APPENDIX A

Electrical Conductivity, Boron, and Selenium Water Quality Data for San Joaquin River Monitoring Stations

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Appendix Legend

Abbreviation	Abbreviation Explanation
EC	Electrical Conductivity
B	Total Boron
Se	Total Selenium

Table-A1 San Joaquin River at Lander Avenue (State Highway 165) (MER522)

Location: Latitude 37°17'43", Longitude 120°51'01". In NE 1/4, NE 1/4, Sec. 27, T.7S., R.10E.
East Bank, 50 ft West of Lander Avenue (Highway 165), 2.3 mi. south of Stevinson.
River Mile 132.9

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/3/85			390	0.10	<1
7/2/85			1300	0.36	<1
8/15/85			800	0.23	1.0
8/29/85			600	0.08	<1
9/28/85			192	<0.01	<1
10/31/85			790	0.27	<1
12/7/85			460	0.20	1
12/18/85			670	0.23	2
1/4/86			930	0.61	5
1/9/86			750	0.26	2
1/14/86		7.9	680	0.16	1
2/7/86		8.0	520	0.10	<1
2/17/86		7.9	210	0.01	<1
3/1/86		7.9	107	<0.01	<1
4/2/86					<1
4/19/86		7.6	73	0.10	<1
4/26/86		7.2	75	0.04	<1
5/13/86			130	0.03	<1
6/3/86			190	0.05	0.7
6/16/86			230	<0.01	0.7
6/26/86			510	0.14	0.9
8/4/86			460	0.11	<0.4
9/2/86			340	0.06	<0.4
9/27/86			140	0.10	<0.4
11/4/86				0.16	0.5
12/4/86		7.9		0.21	0.5
1/2/87			710	0.25	1.6
1/30/87			650	0.28	1.8
2/27/87			918	0.20	0.8
4/1/87			1280	0.21	0.5
5/1/87			1650	0.35	1.0
6/1/87			1000	0.16	0.7
6/15/87			1220	0.10	0.6
7/1/87			1200	0.25	0.6
7/15/87			1400	0.31	0.4
7/31/87			1200	0.28	0.7
8/17/87			1240	0.31	0.7
9/1/87			790	0.20	0.5
9/18/87			713	0.18	0.7
10/1/87	75	7.8	357	0.04	0.4
10/15/87	66	6.9	318	0.03	<0.4
11/3/87	62	8.8	1150	0.19	0.4
11/17/87	55	8.2	1500	0.27	<0.4
12/1/87	52	7.8	940	0.26	1.4
12/14/87	42	8.1	1080	0.26	1.1
1/5/88	47		1150	0.47	
1/15/88	50	8.1	900	0.24	
1/27/88	51	8.0	1000	0.16	1.0
2/16/88	54	8.4	1200	0.33	1.4
3/2/88	60	8.3	1700	0.30	0.8
3/9/88	64		1150	0.20	0.4
3/18/88	62	9.0	1650	0.28	0.7
3/24/88	60	7.2	1600	0.32	0.9
3/30/88	59	8.2	1650	0.29	1.1

Table-A1 San Joaquin River at Lander Avenue (MER522) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
4/8/88	64	8.6	1650	0.30	0.8
4/15/88	62		2100	0.30	0.7
4/22/88	63	8.1	700	0.10	0.4
4/28/88	66	8.7	900	0.20	1.2
5/5/88	62	8.4	1200	0.30	0.7
5/19/88	73	8.5	1600	0.30	0.5
5/25/88	82	8.5	1700	0.30	0.6
6/1/88	75	8.1	1550	0.30	0.6
6/6/88	72	7.2	1700	0.30	1.1
6/13/88	81	8.1	1850	0.30	0.6
6/23/88	76	7.4	1900	0.30	<0.4
6/29/88	73	8.2	2050	0.30	0.5
7/6/88	80	9.0	2060	0.40	0.6
7/13/88	79	8.7	1750	0.30	0.7
7/20/88	81	8.7	1750	0.40	0.6
7/27/88	86	8.6	1900	0.40	0.8
8/1/88	83	8.4	1800	0.36	0.5
8/9/88	80	8.5	1700	0.32	0.8
8/16/88	77	8.9	1700	0.30	0.5
8/23/88	77	8.0	1430	0.31	0.9
9/1/88	83		1510	0.29	0.5
9/8/88	80		1490	0.33	0.8
9/15/88	73		1400	0.31	0.8
9/20/88	68		1500	0.28	0.7
9/29/88	70	8.2	1550	0.29	0.6
10/4/88	71		1680	0.31	0.9
10/11/88	70	8.0	1400	0.20	0.5
10/17/88	74		1370	0.22	0.5
10/25/88	71	7.8	1400	0.26	0.4
11/1/88	70	8.1	1460	0.27	1.1
11/10/88	62	8.1	1520	0.29	0.7
11/15/88	58	8.2	1500	0.28	0.8
11/22/88	54	7.9	1550	0.29	0.6
12/8/88	54		1660	0.32	0.4
12/28/88	43		1950	0.20	0.6
1/11/89	45		750	0.23	0.9
1/26/89	50		1250	0.54	1.2
1/31/89	50		1140	0.45	1.3
2/7/89	45		1050		0.8
2/14/89	48	8.1	550	0.09	<0.4
2/21/89	60		870	0.15	1.1
3/1/89	60	8.2	1120	0.23	0.9
3/7/89	60	7.8	380	0.06	0.6
3/15/89	64		700	0.13	<0.4
3/21/89	65		1090	0.22	0.6
3/29/89	66	7.6	530	0.07	<0.4
4/5/89	63	7.3	1150	0.22	<0.4
4/12/89	75	7.4	1550	0.30	0.6
4/20/89	71		1880	0.38	0.5
4/26/89	67	8.0	1990	0.37	<0.4
5/1/89	71	8.0	1820	0.37	0.5
5/10/89	70	8.2	1790	0.36	<0.4
5/17/89	75	8.4	1630	0.34	0.4
5/24/89	70	8.0	1630	0.37	0.6
5/30/89	76	8.2	1760	0.41	0.6
6/7/89	78	7.5	1880	0.40	0.8
6/14/89	75		1600	0.32	0.5
6/21/89	76		1540	0.36	0.5

Table-A1 San Joaquin River at Lander Avenue (MER522) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/27/89		7.0	1300	0.36	0.6
7/5/89	87	8.6	1690	0.39	0.7
7/12/89	80	8.2	1850	0.38	0.6
7/19/89	80	8.7	1860	0.38	0.9
7/25/89	84	8.7	1880	0.39	0.6
8/1/89	82	9.0	1960	0.42	<0.4
8/9/89	82	9.1	1900	0.40	0.4
8/16/89	84	9.0	1450	0.32	
8/24/89	80	8.5	1240	0.33	0.5
9/1/89	78	8.3	1270	0.34	0.4
9/6/89	75	8.5	1380	0.34	<0.4
9/13/89	77	8.4	1160	0.25	<0.4
9/21/89	71	7.7	1790	0.23	<0.4
9/29/89	69	7.7	940	0.13	<0.4
10/6/89	70	7.8	1340	0.21	0.5
10/13/89	70	7.8	1520	0.25	0.5
10/20/89	69	7.6	1560	0.30	<0.4
10/30/89	60	7.3	1050	0.12	<0.4
11/6/89	60	7.6	1080	0.18	<0.4
11/13/89	60	8.0	950	0.16	<0.4
11/20/89	56	7.2	1070	0.19	0.4
11/30/89	54	8.1	1240	0.23	<0.4
12/8/89	49	8.4	1380	0.26	<0.4
12/15/89	48	8.7	1460	0.26	<0.4
12/21/89	43	7.5	1210	0.21	0.6
12/29/89	44	8.0	1240	0.23	<0.4
1/5/90	44	8.0	1320	0.24	<0.4
1/11/90	44	8.2	1330	0.25	0.7
1/19/90	48	8.1	1500	0.24	<0.4
1/26/90	50	8.1	1220	0.17	1.4
2/2/90	50	7.8	1220	0.19	1.3
2/9/90	50	7.6	1090	0.25	0.7
2/19/90	48	8.6	910	0.22	1.0
2/26/90		8.1	440	0.10	0.4
3/5/90		8.4	990	0.23	0.6
3/9/90	60	8.2	1330	0.28	1.7
3/16/90	68	8.8	1620	0.34	1.5
3/23/90	68	7.1	1550	0.33	1.3
3/30/90	66	8.6	1660	0.34	1.5
4/6/90	72	8.4	1970	0.34	0.8
4/12/90	70	8.7	2080	0.36	0.8
4/20/90	67	8.1	2000	0.37	0.4
4/27/90	73	8.3	2120	0.38	<0.4
5/4/90	83	8.4	2090	0.43	0.4
5/11/90	72	8.4	2090	0.41	0.4
5/18/90	72	8.4	2100	0.40	<0.4
5/25/90	69	8.1	2310	0.38	<0.4
5/31/90	72	8.4	810	0.09	<0.4
6/8/90	75	8.5	1370	0.23	0.4
6/15/90	73	8.3	1500	0.30	0.4
6/22/90	82	8.3	1880	0.33	<0.4
6/28/90	74	9.4	1850	0.38	<0.4
7/6/90	77	9.7	2430	0.52	<0.4
7/13/90	82	9.8	2590	0.62	0.4
7/20/90	81	9.9	2700	0.64	<0.4
7/27/90	82	9.9	2670	0.66	<0.4
8/3/90	78	9.9	2760	0.66	<0.4
8/9/90	86	8.6	2900	0.69	<0.4

Table-A1 San Joaquin River at Lander Avenue (MER522) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/16/90	80	9.7	2940	0.67	<0.4
8/24/90	75	8.6	2190	0.43	0.5
8/31/90	73	9.0	1690	0.37	0.8
9/7/90	73	8.4	1340	0.43	<0.4
9/14/90	76	8.8	1220	0.54	<0.4
9/21/90	68	8.3	1330	0.58	0.8
9/28/90				0.58	<0.4
10/5/90	72	8.0	2720	0.55	0.5
10/12/90	64	8.2	2990	0.67	<0.4
10/19/90	66	8.1	3070	0.70	<0.4
10/26/90	65	8.1	3120	0.75	<0.4
11/2/90	56	8.2	3220	0.74	<0.4
11/9/90	52	7.7	3270	0.74	<0.4
11/16/90	56	8.3	3250	0.73	<0.4
11/27/90	52	8.2	3420	0.72	0.5
12/7/90	50	8.5	3220	0.68	<0.4
12/14/90	46	8.6	3350	0.70	0.7
12/21/90	38	8.1	3370	0.70	0.6
12/28/90	42	8.5	3330	0.72	0.5
1/4/91	44	8.4	3400	0.75	0.4
1/10/91	50	7.8	3300	0.73	0.7
1/18/91	48	7.8	3260	0.65	0.4
1/25/91	48	8.8	3160	0.64	0.6
2/1/91	46	8.3	2320	0.45	0.5
2/8/91	51	8.1	2390	0.49	0.6
2/15/91	59	8.0	1910	0.42	0.6
2/22/91	58	8.0	2190	0.42	0.4
3/1/91	58		2150	0.45	<0.4
3/8/91	62	8.1	1720	0.08	0.5
3/15/91	54	8.6	1110	0.17	0.4
3/21/91	52	7.6	150	<.02	0.5
3/28/91	60	7.8	280	<.02	0.7
4/5/91	69	8.0	877	0.11	0.6
4/11/91	60	8.1	1580	0.26	0.6
4/19/91	64		2130	0.32	0.6
4/25/91	62	7.6	2410	0.31	0.4
5/2/91	67	7.7	2530	0.33	0.8
5/9/91	70	7.9	2270	0.40	0.6
5/16/91	74	8.9	1880	0.38	0.6
5/23/91	76	9.0	1970	0.34	0.7
5/30/91	70	9.4	2070	0.44	0.6
6/7/91	78	8.4	2010	0.37	<0.4
6/14/91	74	7.7	2010	0.38	0.4
6/21/91		8.6	2300	0.40	<0.4
6/28/91	72	8.0	1900	0.39	0.5
7/5/91	82	8.3	1750	0.28	0.4
7/12/91	84	8.4	1960	0.37	<0.4
7/19/91	80	8.7	1760	0.36	0.4
7/26/91	82		1770	0.33	<0.4
7/31/91	81		1840	0.31	<0.4
8/9/91	80	9.0	2390	0.46	<0.4
8/16/91	75		1700	0.41	<0.4
8/23/91	74		2070	0.42	<0.4
8/30/91	76	8.0	2100	0.47	<0.4
9/7/91	78	8.6	2200	0.49	<0.4
9/14/91	78	7.9	2520	0.48	<0.4
9/21/91	76	8.4	2900	0.60	<0.4
9/30/91	78	8.5	3170	0.61	<0.4

