

## SANTEE RIVER BASIN

02171638 REDIVERSION CANAL FOREBAY AT ST. STEPHENS, SC

LOCATION.--Lat 33°25'39'', long 79°55'53'', Berkeley County, Hydrologic Unit 03050201, at St. Stephens hydro-electric plant (COE), 1.0 mi from town of St. Stephens.

PERIOD OF RECORD.--Water year 2005.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 2005 to September 2005.

DISSOLVED OXYGEN: June 2005 to September 2005.

INSTRUMENTATION.--Water quality multiprobe and data collection platform.

REMARKS.--Temperature records rated excellent. Dissolved oxygen records rated excellent except for July 3-6, 21, 22, which are good, June 17, 18, July 28 to Aug. 1, Aug. 20-24, 27-29, Sep. 3-6, which are fair, and June 19-21, Aug. 30, 31, Sep. 7, 8, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 34.3°C, July 28, 2005; minimum, 23.0°C, June 2, 2005.

DISSOLVED OXYGEN: Maximum, 9.7 mg/L, Sep. 17, 2005; minimum, 0.3 mg/L, Sep. 30, 2005.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 34.3°C, July 28; minimum, 23.0°C, June 2.

DISSOLVED OXYGEN: Maximum, 9.7 mg/L, Sep. 17; minimum, 0.3 mg/L, Sep. 30.

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	30.4	28.9	29.5	31.5	30.9	31.2	30.5	29.6	30.0
2	---	23.0	---	30.6	29.5	30.1	31.5	30.2	30.9	30.8	29.9	30.2
3	24.0	23.7	23.8	30.6	29.3	30.2	30.9	29.9	30.2	30.1	29.4	29.7
4	24.1	23.5	23.8	30.3	28.7	29.4	30.7	30.2	30.4	29.5	28.9	29.2
5	25.9	23.6	24.4	30.4	29.8	30.2	30.3	29.7	30.1	28.9	27.8	28.4
6	27.0	24.8	25.7	30.3	28.8	29.6	29.8	29.4	29.6	27.8	26.6	27.3
7	27.5	25.8	26.5	30.1	29.1	29.6	29.5	28.9	29.2	26.6	26.0	26.3
8	27.1	26.2	26.7	30.2	28.7	29.4	28.9	28.6	28.8	26.4	25.7	26.0
9	27.1	26.2	26.6	30.0	29.0	29.4	29.6	28.5	28.8	25.9	25.7	25.8
10	27.4	26.4	26.9	29.2	28.5	28.8	30.4	29.3	29.7	25.8	25.3	25.6
11	27.1	26.7	26.9	29.5	28.5	28.9	30.3	29.6	29.9	25.6	25.0	25.2
12	27.3	26.5	26.9	31.0	28.9	29.7	31.1	29.9	30.3	25.3	24.8	25.0
13	28.5	26.9	27.6	30.5	29.2	29.7	30.6	30.2	30.4	25.3	25.1	25.1
14	29.9	28.2	28.8	29.6	28.6	29.1	31.1	30.1	30.5	25.2	24.9	25.1
15	30.1	29.2	29.5	30.1	28.7	29.2	31.8	30.8	31.1	25.4	24.8	25.0
16	30.1	29.4	29.7	30.4	28.8	29.5	32.2	31.5	31.7	25.9	25.1	25.3
17	29.6	28.8	29.3	30.7	29.2	29.9	32.9	31.6	32.0	29.0	25.4	26.5
18	28.8	27.4	28.3	31.1	29.5	30.3	31.6	30.7	31.3	29.1	28.4	28.6
19	27.5	27.0	27.3	31.3	29.8	30.5	31.5	30.5	30.9	29.2	28.7	28.9
20	27.4	26.6	26.9	32.0	30.0	30.9	32.3	31.2	31.6	29.3	28.4	29.0
21	---	---	---	31.9	30.6	31.3	32.5	31.7	32.1	29.0	28.2	28.8
22	---	---	---	31.6	30.0	30.8	32.4	32.0	32.2	28.5	27.8	28.2
23	28.7	27.5	27.9	31.6	30.8	31.0	32.9	31.3	31.9	28.7	28.1	28.3
24	28.5	27.9	28.1	31.2	30.7	30.9	31.3	30.5	31.0	28.6	28.2	28.3
25	28.0	26.4	27.5	31.3	30.5	30.9	30.5	29.1	29.9	28.3	27.9	28.0
26	26.8	26.3	26.4	31.9	30.9	31.3	29.1	28.0	28.5	28.8	27.7	28.1
27	27.6	26.7	27.0	32.9	31.5	32.0	28.6	27.9	28.2	28.3	28.0	28.1
28	27.6	27.0	27.4	34.3	32.2	32.6	29.5	28.4	28.9	28.1	27.7	27.9
29	27.9	26.9	27.2	33.3	32.8	33.0	30.6	29.2	29.7	28.7	27.3	28.0
30	29.2	27.3	28.1	33.0	32.3	32.5	30.4	29.9	30.1	28.4	27.4	27.8
31	---	---	---	32.3	31.5	31.8	30.1	29.5	29.8	---	---	---
MONTH	---	---	---	34.3	28.5	30.4	32.9	27.9	30.4	30.8	24.8	27.5

