.0	25.6	25.8	20.4	19.8	20.1	12.9	12.3	12.7	11.0	9.9	10.4
2	26.2	25.4	25.8	19.9	19.3	19.6	12.6	11.9	12.3	10.9	9.5	10.2
3	26.6	25.6	26.1	19.4	18.9	19.2	12.4	11.6	12.1	9.9	9.2	9.6
4	26.9	25.9	26.4	19.1	18.6	18.8	12.6	11.2	11.7	9.5	8.2	8.7
5	27.2	26.1	26.6	18.7	18.2	18.5	11.2	10.4	10.7	9.6	7.8	8.5
6	27.4	26.3	26.9	18.8	17.7	18.3	10.7	9.8	10.3	8.8	7.7	8.2
7	27.5	26.7	27.1	18.0	16.5	17.4	10.7	9.4	10.2	9.5	7.3	8.4
8	27.1	26.0	26.6	17.3	16.2	17.0	10.3	9.5	10.1	8.8	7.2	8.1
9	26.1	25.3	25.6	17.2	15.7	16.7	10.3	9.8	10.1	9.0	8.1	8.5
10	25.4	24.8	25.1	17.2	16.4	16.9	10.1	9.7	9.9	10.1	9.0	9.7
11	25.2	24.7	25.0	17.6	16.9	17.4	9.9	9.5	9.8	10.0	9.4	9.7
12	24.7	23.9	24.4	17.7	17.4	17.6	9.9	9.4	9.7	9.4	8.8	9.2
13	24.7	23.6	24.3	17.6	16.8	17.3	10.3	9.7	10.0	8.9	8.6	8.7
14	24.1	23.1	23.6	16.8	16.2	16.4	10.4	9.8	10.2	9.1	8.4	8.7
15	23.1	21.8	22.4	16.3	15.5	16.0	10.0	9.5	9.7	8.8	8.2	8.5
16	22.1	20.8	21.5	16.2	15.5	15.9	10.0	9.1	9.6	8.6	7.8	8.2
17	21.5	20.1	20.8	16.1	15.2	15.7	10.1	9.3	9.7	8.5	8.0	8.3
18	21.6	19.9	20.9	15.2	13.9	14.4	10.2	9.7	9.9	8.0	7.4	7.7
19	21.4	20.0	20.8	14.7	13.4	14.2	10.6	10.0	10.3	7.5	6.8	7.3
20	21.5	20.0	21.0	15.0	13.2	14.3	11.4	10.4	11.0	7.8	6.6	7.3
21	21.4	20.6	21.2	15.0	14.2	14.7	11.1	10.5	10.9	8.5	7.5	7.9
22	21.3	20.6	20.9	15.6	14.0	14.8	10.9	10.2	10.6	8.5	8.1	8.3
23	20.6	20.0	20.4	15.3	13.6	14.7	10.9	10.2	10.6	8.2	6.5	7.6
24	20.4	19.9	20.1	14.9	13.1	14.3	11.0	10.5	10.8	6.6	5.5	5.9
25	20.1	19.5	19.9	14.9	13.4	14.2	11.5	10.7	11.0	5.7	5.3	5.4
26	20.1	19.6	19.9	15.0	13.8	14.4	10.8	9.4	10.1	6.1	5.5	5.8
27	20.3	19.6	20.0	14.3	13.3	13.8	9.7	9.0	9.5	6.2	5.8	6.0
28	21.0	20.2	20.6	14.5	13.2	14.1	9.4	8.6	9.2	6.5	5.7	6.0
29	21.4	21.0	21.2	13.7	13.0	13.5	9.4	8.6	9.1	7.2	5.8	6.4
30	21.5	21.2	21.3	13.2	12.8	13.0	9.7	8.8	9.3	7.5	6.7	7.0
31	21.2	20.4	20.7	---	---	---	10.0	9.3	9.6	7.2	6.7	7.1
MONTH	27.5	19.5	23.0	20.4	12.8	16.1	12.9	8.6	10.3	11.0	5.3	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.7	6.6	7.1	10.8	10.1	10.3	16.3	14.9	15.5	22.8	21.0	21.7
2	8.1	7.1	7.5	12.0	10.3	11.1	17.1	15.1	15.9	22.4	20.6	21.4
3	8.6	7.5	8.0	12.7	11.2	11.8	18.0	16.1	16.8	22.4	20.9	21.4
4	9.5	8.3	8.9	12.6	11.5	11.9	18.3	16.9	17.4	22.2	21.2	21.6
5	9.4	8.6	9.1	13.8	11.7	12.6	19.4	17.4	18.1	22.2	21.2	21.8
6	9.3	8.3	8.9	14.5	12.5	13.4	18.9	17.6	18.3	23.1	21.2	22.0
7	8.6	7.8	8.1	14.4	12.4	13.2	18.6	17.2	18.0	23.4	21.5	22.2
8	7.9	7.4	7.7	13.9	12.0	12.7	18.5	16.3	17.3	23.2	21.9	22.6
9	8.4	7.8	8.1	13.9	12.3	13.0	17.1	15.6	16.0	24.3	22.7	23.5
10	8.7	8.1	8.4	14.4	12.5	13.3	15.8	14.0	15.0	25.1	22.8	23.7
11	8.9	8.1	8.4	15.2	12.7	13.6	14.6	13.3	14.3	26.1	23.6	24.6
12	9.2	8.2	8.6	16.2	13.4	14.6	15.3	13.3	14.4	---	---	---
13	9.5	8.6	8.9	16.2	13.8	14.5	17.1	14.8	15.9	---	---	---
14	9.2	8.7	8.9	15.5	13.2	14.1	18.6	16.4	17.3	---	---	---
15	10.7	8.7	9.5	14.1	12.5	13.2	19.9	17.3	18.3	---	---	---
16	10.1	9.5	9.8	14.5	12.5	13.3	20.2	17.9	18.7	---	---	---
17	9.6	8.6	9.3	14.5	13.1	13.8	20.6	18.0	19.0	---	---	---