Table-A1 San Joaquin River at Lander Avenue (MER522) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/14/91	78	7.9	2520	0.48	<0.4
9/21/91	76	8.4	2900	0.60	<0.4
9/30/91	78	8.5	3170	0.61	<0.4
10/4/91	84	8.4	3290	0.64	<0.4
10/7/91	69	7.8	3510	0.69	<0.4
10/10/91	75	7.1	3470	0.67	<0.4
10/18/91	69	7.9	3580	0.76	<0.4
10/25/91	64	8.2	3680	0.97	<0.4
11/1/91	59	7.8	100		
11/8/91	65	8.0	460	0.08	0.4
11/15/91	60	8.1	1070	0.23	0.5
11/25/91	55	8.5	1550	0.33	
12/6/91	48	8.5	1980	0.42	
12/13/91	48	8.7	2130	0.48	
12/20/91		8.3	2370	0.52	0.6
12/26/91	48	8.5	2440	0.51	<0.4
1/2/92	48	8.4	2530	0.58	<0.4
1/10/92	48	8.4	680	0.13	0.6
1/17/92	46	8.6	1290	0.19	<0.4
1/24/92		8.2	1300	0.21	0.4
1/31/92	48	8.2	1360	0.25	0.5
2/7/92	56	8.1	1480	0.31	0.4
2/14/92	56	8.2	180	0.04	0.5
2/21/92	59	7.9	250	0.04	0.4
3/6/92	59	8.5	1030	0.21	<0.4
3/13/92	65	8.0	975	0.19	<0.4
3/20/92	60	8.4	1580	0.31	<0.4
3/26/92	66	8.0	1550	0.28	<0.4
3/30/92	66	8.2	1720	0.28	0.5
4/2/92	67	8.0	1700	0.26	<0.4
4/9/92	65	8.2	1980	0.33	0.4
4/16/92	69	8.3	2050	0.37	0.4
4/23/92	68	8.3	1890	0.44	0.4
4/30/92	75	8.4	1390	0.25	<0.4
5/7/92	78	8.4	1710	0.33	<0.4
5/15/92	78	8.3	2200	0.41	0.4
5/21/92		8.3	2390	0.44	<0.4
5/28/92	81	8.5	2140	0.42	
5/29/92	80	8.2	2170	0.42	<0.4
6/5/92	85	8.5	2500	0.53	0.6
6/12/92	83	8.4	2770	0.62	0.6
6/19/92	83	8.5	3010	0.69	0.6
6/26/92	79	8.3	3070	0.70	<0.4
7/3/92	78	8.2	3310	0.71	<0.4
7/10/92	81	8.3	3360	0.72	0.4
7/17/92	82	8.3	3480	0.76	<0.4
7/24/92	80	8.6	3680	0.78	<0.4
7/30/92	81	8.5	3840	0.84	<0.4
8/7/92	82	8.6	3730	0.89	<0.4
8/14/92	80	8.4	3870	0.89	<0.4
8/23/92	71	7.9	3770	0.98	<0.4
8/28/92	78	8.4	3770	0.80	<0.4
9/4/92	74	8.2	3860	0.89	<0.4
9/11/92	79	8.3	3770	0.96	<0.4
9/18/92	74	8.3	3990	0.96	<0.4
9/25/92	74	8.1	3850	0.93	<0.4
10/2/92	74	8.2	4030	1.0	0.4
10/9/92	68	8.1	4050	1.1	0.4

Table-A1 San Joaquin River at Lander Avenue (MER522) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/16/92	70	8.2	3980	0.89	0.3
10/23/92	70	8.2	3920	0.89	0.4
10/29/92	65	8.2	3950	0.94	<0.4
11/6/92	66	8.3	4060	1.1	<0.4
11/13/92	58	8.3	4050	1.1	0.6
11/30/92	48		4000	0.97	<0.4
12/4/92	52	8.2	3950	0.93	<0.4
12/14/92	48	8.6	3860	0.94	<0.4
12/22/92	48	8.3	3910	0.97	0.4
12/30/92	47		3850	0.92	<0.4
1/8/93	56	8.2	300	0.06	0.6
1/15/93			130	0.04	0.5
1/22/93	55	8.9	170	0.05	0.5
1/28/93	46	8.7	250	0.04	0.8
2/4/93	54	8.1	490	0.13	1.0
2/10/93	56		190	0.07	0.5
2/19/93	56	7.9	490	0.10	0.5
2/24/93	57	8.3	210	0.04	<0.4
3/5/93	62	8.3	360	0.08	0.7
3/12/93	67	7.6	699	0.12	0.4
3/18/93	66	8.0	844	0.15	0.5
3/26/93	60	7.9	800	0.13	0.4
4/2/93	64	7.8	300	0.06	0.5
4/9/93	68	8.4	350	0.06	0.6
4/16/93	66	8.5	230	0.06	0.4
4/23/93	67	8.7	738	0.13	<0.4
4/30/93	72	8.2	1230	0.23	0.4
5/7/93	71	8.2	1640	0.28	0.7
5/14/93	75	8.1	1790	0.36	1.3
5/21/93	74	7.8	1570	0.32	0.8
5/28/93	74	7.9	1280	0.24	<0.4
6/4/93	73	8.3	814	0.17	0.4
6/11/93	73	8.1	757	0.15	0.4
6/18/93	83	8.2	1290	0.25	0.6
6/25/93	86	7.8	1580	0.28	0.5
7/2/93	82	7.5	1640	0.34	0.5
7/9/93	80	7.5	1250	0.28	0.8
7/16/93	77	8.4	1330	0.30	0.5
7/23/93	82	8.0	1090	0.26	0.5
7/30/93	78	7.8	1220	0.28	0.6
8/6/93	82	8.0	1320	0.33	0.6
8/12/93	83	7.3	1210	0.38	0.7
8/20/93	76	7.5	1110	0.32	0.5
8/27/93	78	7.7	1190	0.33	0.5
9/3/93	83	7.7	1140	0.31	0.7
9/10/93	82	7.7	991	0.24	0.4
9/17/93	71	8.1	1620	0.38	<0.4
9/24/93	74	8.4	1510	0.37	<0.4
10/1/93	79	7.7	1710	0.41	<0.4
10/8/93	72	8.2	1950	0.48	<0.4
10/15/93	70	8.2	1560	0.34	<0.4
10/21/93		8.4	204	0.04	0.4
10/29/93	66	7.9	288	0.06	<0.4
11/5/93	60	7.8	225	0.05	<0.4
11/12/93	60	7.8	361	0.09	0.8
11/22/93	56	8.1	707	0.17	0.6
11/30/93	55	7.9	955	0.20	0.4
12/3/93	53	8.5	990	0.20	<0.4

Table-A1 San Joaquin River at Lander Avenue (MER522) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
12/10/93	56	8.6	1060	0.27	<0.4
12/17/93		8.4	973	0.19	<0.4
12/28/93	48	7.9	925	0.19	<0.4
1/7/94	46	8.2	702	0.34	1.3
1/13/94	50	8.4	920	0.65	1.3
1/21/94	52	8.9	1040	0.34	0.9
1/27/94	51	8.1	300	0.09	0.4
2/3/94	52	8.1	742	0.18	<0.4
2/11/94	54	7.2		0.06	0.5
2/17/94	53	7.7	631	0.14	0.6
2/23/94	54	7.9	324	0.07	<0.4
3/4/94	62	8.0	1100	0.22	0.6
3/9/94	60	7.9	1290	0.31	1.5
3/16/94	65	8.1	866	0.14	<0.4
3/23/94	62	9.0	1190	0.29	0.6
3/31/94	68	9.2	908	0.23	0.5
4/6/94		9.0	1170	0.28	0.6
4/15/94	73	8.4	1320	0.29	<0.4
4/21/94	72	8.1	1470	0.31	<0.4
4/27/94	62	8.1	1180	0.24	<0.4
5/4/94	71	9.0	1010	0.24	0.9
5/10/94	82	8.5	1190	0.26	0.9
5/16/94	70	8.9	1410	0.29	1.8
5/25/94	77	7.6	1090	0.28	0.5
6/1/94	80	8.4	1130	0.25	1.3
6/15/94	74	8.2	1690	0.40	0.4
6/8/94	67	8.4	1280	0.25	1.0
6/21/94	77	8.2	1570	0.32	1.2
6/29/94	79	7.8	1690	0.36	0.4
7/6/94	80	8.1	1520	0.31	0.6
7/13/94	82	8.5	1620	0.39	0.6
7/21/94	82	8.5	1480	0.38	0.5
7/27/94	72	8.7	1410	0.34	0.8
8/3/94	80	8.4	1430	0.38	<0.4
8/10/94	81	8.6	1450	0.42	1.1
8/16/94	81	8.2	1610	0.42	<0.4
8/24/94	79	8.0	1640	0.45	0.7
8/31/94	84	8.7	1600	0.43	<0.4
9/7/94	78	8.2	1400	0.33	0.9
9/14/94	75	8.9	1390	0.30	0.9
9/22/94	76	7.9	1570	0.40	0.8
9/29/94	74	8.0	1730	0.43	<0.4
10/7/94	70	8.1	2020	0.47	<0.4
10/12/94	61	8.0	2030	0.49	0.6
10/20/94	66	8.2	2070	0.47	<0.4
10/27/94	63	7.6	2260	0.55	<0.4
11/8/94	54	8.1	2450		
11/10/94	56	8.3			
11/18/94	52	7.9	802		
11/22/94	52		839	0.16	<0.4
12/9/94	47		1500		
12/15/94	47		1420		
12/21/94	48		1270		
12/29/94	49	8.2	1340	0.32	0.7
1/5/95	49	8.1	1430		
1/12/95	54	7.1			
1/19/95	50	7.3			
1/26/95	51	8.2	126		0.4

Table-A1 San Joaquin River at Lander Avenue (MER522) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/9/95	56	8.3	604		
2/17/95	56	8.2	530		
2/23/95	61	8.1	830	0.10	0.5
3/3/95	60	8.0	1030		
3/9/95	58	8.1			
3/23/95	55	7.5	236		
3/29/95	67	8.8	186	0.06	0.8
4/6/95	65	9.2	101		
4/13/95	65	7.9	87		
4/21/95	60	8.7	97		
4/26/95	65	8.1	79	0.02	<0.4
5/3/95	67	8.0	81	<.02	<0.4
5/12/95	62	8.6	67		
5/26/95	67	7.8	65	<.05	<0.4
6/2/95	64	7.9	211		
6/9/95	69	8.1	94	0.13	
6/16/95	64	8.0	120		
6/23/95	78	8.5	142		
6/28/95	78	7.7	507	0.10	0.4
7/6/95	76	8.4	61		
7/13/95	71	8.4	46		
7/20/95	77	8.4	73		
7/27/95	82	8.1	302	<.05	<0.4
8/10/95	80	8.2	430		
8/17/95	78	8.3	343		
8/24/95	82	8.5	297		
8/31/95	73	8.4	238	<.05	<0.4
9/7/95	78	8.5	325		
9/15/95	75	8.5	156		
9/22/95	78	8.4	117		
9/28/95	73	7.5	151	<.05	<0.4
Count	382	365	424	399	394
Min	38	6.9	46	<0.01	<0.4
Max	87	9.9	4060	1.1	5.0
Mean	67	8.2	1541	0.35	0.5
Geo Mean	66	8.2	1145	0.26	0.4
Median	69	8.2	1430	0.31	0.5

Table-A2 San Joaquin River at Fremont Ford (MER538)

Location: Latitude 37°18'34", Longitude 120°55'45". In NW 1/4, NW 1/4, Sec. 24, T.7S., R.9E. West Bank at Freemont Ford State Rec. Area, 50ft. south of Hwy 140. 5.4 miles NE of Gustine. River Mile 125.2

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85			1900	1.2	7
6/3/85			1100	1.0	4
7/2/85			1200	0.98	5
8/14/85			1200	0.87	3
8/29/85			1000	0.58	2
9/28/85			640	0.33	<1
10/30/85			1440	0.88	1
12/7/85			1530	1.3	3
12/18/85			2200	1.4	1
1/4/86			1950	1.1	3
1/9/86			2300	1.8	9
1/14/86			1800	1.7	6
2/7/86		8.1	1600	1.5	8
2/16/86		7.9	730	0.42	3
3/2/86		8.9	220	0.13	1
4/2/86					<1
4/19/86		7.5	94	0.09	<1
4/26/86		7.1	230	0.10	<1
5/13/86			340	0.12	<1
6/3/86			350	0.27	1.4
6/16/86			590	0.12	1.6
6/26/86			870	0.53	1.7
8/4/86			940	0.77	4.7
9/2/86			1000	0.86	5.1
9/27/86			570	0.44	3.1
11/4/86				0.81	7.4
12/4/86		7.7		1.6	13
1/2/87			2200	1.9	12
1/30/87			2200	2.4	18
2/27/87			2880	3.2	26
4/1/87			2190	1.9	13
5/1/87			1680	1.3	7.7
6/1/87			1590	1.5	10
7/1/87			1800	2.1	11
7/15/87			1700	1.6	8.5
7/31/87			1500	1.2	9.5
8/17/87			1610	1	6.1
9/1/87			1330	0.88	4.3
9/18/87			1760	1.3	9.5
10/1/87	76	7.8	1640	1.1	8.8
10/15/87	63	6.9	1260	0.41	1.3
11/3/87	57	8.3	1850	1.9	4.7
11/17/87	54	8.0	1970	1.7	7.5
12/1/87	53	7.8	2340	1.8	7.6
12/14/87	40	7.9	2870	2.3	8.2
1/5/88	50		2950	2.6	16
1/15/88	50	7.7	2850	2.7	17
1/28/88	54		2850	2.1	13
2/16/88	54	8.2	2700	2.8	23
2/24/88	59	8.1	2700	2.8	
3/2/88	58	8.1	2100	1.9	14
3/9/88	60		2150	1.8	14
3/18/88	62	8.6	2200	1.8	12
3/24/88	60	7.3	2350	2.1	14

