

12101104 WHITE RIVER ABOVE TACOMA AVENUE BRIDGE AT SUMNER, WA

WATER-QUALITY RECORDS

LOCATION.--Lat 47°13'01.9", long 122°14'08.5", in SW 1/4 SE 1/4 sec.13, T.20 N., R.4 E., Pierce County, Hydrologic Unit 17110014, on left bank, 0.1 mile upstream from Tacoma Avenue Bridge in Sumner, and at mile 1.8.

DRAINAGE AREA.--470 mi<sup>2</sup>, approximately.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 2001 to September 2002 (seasonal records).  
 pH: August 2001 to September 2002 (seasonal records).  
 WATER TEMPERATURE: August 2001 to September 2002 (seasonal records).  
 DISSOLVED OXYGEN: August 2001 to September 2002 (seasonal records).

INSTRUMENTATION.--Water-quality monitor since August 2001. Electronic data logger with 30-minute logging interval.

REMARKS.--Interruption in record due to routine instrument service and to instrument failures. Specific conductance records excellent, except for Aug. 21-30, which are good. pH records excellent, except for Sept. 19-23, which are good. Water temperature records excellent. Dissolved oxygen records good Aug. 17 to Sept. 30; fair Aug. 3-9 and Aug. 13; and poor Aug. 10-12 and Aug. 14-16.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 98 uS/cm on Sept. 30, 2001; minimum recorded, 50 uS/cm on Aug. 30, 2002.  
 pH: Maximum recorded, 8.3 on Sept. 28, 2002; minimum recorded, 6.7 on Sept. 4-6, 2002.  
 WATER TEMPERATURE: Maximum recorded, 20.4° C on Aug. 10, 2001; minimum recorded, 9.7° C on Sept. 28, 2001.  
 DISSOLVED OXYGEN: Maximum recorded, 11.4 mg/L Sept. 21, 2002; minimum recorded 7.9 mg/L Aug. 12, 2001 and Sept. 3, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 90 uS/cm on Sept. 30; minimum recorded, 50 uS/cm on Aug. 30.  
 pH: Maximum recorded, 8.3 on Sept. 28; minimum recorded, 6.7 on Sept. 4-6.  
 WATER TEMPERATURE: Maximum recorded, 19.6° C on Aug. 13, but may have been higher during periods of missing record; minimum recorded, 9.9° C on Sept. 22.  
 DISSOLVED OXYGEN: Maximum recorded, 11.4 mg/L Sept. 21; minimum recorded, 7.9 mg/L Sept. 3.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), AUGUST TO SEPTEMBER 2002

DAY	AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	71	69	70
2	---	---	---	70	55	62
3	70	52	59	67	52	59
4	61	60	60	74	53	61
5	66	60	63	76	53	63
6	68	63	66	78	55	65
7	---	---	---	80	78	79
8	---	---	---	82	55	70
9	68	64	66	85	82	83
10	65	60	63	86	82	84
11	62	58	60	85	57	71
12	62	59	61	81	56	73
13	62	57	60	80	75	77
14	58	55	57	79	74	77
15	57	53	55	78	74	76
16	58	56	57	77	56	70
17	60	58	59	77	56	66
18	62	59	61	---	---	---
19	64	61	63	---	---	---
20	66	62	64	88	80	82
21	68	63	66	86	79	81
22	69	65	68	88	61	74
23	68	65	67	89	60	81
24	66	63	65	87	82	84
25	71	64	66	89	83	84
26	78	62	70	89	60	73
27	77	55	62	88	63	85
28	74	53	63	89	84	85
29	69	51	59	89	61	73
30	67	50	58	90	56	66
31	71	66	68	---	---	---
MONTH	78	50	62	90	52	74
YEAR	90	50	68			

## PUYALLUP RIVER BASIN

12101104 WHITE RIVER ABOVE TACOMA AVENUE BRIDGE AT SUMNER, WA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
AUGUST			SEPTEMBER			
1	---	---	---	7.1	7.0	7.0
2	---	---	---	7.0	6.9	7.0
3	7.3	7.1	7.2	7.0	6.8	7.0
4	7.3	7.2	7.3	7.0	6.7	7.0
5	7.3	7.2	7.2	6.9	6.7	6.8
6	7.4	7.2	7.3	6.9	6.7	6.8
7	---	---	---	7.1	6.9	7.0
8	---	---	---	7.0	6.8	6.9
9	7.3	7.0	7.1	7.5	6.9	7.1
10	7.1	7.0	7.0	7.8	7.0	7.1
11	7.1	7.0	7.0	7.2	6.9	7.0
12	7.1	7.0	7.0	7.4	6.9	7.0
13	7.1	7.0	7.0	8.1	7.0	7.1
14	7.0	7.0	7.0	8.0	7.0	7.1
15	7.0	7.0	7.0	7.4	7.0	7.1
16	7.1	7.0	7.1	7.3	6.9	7.0
17	7.1	7.0	7.1	7.1	6.8	7.0
18	7.1	7.0	7.1	---	---	---
19	7.1	7.0	7.1	---	---	---
20	7.2	7.1	7.1	8.2	7.2	7.3
21	7.2	7.1	7.1	7.9	7.2	7.3
22	7.2	7.1	7.1	7.2	7.0	7.2
23	7.2	7.1	7.1	7.8	6.8	7.2
24	7.2	7.1	7.1	8.0	6.9	7.0
25	7.2	6.9	7.1	8.1	6.9	7.0
26	7.0	6.8	7.0	7.1	6.8	6.9
27	7.0	6.8	6.8	8.1	6.8	7.0
28	7.0	6.8	6.9	8.3	6.9	7.1
29	7.0	6.8	6.9	7.2	6.8	7.0
30	7.0	6.8	6.9	7.1	6.8	6.9
31	7.1	7.0	7.0	---	---	---
MAX	7.4	7.2	7.3	8.3	7.2	7.3
MIN	7.0	6.8	6.8	6.9	6.7	6.8
YEAR	MAX			MAXIMUM 8.3	MINIMUM 6.9	
	MIN			MAXIMUM 7.2	MINIMUM 6.7	
	MEDIAN			MAXIMUM 7.3	MINIMUM 6.8	