02171638 REDIVERSION CANAL FOREBAY AT ST. STEPHENS, SC--Continued

Dissolved oxygen, water, unfiltered, milligrams per liter  
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.9	6.7	7.2	5.7	4.4	4.8	7.1	5.9	6.5
2	---	---	---	7.5	6.6	7.2	5.5	3.9	4.5	7.3	5.8	6.6
3	7.0	4.9	6.1	7.2	6.2	6.7	6.5	4.4	5.2	7.4	6.2	6.8
4	7.0	6.4	6.7	7.3	6.0	6.5	6.8	5.2	6.2	7.6	6.4	7.0
5	7.5	6.5	7.0	7.3	6.2	6.8	6.5	5.3	5.8	7.8	6.2	7.1
6	7.6	7.1	7.3	8.0	6.5	7.2	6.3	5.6	5.9	7.7	6.8	7.3
7	7.6	7.1	7.3	7.8	7.0	7.4	6.3	5.2	5.7	8.0	6.8	7.4
8	7.5	7.1	7.3	8.0	6.6	7.3	6.5	5.2	5.8	7.8	6.3	7.1
9	7.4	6.9	7.1	7.8	7.0	7.2	6.7	5.3	6.0	6.4	5.3	6.0
10	7.4	6.9	7.2	7.2	6.4	6.8	6.7	5.4	6.2	6.6	5.5	6.1
11	7.4	5.3	6.9	7.4	6.5	6.9	6.6	5.6	6.2	6.5	5.9	6.3
12	7.2	4.6	6.4	8.0	6.8	7.3	6.8	5.4	6.1	6.9	5.9	6.4
13	7.2	4.6	6.4	7.8	7.1	7.4	6.7	5.6	6.0	6.5	5.9	6.2
14	7.3	4.6	6.2	7.5	6.7	7.1	6.6	5.4	6.0	6.8	6.2	6.6
15	7.1	5.0	6.2	7.6	6.6	7.1	7.1	5.6	6.2	7.0	5.9	6.4
16	7.6	4.6	6.3	8.0	6.8	7.3	6.8	5.9	6.3	6.8	5.2	6.0
17	8.0	5.1	6.5	7.8	7.0	7.4	7.0	5.2	6.0	9.7	5.0	6.6
18	8.0	4.8	6.3	7.9	7.0	7.4	6.5	4.6	5.3	9.6	6.8	7.8
19	8.3	4.9	6.5	7.6	6.7	7.2	7.1	5.1	6.0	7.8	5.2	5.9
20	8.8	5.2	6.5	7.8	5.5	7.2	7.1	5.6	6.3	5.7	4.0	5.1
21	---	---	---	7.5	5.2	6.7	7.4	5.6	6.5	5.4	2.7	4.4
22	---	---	---	7.3	4.8	6.5	6.5	4.9	5.5	5.3	1.7	3.6
23	7.9	6.6	7.2	7.4	5.6	6.5	7.2	4.7	5.7	6.2	4.5	5.1
24	7.4	6.7	7.0	7.3	6.0	6.7	5.4	4.3	5.0	5.8	4.1	5.1
25	6.9	6.4	6.6	7.5	6.4	6.9	6.0	4.3	5.3	5.5	3.4	4.4
26	6.9	6.1	6.4	8.0	6.7	7.2	6.2	5.1	5.7	6.0	3.6	4.6
27	6.9	6.1	6.4	7.9	6.3	7.2	6.4	5.3	5.8	4.9	3.7	4.1
28	6.7	5.8	6.3	8.0	6.1	6.7	6.8	5.6	6.1	4.6	0.6	2.5
29	7.0	6.0	6.4	6.7	5.3	5.9	7.3	5.9	6.4	2.4	0.8	1.7
30	7.4	6.1	6.8	6.2	5.2	5.7	7.4	6.6	6.9	1.4	0.3	0.4
31	---	---	---	5.5	4.8	5.1	7.1	6.0	6.7	---	---	---
MONTH	---	---	---	8.0	4.8	6.9	7.4	3.9	5.9	9.7	0.3	5.6