Table A-2. San Joaquin River at Fremont Ford (MER538) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/30/88	58	8.0	2500	2.4	20
4/8/88	63	7.8	2650	2.6	19
4/15/88	60		2100	1.8	18
4/22/88	61	7.8	1750	1.2	9.8
4/28/88	65	8.1	1900	1.6	12
5/5/88	62	8.0	2350	2.4	14
5/11/88	67	7.7	1700	1.6	9.9
5/19/88	70	8.0	1950	1.6	12
5/25/88	77	7.9	1800	1.4	8.8
6/1/88	72	7.9	1550	1.2	7.2
6/6/88	69	7.0	1650	1.6	8.4
6/13/88	76	7.8	1950	1.8	12
6/23/88	75	7.5	1850	1.8	11
6/29/88	67	8.0	1900	1.9	11
7/6/88	78	8.7	1800	1.7	13
7/13/88	76	7.9	2050	2.1	14
7/20/88	79	8.2	2250	2.4	17
7/27/88	82	8.1	2200	2.2	14
8/1/88	80	8.1	2000	1.9	15
8/9/88	78	8.1	1750	1.5	11
8/16/88	73	8.3	1800	1.7	12
8/23/88	75	7.7	1640	1.7	13
9/1/88	82		1750	1.5	12
9/8/88	78		1920	1.8	14
9/15/88	72		1700	1.2	11
9/20/88	66		1600	1.2	8.6
9/29/88	68	7.8	1560	0.98	8.2
10/4/88	69		1790	1.2	12
10/11/88	70	7.5	1400	0.78	6.0
10/17/88	72		1300	0.67	3.4
10/25/88	69	7.6	1500	1.2	6.5
11/1/88	66	7.7	1660	1.2	6.8
11/10/88	60	7.8	2180	1.6	6.7
11/15/88	56	7.9	2000	1.5	7.8
11/22/88	54	7.8	2550	1.9	10
12/8/88	52		2060	1.5	5.6
12/28/88	42		2900	2.5	11
1/11/89	46		2350	2.1	9.9
1/26/89	50		3150	2.9	25
1/31/89	50		2900	2.9	23
2/7/89	43		2500		20
2/14/89	47	7.8	2220	2.0	17
2/21/89	60		2640	2.4	22
3/1/89	57	7.8	3300	3.3	32
3/7/89	63	7.7	2100	1.9	15
3/15/89	61		2700	2.4	19
3/21/89	64		2530	2.2	22
3/29/89	64	7.6	1750	1.3	12
4/5/89	63	7.0	2840	2.2	24
4/12/89	74	7.6	2080	1.7	19
4/20/89	68		2300	2.6	12
4/26/89	63	7.8	2400	2.2	20
5/1/89	68	7.7	2470	2.5	27
5/10/89	66	7.8	2350	2.4	23
5/17/89	75	7.8	2010	2.0	16
5/24/89	68	7.9	1690	1.6	14
5/30/89	73	8.3	1870	1.9	14
6/7/89	76	7.5	2420	2.3	21

Table A-2. San Joaquin River at Fremont Ford (MER538) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/14/89	71		2080	2.2	16
6/21/89	72		1980	2.2	14
6/27/89		7.3	1420	1.6	12
7/5/89	84	8.0	1850	1.8	13
7/12/89	76	7.8	2070	2.2	15
7/19/89	80	8.0	1520	1.6	10
7/25/89	77	7.7	1690	1.8	12
8/1/89	81	8.8	1310	1.2	7.7
8/9/89	81	8.9	1650	1.7	11
8/16/89	80	8.2	1470	1.4	8.3
8/24/89	78	8.6	1490	1.6	8.6
9/1/89	74	8.4	1660	1.6	10
9/6/89	75	8.3	1500	1.4	8.9
9/13/89	72	7.8	1600	1.4	11
9/21/89	68	7.2	1630	1.3	6.4
9/29/89	67	7.4	1680	1.4	12
10/6/89	68	7.8	1760	1.6	11
10/13/89	66	7.7	1540	1.1	7.1
10/20/89	67	6.5	1630	1.4	9.5
10/30/89	58	7.5	1580	1.3	5.7
11/6/89	58	7.8	1650	1.3	6.5
11/13/89	58	7.4	1700	1.2	6.2
11/20/89	53	7.4	1850	1.4	6.8
11/30/89	50	8.1	1810	1.3	5.9
12/8/89	48	7.7	2220	1.9	11
12/15/89	44	8.2	2050	1.7	11
12/21/89	43	7.5	2690	1.9	17
12/29/89	44	7.9	2810	2.4	22
1/5/90	42	8.0	2820	2.3	22
1/11/90	45	8.0	3050	2.8	23
1/19/90	48		2800	2.4	25
1/26/90	49	7.9	3060	2.9	31
2/2/90	50	8.1	3070	2.9	33
2/9/90	50	7.4	2810	2.6	24
2/19/90	48	8.1	2420	2.2	27
2/26/90		7.4	2380	2.5	19
3/5/90		7.9	2250	2.0	17
3/9/90	60	7.9	2640	2.2	20
3/16/90	62	8.1	2680	2.4	22
3/23/90	67	7.1	2530	2.0	15
3/30/90	64	8.0	2950	2.5	23
4/6/90	68	7.7	2960	2.6	23
4/12/90	70	7.9	2670	2.1	14
4/20/90	65	7.9	2440	2.6	14
4/27/90		7.9	2970	2.5	20
5/4/90	76	7.9	2830	2.6	25
5/11/90	70	8.1	2840	2.8	27
5/18/90	70	8.1	2780	2.7	20
5/25/90	65	8.0	2460	2.4	16
5/31/90	70	8.3	2030	1.6	13
6/8/90	71	7.9	2940	2.9	19
6/15/90	71	8.1	3040	3.2	20
6/22/90	78	8.1	2850	3.3	18
6/28/90	74	9.5	1910	2.2	9.8
7/6/90	76	9.3	1910	2.0	11
7/13/90	80	9.5	2400	2.8	14
7/20/90	78	9.7	1520	1.4	7.2
7/27/90	80	9.7	1750	1.8	9.4

Table A-2. San Joaquin River at Fremont Ford (MER538) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/3/90	76	9.7	2700	1.8	8.3
8/9/90	83	8.2	1780	1.8	10
8/16/90	74	10	1450	1.2	7.2
8/24/90	72	7.6	1390	1.1	7.9
8/31/90	71	8.4	1430	1.1	8.4
9/7/90	70	8.0	1510	1.3	9.4
9/14/90	70	8.8	1310	0.82	4.4
9/21/90	68	8.0	1370	1.2	8.4
9/28/90	70		1180	0.99	6.7
10/5/90	72	8.1	1390	1.1	10
10/12/90	64	8.1	1080	0.58	2.6
10/19/90	64	8.2	1440	0.80	3.8
10/26/90	66	8.2	1490	0.60	1.0
11/2/90	52	8.1	1190	0.48	0.9
11/9/90	50	8.0	1390	0.78	1.7
11/16/90	56	8.2	1660	0.87	3.7
11/27/90	50	8.2	2450	1.2	1.5
12/7/90	47	8.1	3570	3.0	19
12/14/90	44	8.3	3450	2.9	20
12/21/90	38	8.1	3840	3.3	21
12/28/90	40	8.0	3520	3.0	20
1/4/91	46	8.0	3790	3.1	19
1/10/91	54	8.0	4100	3.6	25
1/15/91	50	7.6	4290	4.4	29
1/18/91	47	8.0	3340	2.8	21
1/25/91	49	8.5	4190	4.0	24
2/1/91	48	7.9	3790	3.1	19
2/8/91	53	8.0	3500	3.6	23
2/15/91	57	8.1	3410	3.6	21
2/22/91	59	7.9	3460	2.8	18
3/1/91	58		2250	2.0	14
3/8/91	58	7.9	2660	1.9	12
3/15/91	52	8.6	2770	2.4	21
3/21/91	52	7.6	600	0.37	2.9
3/28/91	60	7.5	1100	0.67	5.3
4/5/91	69	7.7	2780	2.5	17
4/11/91	56	8.0	3400	3.3	17
4/19/91	64		3230	3.0	23
4/25/91	61	7.6	2620	2.3	14
5/2/91	61	7.6	3060	2.5	17
5/9/91	68	7.8	2730	2.3	15
5/16/91	72	8.2	3200	2.9	21
5/23/91	74	8.4	2630	1.8	15
5/30/91	70	9.2	2920	2.5	22
6/7/91	76	8.6	3520	4.2	30
6/14/91	68	7.7	2520	2.0	12
6/21/91		8.5	2800	2.1	16
6/28/91	69		1880	0.83	3.8
7/5/91	80	8.3	1950	0.80	3.8
7/12/91	82	8.7	1870	0.87	3.3
7/19/91	76	8.8	1710	0.82	3.8
7/26/91	78		1650	0.67	4.5
7/31/91	77		1380	0.54	2.8
8/9/91	80	9.1	1250	0.40	1.3
8/16/91	75		1220	0.47	1.6
8/23/91	70		1780	0.78	2.6
9/7/91	76	8.6	2010	0.79	2.3
9/14/91	76	8.2	1400	0.68	3.6

Table A-2. San Joaquin River at Fremont Ford (MER538) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/21/91	74	8.3	2250	1.0	2.6
9/30/91	76	8.6	2650	1.9	9.8
10/4/91	82	8.5	2540	1.0	2.1
10/7/91	66	7.7	2780	1.6	8.7
10/10/91	76	8.2	2240	0.75	1.5
10/18/91	66	7.8	2400	0.78	1.0
10/25/91	60	8.0	2870	1.3	1.1
11/1/91	59	7.9	820	0.28	0.8
11/8/91	66	8.0	1680	1.3	11
11/15/91	60	8.1	2540	2.1	14
11/25/91	51	8.0	2000	1.2	4.4
12/6/91	43	8.1	2660	1.5	3.1
12/13/91	48	8.6	2530	1.6	3.3
12/20/91		8.3	2720	1.9	8.0
12/26/91	45	8.3	3080	2.4	11
1/2/92	46	8.2	3340	2.8	13
1/10/92	48	7.9	3040	2.8	17
1/17/92	46	8.2	3350	2.9	15
1/24/92		8.2	3780	3.1	17
1/31/92	50	8.0	3800	3.5	20
2/7/92	56	8.0	3510	3.1	18
2/14/92	56	7.8	1830	1.1	6.4
2/21/92	58	7.8	1220	0.93	5.1
2/28/92	64	7.6	2910	3.1	17
3/6/92	58	7.9	3040	3.0	19
3/13/92	66	7.8	2790		15
3/20/92	60	8.0	3070	2.7	17
3/23/92	62	7.8	2190	1.9	11
3/26/92	65	7.7	2130	1.7	8.9
3/30/92	63	7.9	2480	2.3	13
4/2/92	66	7.9	2680	2.4	13
4/6/92	62	8.0	2890	2.6	19
4/9/92	64	7.9	2910	2.6	20
4/13/92	64	8.1	2970	3.0	22
4/16/92	66	8.1	2730	2.6	17
4/20/92	66	8.2	2320	2.2	16
4/23/92	65	8.1	2810	2.5	16
4/27/92	70	8.0	2850	2.2	15
4/30/92	76	8.0	2710	2.2	18
5/7/92	74	7.7	3400	2.4	14
5/15/92	76	8.2	3110	1.8	11
5/21/92	83	8.6	2780	4.9	0.9
5/29/92	79	8.4	3350	2.4	16
6/5/92	80	8.4	3360	3.6	25
6/12/92	73	8.7	2970	3.5	20
6/19/92	83	9.2	2590	2.0	11
6/26/92	76	7.9	1990	0.93	3.2
7/3/92	79	8.4	1640	0.82	1.9
7/10/92	81	8.5	2320	1.0	4.1
7/17/92	80	8.3	1950	0.74	1.9
7/24/92	76	8.7	1850	0.76	1.7
7/30/92	76	8.4	1830	0.57	1.9
8/7/92	80	8.4	2060	0.62	0.8
8/14/92	78	8.3	2240	0.65	1.0
8/23/92	70	8.1	1310	0.46	1.2
8/28/92	76	7.6	1760	0.57	0.8
9/4/92	72	7.9	2090	0.62	0.9
9/11/92	79	7.8	2320	0.80	1.0