18	8.8	8.2	8.6	15.2	13.8	14.4	20.6	18.3	19.1	---	---	---
19	9.2	8.1	8.7	15.7	14.5	15.0	20.0	17.8	18.9	---	---	---
20	9.6	8.7	9.1	16.6	14.9	15.6	19.7	17.6	18.4	---	---	---
21	10.1	9.3	9.7	18.4	15.5	17.2	19.9	17.9	18.7	---	---	---
22	11.9	9.6	10.5	18.8	16.6	17.7	20.9	18.8	19.7	---	---	---
23	12.7	10.6	11.8	18.0	16.9	17.5	20.9	19.1	19.8	---	---	---
24	12.5	10.6	11.3	18.1	16.6	17.4	20.7	19.1	19.8	---	---	---
25	12.7	11.0	11.7	18.2	16.4	17.3	20.3	19.4	19.8	---	---	---
26	12.4	11.2	11.6	18.8	16.2	17.4	19.9	18.8	19.3	---	---	---
27	11.7	10.7	11.1	18.6	16.5	17.4	20.9	19.0	19.7	---	---	---
28	11.2	9.8	10.5	17.9	15.9	16.9	21.5	19.7	20.3	---	---	---
29	---	---	---	19.7	16.4	17.6	22.5	20.3	21.1	---	---	---
30	---	---	---	---	---	---	23.1	20.8	21.5	---	---	---
31	---	---	---	16.8	15.1	15.9	---	---	---	---	---	---
MONTH	12.7	6.6	9.3	---	---	---	23.1	13.3	18.1	---	---	---

COOPER RIVER BASIN

02172040 BACK RIVER AT DUPONT INTAKE NEAR KITTREDGE, SC--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
1	---	---	---	27.5	26.9	27.2	28.5	27.6	28.1	30.0	29.0	29.5
2	---	---	---	27.0	26.5	26.8	28.7	26.6	27.6	29.6	28.8	29.2
3	---	---	---	27.2	26.3	26.8	28.5	26.6	27.6	29.4	28.6	29.0
4	---	---	---	27.5	26.9	27.2	28.4	26.8	27.7	29.5	28.5	28.9
5	---	---	---	27.6	27.1	27.4	27.9	25.8	26.9	28.8	28.0	28.4
6	---	---	---	27.6	26.8	27.2	28.0	25.9	27.1	28.2	25.0	26.5
7	---	---	---	27.9	27.1	27.4	28.3	26.6	27.5	26.4	23.3	24.6
8	---	---	---	28.0	27.0	27.5	28.5	27.2	27.9	25.4	23.4	24.4
9	---	---	---	28.9	27.4	28.2	28.7	27.6	28.2	25.2	23.1	24.2
10	---	---	---	29.1	28.2	28.6	28.9	27.8	28.5	25.2	23.2	24.0
11	---	---	---	29.4	28.0	28.6	29.1	28.1	28.6	24.5	23.2	23.9
12	27.3	26.0	26.7	29.4	28.4	28.8	29.2	28.1	28.6	24.4	23.2	23.8
13	26.9	25.9	26.4	28.7	28.2	28.4	29.0	28.4	28.7	24.7	22.7	23.8
14	26.9	25.8	26.3	28.4	27.7	28.0	29.1	27.8	28.5	25.1	23.6	24.5
15	27.2	25.9	26.5	28.3	27.5	27.9	29.7	28.3	29.0	25.6	24.2	24.9
16	27.4	26.0	26.9	28.8	27.7	28.2	29.4	28.6	29.0	25.8	24.6	25.2
17	26.3	25.6	26.0	29.1	28.2	28.6	29.2	28.1	28.7	25.5	24.4	24.9
18	26.1	25.5	25.8	29.2	28.3	28.7	29.2	28.2	28.7	24.8	23.8	24.1
19	26.6	25.0	25.6	28.8	28.2	28.4	29.2	28.3	28.7	24.4	23.5	24.0
20	27.0	25.6	26.4	28.4	27.7	28.1	29.0	28.3	28.7	25.1	24.0	24.4
21	26.7	25.8	26.2	28.8	27.5	28.1	29.0	28.5	28.7	25.4	24.4	24.9
22	26.7	25.4	26.0	28.7	27.8	28.1	28.8	28.1	28.4	25.6	24.6	25.1
23	26.6	25.3	25.9	28.1	27.2	27.7	28.9	28.0	28.4	25.6	24.6	25.0
24	27.2	25.8	26.3	27.3	25.9	26.7	29.1	28.2	28.7	25.3	24.2	24.8
25	27.4	26.1	26.8	26.8	25.4	26.1	29.2	28.4	28.8	25.5	24.3	24.9
26	28.1	26.6	27.4	26.5	24.1	25.2	29.7	28.4	29.0	25.2	24.6	24.9
27	28.6	27.2	27.7	26.7	24.5	25.4	30.0	28.7	29.3	25.3	24.5	24.9
28	28.4	27.3	27.7	27.1	24.8	25.9	30.1	29.0	29.5	25.6	24.5	25.0
29	28.3	27.4	27.6	27.9	26.0	26.9	30.1	29.1	29.5	24.7	23.8	24.2
30	28.0	26.9	27.4	28.6	27.1	27.8	30.0	29.1	29.5	24.0	22.8	23.3
31	---	---	---	29.0	27.8	28.3	30.1	29.0	29.5	---	---	---
MONTH	---	---	---	29.4	24.1	27.6	30.1	25.8	28.5	30.0	22.7	25.3