TEMPERATURE, WATER (DEG. C), AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
AUGUST			SEPTEMBER			
1	---	---	---	16.8	13.9	15.1
2	---	---	---	16.8	12.8	15.3
3	16.7	12.1	14.0	17.3	13.4	15.8
4	15.2	13.0	13.9	16.8	11.6	14.6
5	15.6	11.9	13.5	16.7	10.9	14.5
6	15.4	12.7	13.7	16.6	11.5	14.7
7	---	---	---	15.2	12.2	13.7
8	---	---	---	15.7	11.1	13.7
9	18.8	13.7	16.0	16.8	12.1	14.2
10	16.8	14.5	15.9	17.5	13.3	15.4
11	18.0	13.5	15.5	16.9	13.4	15.5
12	18.8	14.0	16.1	17.4	13.6	15.6
13	19.6	15.1	17.1	17.9	13.5	15.8
14	18.9	15.6	17.0	17.8	13.6	15.8
15	18.1	15.0	16.4	16.7	14.0	14.9
16	17.9	15.0	16.1	16.3	13.0	14.5
17	17.8	13.8	15.6	16.6	12.5	14.7
18	16.8	13.3	14.9	---	---	---
19	15.7	13.1	14.3	---	---	---
20	15.0	13.6	14.5	15.3	12.2	13.8
21	15.0	12.2	13.3	13.9	10.2	12.2
22	17.2	12.3	14.4	15.6	9.9	13.2
23	18.3	13.8	15.7	15.8	10.6	12.9
24	17.9	14.6	16.0	15.3	11.4	13.4
25	16.0	14.9	15.2	15.2	11.4	13.3
26	17.1	13.5	15.2	15.6	11.3	13.7
27	18.0	13.9	16.6	15.2	11.0	12.7
28	19.1	14.8	17.5	14.4	10.7	12.5
29	18.9	15.2	17.4	15.5	11.9	13.9
30	18.5	16.0	17.2	15.0	10.8	13.8
31	17.4	12.8	15.2	---	---	---
MONTH	19.6	11.9	15.5	17.9	9.9	14.3
YEAR	19.6	9.9	14.9			

PUYALLUP RIVER BASIN

12101104 WHITE RIVER ABOVE TACOMA AVENUE BRIDGE AT SUMNER, WA--Continued

OXYGEN DISSOLVED (MG/L), AUGUST TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
AUGUST			SEPTEMBER			
1	---	---	---	9.7	8.8	9.3
2	---	---	---	9.8	8.3	9.0
3	11.1	9.7	10.6	9.5	7.9	8.6
4	10.8	10.5	10.7	10.2	8.5	9.1
5	11.3	10.2	10.8	10.6	8.5	9.3
6	10.9	10.2	10.6	10.4	8.5	9.2
7	---	---	---	10.3	9.2	9.8
8	---	---	---	10.6	8.7	9.5
9	10.0	9.1	9.5	10.3	8.9	9.8
10	9.8	9.3	9.5	10.1	8.7	9.4
11	10.0	9.1	9.6	10.2	8.3	9.1
12	9.8	9.0	9.5	10.0	8.4	9.2
13	9.7	8.9	9.3	10.0	8.6	9.3
14	9.6	8.9	9.3	10.1	8.8	9.5
15	9.8	9.2	9.5	10.1	9.0	9.6
16	9.8	9.3	9.6	10.3	8.7	9.6
17	10.0	9.1	9.7	10.4	8.7	9.3
18	10.2	9.3	9.7	---	---	---
19	10.1	9.3	9.7	---	---	---
20	9.6	9.4	9.5	10.8	9.5	10.1
21	10.3	9.6	9.9	11.4	9.6	10.5
22	10.2	9.0	9.7	11.1	8.9	9.8
23	9.8	8.8	9.4	10.8	8.5	9.9
24	9.6	8.8	9.2	10.5	8.9	9.7
25	9.4	9.0	9.3	10.5	8.9	9.7
26	9.8	8.9	9.3	10.4	8.3	9.0
27	10.1	8.5	9.1	10.7	8.3	9.7
28	9.8	8.6	9.0	11.0	9.2	10.1
29	9.6	8.3	8.8	9.7	8.7	9.2
30	9.2	8.2	8.8	9.8	8.6	9.2
31	10.0	8.8	9.4	---	---	---
MONTH	11.3	8.2	9.6	11.4	7.9	9.5
YEAR	11.4	7.9	9.5			