Table A-2. San Joaquin River at Fremont Ford (MER538) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/18/92	74	8.1	2400	0.99	4.3
9/25/92	68	8.3	2670	0.93	1.2
10/2/92	70	7.6	2410	0.80	1.2
10/9/92	65	7.9	2200	0.87	0.8
10/16/92	68	8.0	2680	0.87	0.6
10/23/92	65	8.3	2100	0.76	0.8
10/29/92	62	7.2	2250	0.92	0.6
11/6/92	64	8.3	2330	2.1	9.7
11/13/92	54	8.3	3060	3.0	14
11/30/92	48		2740	1.0	0.6
12/4/92	50	8.5	2470	1.1	0.6
12/14/92	47	8.1	3040	3.4	21
12/22/92	48	8.3	3710	3.4	21
12/30/92	46		3710	1.3	0.7
1/8/93	56	7.9	1770	1.4	9.0
1/15/93			210	0.10	0.8
1/22/93	54	8.7	550	0.47	2.3
1/28/93	46	8.4	1340	1.1	9.6
2/4/93	53	8.0	2680	2.8	18
2/10/93	56		760	0.55	3.3
2/19/93	56	7.6	2330	2.1	15
2/24/93	57	8.1	1130	0.96	6.2
3/5/93	62	7.8	1520	1.2	7.2
3/12/93	64	7.3	2820	2.1	17
3/18/93	66	7.9	610	1.8	14
3/26/93	61	7.5	2080	1.7	11
4/2/93	64	7.7	1240	1.0	5.6
4/9/93	68	7.9	1930	1.4	11
4/16/93	66	8.0	1240	1.0	7.7
4/23/93	66	7.8	1750	1.0	5.8
4/30/93	72	7.9	2990	2.4	22
5/7/93	71	8.0	2850	2.4	22
5/14/93	72	7.8	3170	2.9	29
5/21/93	75	7.7	2660	2.5	19
5/28/93	72	8.2	1860	1.6	10
6/4/93	71	8.1	2140	2.0	15
6/11/93	73	7.9	2160	2.4	15
6/18/93	78	8.1	2850	3.5	23
6/25/93	82	8.1	2350	2.4	19
7/2/93	82	7.8	2350	2.5	20
7/9/93	77	7.4	2280	2.2	19
7/16/93	76	8.7	1970	2.2	17
7/23/93	80	8.3	1960	2.1	15
7/30/93	78	8.2	1870	2.1	15
8/6/93	80	8.3	1990	2.3	16
8/12/93	79	7.9	1780	1.9	13
8/20/93	74	7.8	1760	2.1	13
8/27/93	78	7.9	1950	2.2	19
9/3/93	82	8.0	1400	1.2	9.2
9/10/93	80	7.9	1620	1.6	13
9/17/93	69	8.0	2170	1.6	12
9/24/93	72	8.1	1350	0.78	2.6
10/1/93	78	7.8	1540	0.69	1.2
10/8/93	70	8.1	1430	0.67	1.5
10/15/93	70	8.0	1520	1.4	3.5
10/21/93		7.9	1270	1.1	4.7
10/29/93	66	7.8	1320	1.2	4.0
11/5/93	62	7.6	1110	0.95	4.8

Table A-2. San Joaquin River at Fremont Ford (MER538) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
11/12/93	58	7.6	1440	1.1	4.6
11/22/93	56	7.8	1880	1.6	8.8
11/30/93	55	7.7	1980	1.7	9.7
12/3/93	51	7.8	2120	1.9	11
12/10/93	56	7.8	1740	1.4	2.5
12/17/93		8.0	1710	1.6	7.8
12/28/93	48	7.7	2450	2.1	11
1/7/94	47	7.9	1990	1.7	7.5
1/13/94	50	7.9	2950	2.9	16
1/21/94	53	8.3	2840	2.6	18
1/27/94	52	7.9	2070	1.8	11
2/3/94	51	7.6	2830	2.5	19
2/11/94	52	7.5	1220	1.1	7.5
2/17/94	52	7.4	2280	2.0	19
2/23/94	53	7.8	1280	1.1	6.4
3/4/94	62	7.7	2600	2.3	21
3/9/94	64	8.0	2550	2.2	22
3/16/94	65	7.7	2550	2.2	16
3/23/94	60	7.6	2730	2.7	22
3/31/94	68	7.9	2620	2.6	22
4/6/94		7.8	2850	2.6	21
4/15/94	71	7.5	2820	2.2	19
4/21/94	71	7.8	3010	2.8	21
4/27/94	62	7.6	2860	2.3	21
5/4/94	72	7.8	2900	2.1	20
5/10/94	80	8.0	2210	1.9	18
5/16/94	69	8.0	3590	3.3	32
5/25/94	72	6.9	2830	2.7	23
6/1/94	78	8.0	2580	2.6	22
6/8/94	65	8.1	3270	3.6	28
6/15/94	72	8.6	3550	4.0	27
6/21/94	76	8.2	2970	3.2	26
6/29/94	72	7.2	2860	3.1	29
7/6/94	79	7.9	2540	2.2	28
7/13/94	82	8.2	3010	3.2	35
7/21/94	80	8.1	2370	2.7	23
7/27/94	73	8.0	2050	2.1	17
8/3/94	77	8.2	1980	1.9	15
8/10/94	80	8.3	2400	2.6	26
8/16/94	79	7.1	2730	3.0	27
8/24/94	78	7.9	2270	2.4	19
8/31/94	81	8.7	2160	2.1	16
9/7/94	76	8.1	2060	1.6	15
9/14/94	74	8.5	2800	2.7	26
9/22/94	76	8.1	2650	1.9	19
9/29/94	72	7.8	2350	1.9	19
10/7/94	68	8.1	2030	0.76	1.3
10/12/94	60	8.1	2610	0.96	1.0
10/20/94	66	8.1	1990	1.3	8.2
10/27/94	62	7.2	2060	1.6	15
11/8/94	52	8.1	2070	1.4	5.0
11/10/94	54	8.0	2650	1.8	11
11/18/94	52	7.7	2490	1.5	6.5
11/22/94			3010	2.1	13
12/9/94	48		2450	1.9	9.6
12/15/94	48		2930	2.4	16
12/21/94	49		3030	2.2	10
12/29/94	46	7.4	2850	2.2	11

Table A-2. San Joaquin River at Fremont Ford (MER538) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
1/5/95	49	7.7	2530	1.9	11
1/12/95	55	7.4	4053	0.26	1.3
1/19/95	50	7.3		0.59	1.4
1/26/95	53	8.4		0.08	0.8
2/9/95	56	8.2	2360	2.3	16
2/17/95	55	7.8	2620	2.5	23
2/23/95	60	7.8	2980	3.0	25
3/3/95	58	7.7	2830	2.7	25
3/9/95	58	8.0	2490	2.1	19
3/23/95	55	7.4	477	0.27	2.9
3/29/95	67	8.6	228	0.08	1.1
4/6/95	65	9.2	121	<.05	0.6
4/12/95	69	8.0	143	0.06	0.6
4/21/95	60	8.4	245	0.07	1.4
4/26/95	65	7.8	107	0.03	0.4
5/3/95	69	8.2	92	<.02	<0.4
5/12/95	64	8.2	75	<.02	<0.4
5/26/95	67	8.2	64	<.05	<0.4
6/2/95	71	8.1	77	<.05	<0.4
6/9/95	69	8.1	284	0.22	2.0
6/16/95	66	7.8	517	0.41	3.1
6/23/95	78	8.3	631	0.59	4.5
6/28/95	78	7.7	1570	1.3	10
7/6/95	76	8.3	264		1.7
7/13/95	70	8.7	113	0.08	0.7
7/20/95	79	8.0	276	0.23	2.1
7/27/95	84	7.8	1130	1.1	7.7
8/10/95	80	8.0	1260	1.0	9.5
8/17/95	77	8.1	1190	1.1	8.2
8/24/95	82	8.1	1200	1.0	9.1
8/31/95	74	8.2	895	0.77	5.5
9/7/95	78	8.1	1340	1.2	11
9/15/95	75	7.9	857	0.71	7.1
9/22/95	78	7.8	662	0.50	4.1
9/28/95	74	7.5	765	0.43	3.4
Count	386	365	432	433	436
Min	38	6.5	64	0.03	<0.4
Max	84	10	4290	4.9	35
Mean	65	8.0	2110	1.7	12
Geo Mean	64	8.0	1850	1.4	8.0
Median	66	8.0	2130	1.8	11

Table-A3 San Joaquin River at Hills Ferry Road (STC512)

Location: Latitude 37°20'33", Longitude 120°58'38". In NE 1/4, SE 1/4, NE 1/4, Sec. 9, T.7S., R.9E. West Bank, 0.9 mi. SE of Hills Ferry Road at an abandoned tallow factory, immediately upstream of Merced River inflow, 3.3 mi. NE of Newman. River Mile 118.1

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85			2200	1.6	7
6/3/85			1300	1.2	4
7/2/85			1450	1.2	8
8/14/85			1350	0.98	4
8/29/85			1200	0.90	3
9/27/85			730	0.45	1
10/30/85			1520	1.1	1
12/18/85			2400	2.1	<1
1/3/86			2500	1.9	6
1/9/86			2600	2.2	8
1/14/86			2400	1.8	7
2/1/86		8.3	2200	2.2	7
2/7/86		8.2	1950	1.7	6
2/16/86		8.1	1100	0.82	4
3/1/86		8.1	560	0.49	2
4/2/86					2
4/19/86		7.7	420	0.39	2
4/26/86		7.4	410	0.29	2
5/12/86		8.1	570	0.32	2
6/3/86		7.8	700	0.68	3.4
6/16/86			890	0.55	4.1
6/26/86		8.1	1100	1.1	5.6
8/4/86			1200	1.0	6.5
9/2/86			1020	0.81	4.6
9/27/86			640	0.41	2.9
11/4/86				0.53	7.7
12/4/86		7.6		1.1	6.6
1/2/87			2200	2.0	11
1/30/87		7.9	2200	2.5	11
2/27/87		8.1	2600	3.0	21
4/1/87					13
5/1/87		7.7			6.7
6/1/87		8.1	1710	1.6	9.5
6/15/87		8.2		2.2	12
7/1/87		7.9	1600	1.7	8.1
7/15/87		7.8	1700	1.7	8.9
7/31/87		8.1	1700	1.4	11
8/17/87		7.9	1930	1.5	11
9/1/87		8.1	1610	1.3	21
9/18/87		8.0	1730	1.3	7.6
10/1/87	76	7.7	1710	1.1	6.3
10/15/87	62	7.9	1380	0.57	1.0
11/3/87	57	7.6	1700	1.4	4.0
11/17/87	54	7.9	2150	1.6	6.1
12/1/87	52	7.7	2370	1.7	6.4
12/14/87	40	8.1	2830	2.2	6.4
1/5/88	51	8.1	2950	2.2	9.2
1/15/88	50	7.9	2900	2.5	12
1/28/88	54	7.9	2800	2.1	9.3
2/16/88	55	8.1	2850	2.8	17
2/19/88	55		3100	3.1	20
3/2/88	57		2350	2.0	12
3/9/88	62		2350	2.1	14
3/18/88	61		2550	2.2	11

Table-A3 San Joaquin River at Hills Ferry Road (STC512) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/24/88	63		2550	2.4	10
3/30/88	57		2650	2.8	12
4/8/88	60	7.9	2730	2.3	13
4/15/88	60	7.7	2380	1.9	16
4/22/88	61	7.7	1850	1.4	9.0
4/28/88	69	7.7	2000	1.6	11
5/11/88	71	7.8	1930	1.4	8.3
5/19/88	68	8.0	2050	1.5	9.4
5/25/88	75	7.7	1750	1.4	7.8
6/1/88	70	7.3	1740	1.5	9.2
6/6/88	69	7.8	1900	1.7	9.9
6/13/88	75	7.3	2080	2.2	11
6/23/88	76	7.9	1890	1.7	11
6/29/88	68	7.9	1930	1.9	10
7/6/88	79	8.0	1850	1.8	12
7/13/88	75	8.3	1990	2.0	12
7/20/88	80	7.7	2210	2.3	14
7/27/88	84	8.3	1920	1.9	11
8/1/88	78	7.8	1990	2.0	13
8/9/88	76	7.7	1770	1.6	9.8
8/16/88	72	7.9	1730	1.5	10
8/23/88	75	8.2	1740	1.5	12
9/1/88	78	8.2	1760	1.4	9.1
9/8/88	77	7.9	1870	1.6	13
9/15/88	71	8.1	1710	1.2	8.9
9/20/88	68	8.0	1580	1.1	7.9
9/29/88	68	7.9	1660	1.0	8.6
10/4/88	64	8.2	1870	1.4	13
10/11/88	69	7.1	1400	0.71	5.6
10/17/88	71		1360	0.69	2.8
10/25/88	68	7.7	1450	1.0	5.7
11/1/88	65	7.6	1710	1.2	4.3
11/10/88	60	7.8	2290	1.6	7.2
11/15/88	56	7.9	2120	1.5	4.8
11/22/88	53	7.7	2600	1.8	9.4
12/8/88	52		2100	1.5	4.7
12/28/88	42		2650	2.0	6.2
1/11/89	45		2400	1.8	7.6
1/26/89	50		3250	2.6	16
1/31/89	50		2960	2.6	17
2/7/89	41		2650	2.0	15
2/14/89	47	8.0	2350	1.9	12
2/21/89	61		2890	2.4	23
3/1/89	56	7.7	3350	3.0	23
3/7/89	61	7.7	2250	1.8	12
3/15/89	60		2900	2.4	18
3/21/89	65		2750	2.2	20
3/29/89	64	7.3	1730	1.3	11
4/12/89	75	7.5	2200	1.8	19
4/20/89	70		1880	1.8	6.1
4/26/89	62	8.0	2410	2.2	12
5/1/89	66	7.3	1370	1.2	6.4
5/10/89	64	7.6	2330	2.2	19
5/17/89	72	7.6	2120	2.0	15
5/24/89	66	7.6	1730	1.6	12
5/30/89	70	7.6	1930	1.7	13
6/7/89	76	7.4	2320	2.1	18
6/14/89	71		2080	2.0	14

Table-A3 San Joaquin River at Hills Ferry Road (STC512) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/21/89	72		1900	1.9	12
6/27/89		7.8	1500	1.2	9.8
7/5/89	84	8.2	1920	2.1	12
7/12/89	75	7.6	2030	1.8	13
7/19/89	79	7.8	1490	1.3	8.3
7/25/89	80	8.1	1680	1.6	9.9
8/1/89	80	8.5	1380	1.2	7.3
8/9/89	79	8.5	1650	1.5	9.3
8/16/89	78	8.0	1540	1.4	8.8
8/24/89	79	8.6	1520	1.5	7.7
9/1/89	76	8.5	1690	1.5	8.1
9/6/89	72	8.1	1540	1.3	7.6
9/13/89	73	7.9	1640	1.3	8.4
9/21/89	69	7.6	1570	1.2	5.0
9/29/89	66	8.0	1700	1.2	8.5
10/6/89	69	7.9	1850	1.3	10
10/13/89	68	7.9	1550	1.0	5.5
10/20/89	67	7.6	1520	1.2	6.3
10/30/89	58	7.5	1380	1.1	2.7
11/6/89	58	7.5	1630	1.2	5.6
11/13/89	60	7.4	1690		5.1
11/20/89	55	7.6	1800	1.2	5.5
11/30/89	49	7.2	1690	1.2	4.0
12/8/89	49	8.0	1990	1.4	6.6
12/15/89	44	8.2	1940	1.5	6.1
12/21/89	43	7.3	2390	1.8	9.6
12/29/89	42	8.0	2490	1.8	13
1/5/90	42	8.0	2940	2.2	15
1/11/90	45	7.8	2920	2.3	15
1/19/90	46	7.8	2550	2.2	14
1/26/90	50	8.0	3060	2.6	21
2/2/90	52	7.2	3140	2.8	26
2/9/90	50	8.1	2870	2.5	20
2/19/90	48	8.1	2630	2.4	21
2/26/90				2.4	16
3/5/90		7.4	2530	2.2	16
3/9/90	60	8.0	2770	2.2	18
3/16/90	62	7.0	4120	2.5	17
3/23/90	68	7.2	2690	2.0	14
3/30/90	73		3080	2.7	19
4/6/90	68	7.8	3190	2.6	22
4/12/90	64	7.9	2710	2.0	14
4/20/90	65	8.0	2890	2.8	11
4/27/90	74	8.1	3160	2.2	12
5/4/90	76	8.0	2810	2.2	18
5/11/90	68	8.0	2820	2.5	21
5/18/90	70	8.2	2910	2.7	17
5/25/90	66	8.2	2570	2.4	17
5/31/90	70	7.8	2170	1.7	13
6/8/90	70	7.8	2940	2.5	16
6/15/90	71	8.4	3040	3.0	16
6/22/90	78	7.9	2770	3.2	16
6/28/90	72	7.9	2050	2.1	6.0
7/6/90	73	9.0	2030	2.1	11
7/13/90	80	9.0	2310	2.4	11
7/20/90	78	9.3	1670	1.6	7.6
7/27/90	74	9.0	1730	1.7	6.7
8/3/90	77	9.4	3040	2.0	10

Table-A3 San Joaquin River at Hills Ferry Road (STC512) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/9/90	86	8.2	1780	1.8	10
8/16/90	76	9.2	1460	1.2	5.8
8/24/90	74	7.7	1460	1.0	6.4
8/31/90	71	8.5	1570	1.2	7.8
9/7/90	72	8.0	1120	1.4	10
9/14/90	78	8.7	1410	0.93	3.9
9/21/90	67	8.0	1290	0.88	4.4
9/28/90	69		1340	1.0	7.0
10/5/90	74	8.2	1370	0.90	6.9
10/12/90	62	7.7	1240	0.73	3.1
10/19/90	64	7.6	1560	0.71	2.1
10/26/90	68	8.2	1640	0.68	1.1
11/2/90	50	7.5	1320	0.58	1.0
11/9/90	49	8.0	1420	0.69	1.4
11/16/90	56	8.2	1840	0.86	2.0
11/27/90	52	8.3	2750	1.4	1.1
12/7/90	43	7.4	3300	2.0	4.8
12/14/90	43	8.0	3670	2.9	20
12/21/90	40	8.2	3960	3.1	17
12/28/90	38	7.5	3500	2.6	14
1/4/91	44	7.6	3790	2.9	15
1/10/91	54	7.8	3880	3.0	16
1/15/91	52	7.9	4010	3.4	19
1/18/91	48	7.9	3410	2.5	14
1/25/91	44	8.3	4360	3.0	21
2/1/91	46	7.4	3770	2.8	13
2/8/91	51	8.1	3450	2.9	15
2/15/91	58	8.1	3520	3.2	16
2/22/91	56	7.4	3850	3.3	18
3/1/91	56		2460	2.0	13
3/8/91	55	7.4	2670	2.0	8.8
3/15/91	53	8.8	3030	2.5	17
3/21/91	52	7.1	750	0.46	3.2
3/28/91	64	7.9	1310	0.91	5.8
4/5/91	69	8.2	2770	2.3	10
4/11/91	58	8.3	3310	3.1	13
4/19/91	62		3390	2.6	19
4/25/91	63	7.9	3060	2.6	14
5/2/91	63	8.0	3300	2.5	14
5/9/91	70	8.3	2870	2.2	12
5/16/91	70	8.0	3290	2.8	16
5/23/91	72	7.7	2680	1.6	9.0
5/30/91	67	8.6	2620	1.7	12
6/7/91	76	8.5	3360	1.8	24
6/14/91	70	8.1	2760	2.2	11
6/21/91		8.6	2500	1.9	12
6/28/91	68		2210	1.4	5.8
7/5/91	80	8.0	2290	1.6	7.4
7/12/91	78	8.0	2180	2.0	8.4
7/19/91	74	8.1	2200	1.8	9.5
7/26/91	76		2050	1.5	9.1
7/31/91	76		1870	1.3	8.5
8/9/91	80	9.0	1630	1.1	5.7
8/16/91	75		1800	1.4	7.7
8/23/91	66		2130	1.9	8.0
8/30/91	72	8.8	2310	2.0	9.3
9/7/91	72	8.0	2520	1.8	9.1
9/14/91	78	8.4	1750	1.2	6.4

Table-A3 San Joaquin River at Hills Ferry Road (STC512) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/21/91	70	7.8	2380	1.6	7.4
9/30/91	69	8.2	2590	1.7	7.3
10/4/91	84	8.6	2620	1.2	2.2
10/7/91	68	7.8	2790	1.2	2.1
10/10/91	78	8.2	2390	0.84	1.6
10/18/91	61	7.6	2150	0.75	1.0
10/25/91	58	7.6	2540	1.1	1.1
11/1/91	59	7.9	880	0.34	1.0
11/8/91	67	8.0	1500	1.0	6.7
11/15/91	59	8.5	2360	1.8	8.8
11/25/91	49	7.9	2170	1.3	5.3
12/6/91	47	8.1	2790	1.8	4.1
12/13/91	48	8.4	2700	1.7	2.6
12/20/91		8.2	2680	1.8	4.3
12/26/91	46	8.3	3150	2.1	8.2
1/2/92	46	8.2	3140	2.4	8.5
1/10/92	48	8.0	2400	1.9	7.8
1/17/92	46	8.1	3010	2.3	8.6
1/24/92		8.2	3330	2.5	11
1/31/92	48	8.0	3560		14
2/7/92	55	7.8	3580	2.7	14
2/14/92	56	7.8	1930	1.3	5.1
2/21/92	58	7.7	1340	1.1	4.4
2/28/92	64	7.4	2560	2.1	8.6
3/6/92	59	8.0	2950	2.7	13
3/13/92	66	7.8	3000	2.3	13
3/20/92	60	8.0	3020	2.3	11
3/23/92	63	7.8	2410	2.1	9.6
3/26/92	68	7.8	2170	1.8	6.8
3/30/92	62	8.0	2590	2.4	10
4/2/92	69	7.8	2620	2.3	9.0
4/6/92	64	8.1	2940	2.6	12
4/9/92	66	8.1	2920	2.5	14
4/13/92	66	8.1	3040	2.9	17
4/16/92	71	8.1	2940	2.6	14
4/20/92	68	8.3	2640	2.3	13
4/23/92	65	8.3	2980	1.5	13
4/27/92	72	8.2	3240	2.2	15
4/30/92	74	8.4	2890	2.3	15
5/7/92	71	7.7	3620	2.6	15
5/15/92	74	8.1	3330	1.6	6.0
5/21/92	73	8.3	2630	1.8	11
5/29/92	76	7.9	3340	1.9	9.3
6/5/92	78	8.1	3230	2.8	16
6/12/92	72	8.6	2950	3.2	19
6/19/92	78	8.8	2870	2.5	17
6/26/92	74	8.1	2530	2.1	13
7/3/92	80	8.3	2250	1.7	7.2
7/10/92	82	8.5	2730	1.7	6.7
7/17/92	86	8.4	2470	2.3	15
7/24/92	78	8.7	2630	1.9	8.8
7/30/92	72	7.4	2170	1.4	6.0
8/7/92	82	8.4	2410		5.1
8/14/92	80	8.3	2250	1.1	3.2
8/23/92	72	7.9	1980	1.5	7.4
8/28/92	72	7.2	2010	1.0	3.0
9/4/92	78	7.8	2230	0.9	1.2
9/11/92	80	8.4	2620	2.6	14

Table-A3 San Joaquin River at Hills Ferry Road (STC512) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/18/92	75	7.8	2270	0.92	1.0
9/25/92	63	7.2	2600	1.0	1.1
10/2/92	70	7.6	2150	0.96	1.2
10/9/92	63	7.7	2280	0.95	0.8
10/16/92	68	8.2	2580	0.90	0.6
10/23/92	68	8.3	2300	0.91	1.3
10/29/92	62	7.9	2390	0.96	1.2
11/5/92	66	7.6	2250	1.6	5.7
11/13/92	55	8.1	2970	2.5	10
11/30/92	48		2980	1.2	0.9
12/4/92	50	8.2	2950	1.2	0.8
12/14/92	45	8.0	2580	2.8	14
12/22/92	49	8.2	3600	3.0	15
12/30/92	45		3650	2.9	16
1/8/93	56	7.8	1910	1.4	7.0
1/15/93			430	0.27	0.7
1/22/93	54	8.5	630	0.54	2.1
1/28/93	46	7.6	1230	1.1	5.0
2/4/93	54	9.3	2590	2.1	11
2/10/93	59		1250	1.0	4.1
2/19/93	57	7.7	2270	1.8	9.0
2/25/93	57	8.5	768	0.57	2.7
3/5/93	62	7.8	1490	1.2	5.6
3/12/93	66	7.4	3030	2.2	15
3/18/93	67	7.7	2720	1.8	8.9
3/25/93		7.6	2770	2.4	14
4/2/93	65	7.8	1300	0.98	4.8
4/9/93	68	7.9	2190	1.6	9.7
4/16/93	65	7.9	1380	1.0	6.3
4/23/93	68	7.8	2050	1.3	4.9
4/29/93	71	7.9	2500	2.2	18
5/7/93	71	8.3	2780	2.2	17
5/14/93	72	7.9	3050	2.7	23
5/21/93	74	7.7	2770	2.2	15
5/26/93	70	7.7	2230	2.0	13
6/4/93	71	8.3	2250	2.0	12
6/11/93	74	7.9	2270	2.3	14
6/18/93	80	8.1	2760	2.5	15
6/24/93	70	6.4	2610	2.4	17
7/2/93	82	7.1	2410	2.3	19
7/9/93	76	7.1	2250	2.1	16
7/16/93	76	8.3	1930	2.0	14
7/23/93	83	7.7	2060	2.0	14
7/29/93	74	5.8	1920	2.1	13
8/6/93	79	7.9	1900	1.8	14
8/12/93	80	7.6	1740	1.7	12
8/20/93	76	7.6	1660	1.8	11
8/26/93	78	7.5	1750	1.8	12
9/3/93	82	7.5	1460	1.2	7.7
9/10/93	82	7.5	1570	1.3	8.0
9/17/93	69	8.1	2210	1.3	5.8
9/23/93	74	7.3	2530	2.2	11
10/8/93	70	8.1	1550	0.70	1.4
10/15/93	70	7.9	1030	0.61	1.3
10/21/93		8.3	1190	0.96	3.7
10/28/93	66	7.7	1080	0.87	2.2
11/5/93	63	7.6	1180	0.94	3.8
11/12/93	58	7.8	1440	0.98	4.1

Table-A3 San Joaquin River at Hills Ferry Road (STC512) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
11/22/93	56	7.5	1700	1.3	6.2
11/28/93	56	7.8	1930	1.8	8.0
12/3/93	52	7.8	1920	1.4	6.7
12/10/93	56	7.8	1830	1.3	3.0
12/17/93		8.1	1580	1.3	6.3
12/28/93	44	8.0	2180	1.8	7.5
1/7/94	48	6.8	1960	1.5	4.7
1/13/94	51	7.8	2610	2.2	7.5
1/21/94	53	8.4	2360	1.9	9.3
1/27/94	51	8.0	1940	1.6	7.5
2/3/94	50	7.6	2650	2.1	12
2/11/94	53	7.7	1240	1.0	6.2
2/17/94	52	7.3	2170	1.9	13
2/23/94	51	7.8	1320	1.1	
3/4/94	62	7.7	2610	2.2	15
3/9/94	64	8.0	2490	2.1	16
3/16/94	64	7.7	2590	2.3	12
3/23/94	58	8.0	2750	2.4	18
3/31/94	66	8.0	2870	2.5	19
4/6/94		8.2	2770	2.3	18
4/15/94	73	7.8	2960	2.1	13
4/21/94	73	7.9	3210	2.5	19
4/27/94	62	7.9	2880	2.2	16
5/4/94	72	7.7	2980	1.8	14
5/10/94	80	7.9	2210	1.7	13
5/16/94	69	7.9	3670	3.2	28
5/25/94	71	6.9	2550	2.5	17
6/1/94	81	8.0	2540	2.3	17
6/8/94	66	7.9	3180	4.0	22
6/15/94	71	8.5	3240	5.0	25
6/21/94	78	8.1	2990	3.3	27
6/29/94	80	7.9	2830	2.9	24
7/6/94	79	7.8	2470	1.9	25
7/13/94	83	8.0	2700	2.3	27
7/21/94	79	8.1	2280	1.7	18
7/27/94	79	8.1	2040	2.1	16
8/3/94	78	8.1	1850	1.8	14
8/10/94	80	8.1	2130	1.3	18
8/16/94	80	7.6	2240	2.3	17
8/24/94	77	7.8	2380	2.4	17
8/31/94	74	7.9	2200	1.9	11
9/7/94	78	8.2	2070	1.6	11
9/14/94	74	8.4	2280	1.5	10
9/22/94	76	8.2	2540	1.4	9.4
9/29/94	70	6.7	2590	1.9	18
10/7/94	69	8.1	2000	0.82	1.4
10/12/94	63	8.0	2360	0.88	0.7
10/20/94	65	8.0	1910	1.3	6.6
10/27/94	64	7.7	1850	1.3	10
11/8/94	51	7.9	1940	1.2	4.0
11/10/94	54	7.9	2430	1.5	6.0
11/18/94	50	7.9	2410	1.6	6.0
11/22/94		8.2	2710	1.8	10
12/1/94	46		2440	1.7	5.8
12/9/94	45		2230	1.6	5.8
12/15/94	48		2510	1.9	8.9
12/21/94	49		2550	1.8	6.3
12/29/94	48	7.5	2460	1.8	7.5

Table-A3 San Joaquin River at Hills Ferry Road (STC512) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
1/5/95	49	7.7	2070	1.4	4.5
1/12/95	55	7.6	1110*	0.82	3.4
1/19/95	49	7.4	863*	0.68	2.2
1/26/95	52	9.0	520	0.27	0.7
2/9/95	56	8.1	2390	2.0	11
2/17/95	56	7.9	2600	2.2	15
2/23/95	59	7.8	3050	2.8	20
3/3/95	64	8.0	2960	2.4	20
3/9/95	58		2590	2.1	16
3/23/95	53	7.3	884	0.63	4.1
3/28/95	67	7.5	785	0.55	3.9
4/6/95	67	8.4	710	0.57	2.8
4/12/95	69	7.4	542	0.44	2.2
4/21/95	61	8.4	427	0.23	1.8
4/26/95	68	7.9	352	0.29	1.5
5/3/95	72	8.4	397	0.28	1.8
5/12/95	66	7.7	351	0.25	1.8
5/26/95	68	7.4	305	0.26	1.4
6/2/95	64	7.9	285	0.22	1.0
6/9/95	69	8.3	327	0.25	1.6
6/16/95	67	7.3	540	0.38	2.5
6/23/95	78	8.4	579	0.48	2.9
6/28/95	81	8.1	1430	1.1	7.5
7/6/95	77	8.1	327	0.17	1.5
7/13/95	71	8.2	258	0.20	1.5
7/20/95	79	7.9	336	0.28	2.2
8/3/95	86	8.1	441		2.2
8/10/95	80	8.0	1340	0.97	7.7
8/17/95	77	8.0	1390	1.2	8.5
8/24/95	82	8.3	1200	0.9	7.9
8/31/95	74	7.9	1160	1.1	7.8
9/7/95	78	8.1	1390	1.2	10
9/15/95	78	7.9	929	0.72	6.5
9/22/95	78	7.9	724	0.45	3.1
9/28/95	71	7.4	1050	0.63	5.4
Count	385	380	428	430	436
Min	38	5.8	258	0.17	0.6
Max	86	9.4	4360	5.0	28
Mean	65	7.9	2170	1.7	10
Geo Mean	64	7.9	1976	1.5	7.6
Median	68	7.9	2220	1.7	9.1

* value reported is a field EC rather than a lab EC

Table-A4 San Joaquin River at Crows Landing Road (STC504)
Location: Latitude 37°25'55", Longitude 121°00'42". In Section 8 T.6S., R.8E.
West Bank, 100 yards south of Crows Landing Road Bridge, 4.2 miles northeast of Crows Landing.
River Mile 107.1

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85			1200	0.70	3
6/3/85			940	0.80	3
7/2/85			1000	0.85	4
8/14/85			1050	0.77	3
8/29/85			990	0.57	2
9/27/85			630	0.27	1
10/30/85			950	0.61	1
12/18/85			1600	1.2	2
1/3/86			1560	1.2	4
1/9/86			1700	1.2	4
1/14/86			1700	0.69	3
2/1/86		8.2	1600	1.2	3
2/7/86		8.2	1250	1.0	4
2/16/86		8.0	750	0.44	2
3/2/86		7.9	480	0.33	1
4/2/86					<1
4/19/86		7.7	290	0.18	1
4/26/86		7.4	270	0.14	1
5/12/86			340	0.27	<1
6/3/86			440	0.38	1.9
6/16/86			600	0.15	2.7
6/26/86			930	0.68	3.4
8/4/86			850	0.61	3.6
9/2/86			780	0.56	3.0
9/26/86			500	0.27	1.6
11/4/86				0.67	3.6
12/4/86		7.6		0.82	5.3
1/2/87			1400	1.0	4.9
1/30/87			1400	1.4	6.6
2/27/87			1990	1.9	12
4/1/87			1950	1.7	8.5
5/1/87			1320	0.77	5.5
6/1/87			1210	0.89	5.9
6/15/87			1480	1.2	6.7
7/1/87			1200	1.0	4.8
7/15/87			1400	1.1	6.2
7/31/87			1300	0.89	5.8
8/17/87			1270	0.94	5.6
9/1/87			1200	0.79	4.8
9/18/87			1220	0.70	3.6
10/1/87	74	7.6	1180	0.61	2.9
10/15/87	62	6.6	1190	0.46	0.8
11/3/87	57	8.1	1400	1.0	3.0
11/17/87	54	7.6	1250	0.79	2.6
12/1/87	51	7.4	1420	0.89	2.8
12/14/87	42	7.7	1680	1.1	2.9
1/5/88	49		1700	1.2	5.2
1/15/88	50	7.8	2000	1.6	7.8
1/28/88	54		1850	1.4	7.8
2/16/88	56	8.1	1950	1.6	12
2/19/88	56	7.7	2000	1.7	12
2/24/88	59	7.7	2000	1.7	
3/2/88	57	7.7	1750	1.4	8.4

Table-A4 San Joaquin River at Crows Landing Road (STC504) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/9/88	60		1750	1.4	8.8
3/18/88	61	8.0	2000	1.7	7.9
3/24/88	64	7.5	1950	1.7	7.4
3/30/88	58	8.0	2150	2.0	10
4/8/88	61	8.0	1850	1.4	6.5
4/15/88	60		1650	1.2	8.5
4/22/88	63	7.9	1500	1.0	7.5
4/28/88	71	7.8	1450	1.0	6.3
5/11/88	72	7.6	1300	1.0	5.6
5/19/88	66	7.7	1600	1.1	6.5
5/25/88	74	7.9	1300	0.90	4.8
6/1/88	72	8.0	1200	1.0	5.6
6/6/88	68	7.1	1300	1.1	6.0
6/13/88	74	7.7	1600	1.4	7.7
6/23/88	78	7.5	1550	1.2	8.2
6/29/88	68	7.9	1500	1.3	7.0
7/6/88	78	8.4	1480	1.3	7.4
7/13/88	76	7.2	1750	1.5	8.9
7/20/88	82	8.2	1850	1.5	9.2
7/27/88	82		1710	1.3	7.7
8/1/88	79	8.4	1650	1.4	8.3
8/9/88	78	8.0	1550	1.2	7.4
8/16/88	73	8.1	1550	1.2	8.7
8/23/88	78	7.8	1320	1.1	7.0
9/1/88	79		1560	1.1	7.4
9/8/88	75		1620	1.2	7.6
9/15/88	71		1550	0.95	6.6
9/20/88	68		1550	1.0	6.3
9/29/88	68	8.1	1500	0.85	6.8
10/4/88	64	8.4	1640	0.88	6.9
10/11/88	68	5.9	1400	0.68	4.6
10/17/88	70		1480	0.88	5.8
10/25/88	67	7.8	1300	0.80	4.5
11/1/88	64	7.6	1450	0.90	3.5
11/10/88	60	7.7	1520	0.92	3.4
11/15/88	57	7.7	1570	1.0	5.0
11/22/88	54	7.5	1500	0.96	5.0
12/8/88	54		1410	1.0	4.1
12/28/88	43		1700	1.2	4.8
1/11/89	46		1650	1.2	4.5
1/26/89	50		1900	1.4	7.4
1/31/89	50		1820	1.4	9.8
2/7/89	45		1650	1.2	7.7
2/14/89	46	7.9	1720	1.3	8.4
2/21/89	60		2000	1.5	13
3/1/89	56	7.7	2210	1.9	17
3/7/89	60	7.8	1460	1.1	6.9
3/15/89	59		1900	1.4	11
3/21/89	62		1900	1.4	12
3/29/89	64	7.4	1260	0.86	7.5
4/5/89	64	7.2	1800	1.2	9.8
4/12/89	72	7.3	1520	1.1	9.5
4/20/89	71		1620	1.5	5.4
4/26/89	63	8.0	1620	1.3	5.8
5/1/89	66	7.2	1000	0.77	4.5
5/10/89	66	7.4	1590	1.2	9.7
5/17/89	73	7.5	1580	1.3	9.1
5/24/89	66	7.3	1370	1.0	7.1

Table-A4 San Joaquin River at Crows Landing Road (STC504) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/30/89	70	7.6	1410	1.2	8.5
6/7/89	74	7.0	1610	1.3	10
6/14/89	71		1600	1.4	9.5
6/21/89	72		1630	1.5	9.2
6/27/89		7.8	1200	1.6	7.0
7/5/89	83	8.1	1490	1.2	7.9
7/12/89	76	7.5	1900	1.6	10
7/19/89	75	7.7	1380	1.2	6.0
7/25/89	79	7.9	1420	1.1	6.1
8/1/89	79	8.4	1350	1.1	6.3
8/9/89	77	8.9	1400	1.1	5.9
8/16/89	77	7.9	1440	1.2	6.6
8/24/89	77	8.3	1340	1.2	6.2
9/1/89	75	8.3	1520	1.2	5.8
9/6/89	71	8.1	1520	1.2	7.2
9/13/89	72	8.0	1420	1.0	5.3
9/21/89	68	7.7	1290	0.88	3.8
9/29/89	66	7.8	1450	0.92	5.4
10/6/89	68	7.8	1550	0.99	5.9
10/13/89	66	7.6	1200	0.67	4.0
10/20/89	67	7.7	1210	0.76	2.1
10/30/89	58	7.4	1220	0.87	2.8
11/6/89	58	7.6	1320	0.89	3.9
11/13/89	60	6.6	1260	0.80	2.9
11/20/89	54	7.6	1300	0.86	3.9
11/30/89	49	7.0	1280	0.89	3.5
12/8/89	49	8.0	1340	0.85	3.9
12/15/89	44	8.2	1450	1.0	5.5
12/21/89	44	7.4	1590	1.1	5.8
12/29/89	41	7.9	1590	1.1	7.9
1/5/90	42	8.0	1780	1.2	8.4
1/11/90	45	7.8	1870	1.3	9.3
1/19/90	48	8.9	1710	1.2	7.2
1/26/90	50	8.0	1990	1.5	11
2/2/90	50	7.6	1820	1.4	13
2/9/90	51	8.1	1900	1.6	12
2/19/90	50	7.9	1780	1.5	12
2/26/90			1800	1.6	11
3/5/90		7.7	1900	1.7	12
3/9/90	60	7.9	1910	1.4	12
3/16/90	60	7.9	1970	1.3	11
3/23/90	66	7.3	1960	1.4	9.9
3/30/90	68		2020	1.5	10
4/6/90	68	7.7	1960	1.4	8.8
4/12/90	64	8.0	1920	1.3	7.8
4/20/90	64	7.8	1970	1.7	8.6
4/27/90			2030	1.3	6.5
5/4/90	74	8.4	1760	1.3	9.4
5/11/90	68	7.9	1780	1.4	10
5/18/90	70	8.1	1940	1.6	12
5/25/90	67	7.9	1890	1.5	11
5/31/90	70	7.9	1520	1.0	7.2
6/8/90	71	7.5	1830	1.1	8.4
6/15/90	72	8.2	1830	1.5	7.6
6/22/90	78	8.0	1920	1.7	9.4
6/28/90	72	7.9	1400	1.2	3.7
7/6/90	72	8.6	1560	1.4	6.8
7/13/90	80	9.1	1780	1.5	6.1

Table-A4 San Joaquin River at Crows Landing Road (STC504) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/20/90	79	9.1	1480	1.2	6.2
7/27/90	76	9.0	1290	1.1	4.5
8/3/90	77	9.3	1870	1.3	7.4
8/9/90	83	8.0	1510	1.3	6.3
8/16/90	74	9.2	1290	0.94	4.8
8/24/90	74	7.7	1380	0.88	5.5
8/31/90	70	8.3	1590	1.2	6.8
9/7/90	68	7.6	1250	0.75	3.5
9/14/90	74	8.6	1320	0.76	2.8
9/21/90	68	7.9	1200	0.74	1.6
9/28/90	68		1180	0.77	5.3
10/5/90	70	7.9	1290	0.73	5.0
10/12/90	60	7.4	1280	0.75	3.8
10/19/90	62	7.8	1290	0.54	1.3
10/26/90	64	7.9	1290	0.52	0.9
11/2/90	52	7.3	1160	0.45	1.3
11/9/90	51	7.8	1080	0.47	1.0
11/16/90	55	8.0	1270	0.59	1.7
11/27/90	50	8.2	1470	0.67	0.7
12/7/90	45	7.3	1480	0.75	1.7
12/14/90	46	8.0	1620	1.1	7.0
12/21/90	40	8.0	1670	1.1	7.5
12/28/90	39	7.5	1570	1.0	5.6
1/4/91	44	7.7	1720	1.1	5.5
1/10/91	52	8.1	1700	1.1	5.1
1/15/91	52	7.9	2050	1.4	7.8
1/18/91	49	7.9	2260	1.8	9.5
1/25/91	45	8.4	2350	1.4	9.2
2/1/91	46	7.2	2290	1.7	9.9
2/8/91	53	8.1	2000	1.5	7.9
2/15/91	58	8.1	2200	1.7	8.8
2/22/91	57	7.4	2240	1.5	7.2
3/1/91	56		2150	1.6	10
3/8/91	54	7.4	1860	1.2	6.1
3/15/91	52	8.9	2010	1.5	9.4
3/21/91	52	7.1	560	0.30	2.0
3/28/91	58	7.7	920	0.59	3.6
4/5/91	67	8.0	1990	1.6	7.3
4/11/91	58	8.3	2420	2.1	8.0
4/19/91	62		2490	1.7	9.9
4/25/91	63	7.9	1950	1.4	7.3
5/2/91	62	8.0	2220	1.4	6.6
5/9/91	68	8.3	1920	1.4	6.9
5/16/91	68	8.1	1790	1.2	6.1
5/23/91	70	7.7	1730	1.0	6.4
5/30/91	66	8.8	1780	1.1	6.2
6/7/91	72	8.5	2290	1.8	11
6/14/91	70	8.0	2260	1.9	11
6/21/91		8.6	1950	1.0	7.1
6/28/91	68		1720	0.93	4.0
7/5/91	78	7.8	1800	1.1	4.9
7/12/91	74	8.0	1440	0.98	4.0
7/19/91	72	8.0	1850	1.5	7.3
7/26/91	74		1630	1.0	5.7
7/31/91	75		1590	1.0	6.2
8/9/91	80	9.7	1360	0.72	3.8
8/16/91	76		1460	1.0	4.8
8/23/91	67		1660	1.3	5.4

Table-A4 San Joaquin River at Crows Landing Road (STC504) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/30/91	70	8.7	1590	1.0	4.4
9/7/91	72	8.1	1610	0.92	4.0
9/14/91	76	8.3	1400	0.81	4.8
9/21/91	70	7.8	1400	0.61	1.9
9/30/91	69	8.2	1560	0.83	3.2
10/4/91	82	8.6	1690	0.81	2.0
10/7/91	69	8.0	1310	0.45	0.8
10/10/91	78	8.2	1580	0.49	1.0
10/18/91	63	7.2	1310	0.40	0.6
10/25/91	58	7.7	1390	0.55	0.5
11/1/91	59	8.1	670	0.23	0.7
11/8/91	67	7.9	810	0.43	2.7
11/15/91	59	8.7	1010	0.58	2.7
11/25/91	50	7.9	1030	0.58	2.8
12/6/91	46	8.1	1070	0.48	1.2
12/13/91	48	8.4	1120	0.60	1.0
12/20/91		8.1	1240	0.68	1.6
12/26/91	47	8.1	1250	0.67	2.2
1/2/92	47	8.2	1280	0.83	2.9
1/10/92	48	8.0	1320	0.99	4.6
1/17/92	46	8.1	1450	1.1	3.9
1/24/92		8.5	1500	0.91	3.7
1/31/92	47	8.0	1510	1.0	4.8
2/7/92	53	7.9	1535	1.0	5.4
2/14/92	54	7.7	1050	0.69	3.2
2/21/92	57	7.7	1000	0.74	2.8
2/28/92	60	7.5	1570	1.2	5.5
3/6/92	58	8.0	1710	1.3	6.4
3/13/92	66	7.9	1760	1.2	6.3
3/20/92	60	8.1	1860	1.3	6.4
3/23/92	62	8.0	1570	1.2	5.7
3/26/92	64	7.9	1540	1.2	5.4
3/30/92	64	8.0	1840	1.6	7.1
4/2/92	66	7.9	1760	1.4	5.8
4/6/92		8.2	1940	1.7	7.6
4/9/92	66	8.0	2020	1.6	8.5
4/13/92	66	8.1	2040	1.6	10
4/16/92	68	8.1	1930	1.5	8.4
4/20/92	68	8.2	1970	1.7	11
4/23/92	64	8.2	1930	1.3	7.4
4/27/92	72	8.2	2180	1.3	7.5
4/30/92	72	8.4	2060	1.4	9.8
5/7/92	72	7.9	2130	1.3	8.0
5/15/92	72	8.0	1940	0.85	
5/21/92	73	8.3	1480	0.83	3.3
5/29/92	74	8.3	1580	0.82	4.8
6/5/92	76	8.3	1870	1.3	6.3
6/12/92	68	8.5	2070	1.8	9.9
6/19/92	79	8.5	1680	1.2	6.1
6/26/92	74	8.3	1630	1.2	6.2
7/3/92	80	8.5	1740	1.2	5.1
7/10/92	79	8.3	1570	0.73	2.6
7/17/92	80	8.4	1600	1.2	7.1
7/24/92	75	8.7	1700	1.2	5.7
7/30/92	73	8.3	1510	0.85	2.9
8/7/92	82	8.4	1600		3.3
8/14/92	80	8.2	1350	0.57	1.7
8/23/92	72	7.8	1450	1.2	6.5

Table-A4 San Joaquin River at Crows Landing Road (STC504) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/28/92	71	7.7	1400	0.67	2.4
9/4/92	74	7.7	1410	0.53	0.8
9/11/92	79	8.0	1810	1.0	2.7
9/18/92	72	7.8	1480	0.61	0.9
9/25/92	63	7.7	1400	0.53	0.8
10/2/92	68	7.6	1480	0.62	0.8
10/9/92	62	7.7	1600	0.67	0.8
10/16/92	69	8.3	1450	0.49	0.4
10/23/92	67	8.4	980	0.37	0.7
10/29/92	64	8.6	580	0.20	0.2
11/5/92	66	7.9	780	0.45	1.5
11/13/92	55	8.3	930	0.60	2.1
11/30/92	49		1020	0.45	0.6
12/4/92	50	8.6	980	0.39	0.4
12/14/92	46	8.1	1350	1.3	6.0
12/22/92	49	8.4	1460	2.1	4.2
12/30/92	45		1480	0.99	5.0
1/8/93	56	7.9	1030	0.70	3.7
1/15/93			330	0.17	0.7
1/22/93	54	8.5	540	0.44	1.9
1/28/93	48		980	0.77	3.4
2/4/93	52	9.3	1610	1.3	6.1
2/10/93	55		900	0.67	3.0
2/19/93	57	8.0	920	0.65	3.6
2/25/93	56	8.0	940	0.74	3.8
3/5/93	61	7.9	1130	0.93	4.3
3/12/93	65	7.5	1940	1.3	8.0
3/18/93	66	7.9	1780	1.0	5.4
3/25/93	60	7.6	1680	1.2	7.5
4/2/93	63	7.7	1050	0.75	3.8
4/9/93	65	8.2	1040	0.73	3.9
4/16/93	62	8.1	737	0.54	3.6
4/23/93	62	8.1	790	0.43	1.4
4/29/93	66	8.1	845	0.58	4.4
5/7/93	70	8.6	698	0.47	3.9
5/14/93	68	8.2	680	0.51	3.8
5/21/93	72	8.0	1060	0.60	3.0
5/26/93	69	8.0	1430	1.1	6.5
6/4/93	69	8.3	1090	0.80	4.0
6/11/93	72	8.2	848	0.73	4.1
6/18/93	78	8.3	810	0.64	4.6
6/24/93	70	6.9	1010	0.95	5.3
7/2/93	81	7.6	1280	1.1	8.5
7/9/93	76	7.1	1140	0.94	6.3
7/16/93	77	8.3	1200	1.0	7.5
7/23/93	81	8.0	1190	0.97	6.7
7/29/93	74	6.9	810	0.75	4.4
8/6/93	78	8.0	835	0.76	5.3
8/13/93	76	8.5	749	0.63	3.8
8/20/93	74	7.9	688	0.57	3.4
8/26/93	78	7.5	726	0.63	4.0
9/3/93	79	7.9	627	0.48	2.6
9/10/93	80	8.0	602	0.41	2.5
9/17/93	69	8.3	563	0.28	1.3
9/23/93	72	7.9	640	0.44	2.4
10/1/93	75	8.0	719	0.29	0.6
10/8/93	68	8.4	382	0.17	0.5
10/15/93	63	8.3	209	0.11	<0.4

Table-A4 San Joaquin River at Crows Landing Road (STC504) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/21/93		8.1	517	0.44	1.0
10/28/93	66	7.7	816	0.65	2.4
11/5/93	62	7.7	851	0.55	2.3
11/12/93	58	7.9	1030	0.67	2.3
11/22/93	55	7.8	1180	0.82	3.5
11/28/93	56	7.9	1230	0.82	3.6
12/3/93	53	7.9	1220	0.79	3.0
12/10/93	56	7.9	1310	0.99	4.2
12/17/93		8.1	1140	0.92	4.1
12/28/93	44	8.4	1400	1.0	4.0
1/7/94	48	7.1	1250	0.82	1.6
1/13/94	51	7.8	1580	1.3	4.1
1/21/94	54	8.7	1580	1.3	5.2
1/27/94	50	8.0	1350	1.1	4.9
2/3/94	50	7.7	1780	1.3	7.2
2/11/94	52	7.7	823	0.62	3.6
2/17/94	53	7.5	1490	1.2	8.1
2/23/94	52	7.7	998	0.81	3.2
3/4/94	63	7.7	1840	1.4	9.6
3/9/94	64	8.0	1700	1.3	9.0
3/16/94	64	7.8	1700	1.3	7.4
3/23/94	60	8.0	1840	1.5	11
3/31/94	68	8.0	1630	1.3	9.2
4/6/94		8.2	1730	1.3	9.6
4/15/94	72	7.8	1740	1.3	6.7
4/21/94	72	7.9	1850	1.2	8.2
4/27/94	60	8.3	836	0.60	3.9
5/4/94	72	7.8	1440	0.86	5.6
5/10/94	67	7.5	732	0.75	5.3
5/16/94	67	7.1	1510	1.1	8.8
5/25/94	71	7.2	1420	1.3	8.3
6/1/94	80	8.1	1360	1.0	7.5
6/8/94	66	8.1	1780	1.5	11
6/15/94	72	8.6	1810	1.6	9.7
6/21/94	76	8.1	1980	1.6	13
6/29/94	80	8.2	1870	1.9	13
7/6/94	80	7.9	1660	1.1	11
7/13/94	80	7.9	2040	1.6	13
7/21/94	77	8.0	904	0.76	6.6
7/27/94	79	8.3	762	0.59	4.1
8/3/94	76	8.1	1340	1.1	6.8
8/10/94	80	8.0	1710	1.4	10
8/16/94	79	7.9	1630	1.2	7.5
8/24/94	76	7.9	1670	1.4	8.7
8/31/94	72	7.4	1430	1.0	5.4
9/7/94	75	8.2	1700	1.2	7.8
9/14/94	74	8.6	1780	1.2	8.5
9/22/94	76	8.2	1660	0.80	3.9
9/29/94	68	7.7	1410	0.75	3.9
10/7/94	68	8.1	1050	0.39	1.1
10/12/94	64	8.3	926	0.31	0.6
10/20/94	65	8.2	696	0.39	2.3
10/27/94	64	7.7	1060	0.66	4.7
11/8/94	53	8.0	1020	0.57	2.0
11/10/94	53	8.1	1260	0.68	2.6
11/18/94	52	8.1	1260	0.71	2.5

Table-A4 San Joaquin River at Crows Landing Road (STC504) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
11/22/94	52		1440	0.89	4.4
12/1/94	47		1350	0.78	3.0
12/9/94	46		1370	0.84	3.2
12/15/94	48		1440	0.91	4.0
12/21/94	49		1440	0.91	3.2
12/29/94	49	7.5	1470	0.95	4.4
1/5/95	50	7.7	1320	0.75	2.8
1/12/95	55	7.4	635	0.43	1.9
1/19/95	50	7.3		0.51	1.7
1/26/95	51	8.5		0.28	1.4
2/3/95	58	8.1	1000	0.76	3.5
2/9/95	58	8.2	1650	1.3	7.0
2/17/95	57	8.0	1850	1.5	9.6
2/23/95	59	7.9	2060	1.7	12
3/3/95	64	8.1	2030	1.3	12
3/9/95	58		1800	1.3	10
3/15/95	61			0.14	1.1
3/23/95	53	6.9	502	0.28	2.2
3/28/95	61	7.5	373	0.19	1.5
4/6/95	65	8.6	299	0.19	1.0
4/12/95	67	7.6	282	0.17	0.8
4/13/95	62	7.8	261		0.8
4/21/95	59	8.2	264	0.14	1.5
4/26/95	68	7.8	223	0.12	0.8
5/3/95	69	8.2	178	0.07	0.8
5/5/95				0.07	0.6
5/12/95	66	7.8	162	0.08	0.6
5/26/95	66	7.6	169	0.09	0.5
6/2/95	62	8.0	191	0.10	0.6
6/9/95	68	8.4	216	0.15	1.0
6/16/95	65	7.4	278	0.16	1.2
6/23/95	72	8.5	271	0.18	1.2
6/28/95	74	8.1	551	0.38	2.5
7/6/95	78	8.0	209	0.05	1.1
7/13/95	70	7.9	143	<.05	0.8
7/20/95	79	8.0	312	0.21	1.7
7/27/95	76	7.3	564	0.40	2.7
8/3/95	82	8.2	438		1.8
8/10/95	78	7.9	880	0.57	4.6
8/17/95	72	8.2	773	0.53	4.0
8/24/95	82	8.5	735	0.49	3.5
8/31/95	71	8.1	884	0.58	4.4
9/7/95	78	8.3	798	0.59	4.7
9/15/95	73	8.0	537	0.34	3.5
9/22/95	76	8.1	537	0.19	3.5
9/28/95	70	7.2	639	0.28	1.8
Count	392	366	438	441	443
Min	39	5.9	143	0.05	<0.4
Max	83	9.7	2490	2.1	17
Mean	65	7.9	1390	0.97	5.3
Geo Mean	64	7.9	1260	0.84	4.2
Median	66	8.0	1450	1.0	5.0

Table-A5 San Joaquin River at Las Palmas Launching Facility (Patterson) (STC507)

Location: Latitude 37°29'52", Longitude 121°04'54". In SW 1/4, NW 1/4, SW 1/4, Sec. 15, T.5S., R.8E. West Bank, 0.3 mi. N of Patterson Bridge at NE corner of Las Palmas Launching Facility parking lot, 3.2 mile NE of Patterson. River Mile 98.6.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85			1200	0.70	4
6/3/85			1050	0.85	3
7/2/85			1100	0.86	4
8/14/85			1050	0.53	3
8/29/85			890	0.47	1
9/27/85			640	0.26	<1
10/30/85			920	0.59	1
12/18/85			1540	1.2	2
1/3/86			1520	1.2	3
1/9/86			1700	1.1	5
1/14/86			1800	1.7	3
2/1/86		8.3	1500	1.3	4
2/7/86		8.2	1200	1.0	4
2/16/86		8.1	750	0.48	2
3/1/86		7.7	430	0.32	1
4/19/86		7.6	240	0.29	1
4/26/86		7.3	280	0.15	<1
5/12/86		7.7	370	0.18	<1
6/3/86		7.4	470	0.34	1.7
6/16/86			600	0.11	2.4
6/26/86		8.2	870	0.60	2.8
8/4/86			870	0.53	3.2
9/2/86			910	0.59	2.7
9/27/86			570	0.23	1.1
11/4/86				0.70	3.4
12/4/86		7.7		0.79	5.2
1/2/87			1400	0.95	4.7
1/30/87			1200	1.1	4.7
2/27/87			1960	1.8	10
4/1/87			1860	1.6	7.9
5/1/87			1360	0.70	3.8
6/1/87			1290	0.85	5.4
7/1/87			1300	0.95	4.5
7/31/87			1400	1.0	5.8
9/1/87			1230	0.77	4.8
10/1/87	75	7.6	1230	0.64	3.1
11/3/87	58	8.0	1400	3.0	3.0
12/1/87	51	7.4	1430	0.81	3.4
12/14/87	54	7.8	750	0.48	2.0
1/5/88	49		1700	1.1	6.0
1/28/88	52		1900	1.4	6.3
2/19/88	55	7.8	1900	1.5	9.1
3/9/88	60		1600	1.3	8.5
3/30/88	58	7.9	2150	1.8	8.6
5/5/88	62	7.8	1600	1.0	6.9
6/1/88	69	7.9	1300	1.0	5.4
6/29/88	68	7.8	1600	1.3	6.9
8/1/88	77	8.1	1800	1.3	7.8
9/1/88	78		1650	0.99	5.8
10/4/88	64	8.4	1630	0.76	6.4
11/1/88	66	7.6	1440	0.79	3.0
12/8/88	54		1470	0.94	3.4
1/11/89	46		1650	1.2	3.7
2/7/89	42		1800	1.3	8.8

Table-A5 San Joaquin River at Las Palmas Launching Facility (STC507) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/1/89	56	7.6	2220	1.8	14
3/29/89	64	7.4	1470	0.87	7.3
5/1/89	65	7.2	1220	0.88	5.2
5/30/89	70	7.5	1640	1.1	7.3
7/5/89	83	7.8	1490	1.1	6.2
8/1/89	79	8.3	1420	1.0	5.4
9/1/89	77	8.2	1500	1.0	4.7
9/29/89	68	7.2	1460	0.84	6.0
10/30/89	59	7.5	1060	0.67	1.7
11/30/89	50	7.2	1270	0.84	3.3
12/29/89	42	7.8	1570	1.0	6.1
1/19/90	50	9.4	1800	1.2	6.4
2/2/90	51	7.5	1850	1.2	10
3/30/90	68		2160	1.5	9.2
4/12/90	72	7.9	1800	1.2	6.9
4/27/90			2010	1.2	6.0
5/31/90	70	7.7	1340	0.81	4.5
6/28/90	72	7.9	1400	1.1	4.0
7/27/90	76	8.9	1480	1.1	4.3
8/31/90	72	8.3	1700	0.93	4.6
9/28/90	68		1350	0.77	4.5
10/26/90	67	7.7	1180	0.44	0.8
11/27/90	52	7.8	1520	0.63	0.6
12/28/90	40	7.4	1660	1.0	5.1
1/25/91	45	8.2	2380	1.3	5.4
2/15/91	61	7.8	2040	1.4	6.4
2/22/91	57	7.2	2340	1.4	6.5
3/1/91	56		2240	1.4	7.7
3/8/91	54	7.2	1820	1.2	5.7
3/15/91	53	8.8	1890	1.3	7.3
3/21/91	54	6.9	560	0.28	1.8
3/28/91	58	7.6	830	0.56	4.1
4/5/91	69	7.9	1920	1.5	6.5
4/11/91	58	8.2	2350	1.9	7.6
4/19/91	62		2450	1.5	8.3
4/25/91	63	7.8	1760	1.2	5.5
5/2/91	65	7.9	1910	1.1	4.6
5/9/91	68	8.3	1700	1.1	6.5
5/16/91	70	7.9	1980	1.3	7.7
5/23/91	72	7.6	1770	0.94	5.3
5/30/91	68	8.6	1740	1.0	6.7
6/7/91	74	8.5	1850	1.0	5.2
6/14/91	70	8.1	2220	1.6	8.3
6/21/91		8.6	1800	0.92	5.8
6/28/91	68		1660	0.79	3.0
7/5/91	78	7.7	1780	0.93	3.9
7/12/91	76	7.9	1440	0.85	3.6
7/19/91	72	7.9	1470	0.94	4.3
7/26/91	74		1630	0.89	4.3
7/31/91	76		1690	0.92	6.2
8/9/91	80	9.6	1550	0.76	3.7
8/16/91	76		1470	0.92	4.1
8/23/91	68		1730	1.0	4.6
8/30/91	71	8.6	1620	0.90	3.5
9/7/91	74	8.1	1580	0.82	3.4
9/14/91	78	8.2	1440	0.70	3.3
9/21/91	70	7.8	1420	0.54	1.6
9/30/91	68	8.4	1550	0.71	2.9

Table-A5 San Joaquin River at Las Palmas Launching Facility (STC507) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/4/91	82	8.5	1540	0.64	1.3
10/7/91	70	8.0	1520	0.47	0.9
10/10/91	78	8.2	1680	0.48	1.5
10/18/91	64	7.7	1470	0.43	0.6
10/25/91	58	7.5	1460	0.54	0.5
11/1/91	59	7.6	880	0.24	0.6
11/8/91	67	7.8	1010	0.52	2.6
11/15/91	59	8.4	1120	0.58	2.3
11/25/91	50	7.8	1130	0.62	2.8
12/6/91	47	8.1	1130	0.43	0.9
12/13/91	47	7.4	1210	0.59	0.8
12/20/91		8.1	1350	0.76	1.6
12/26/91	46	8.2	1320	0.68	2.0
1/2/92	47	5.1	1360	0.86	2.8
1/10/92	49	7.9	1320	1.0	3.8
1/17/92	46	8.0	1540	1.1	3.9
1/24/92		8.4	1550	0.86	3.6
1/31/92	48	8.0	1570		4.4
2/7/92	56	7.7	1550	1.0	4.6
2/14/92	56	7.6	895	0.54	2.6
2/21/92	57	7.7	960	0.57	3.0
2/28/92	61	7.4	1600	1.2	5.5
3/6/92	61	8.1	1660	1.2	4.9
3/13/92	67	7.8	1720	1.1	5.3
3/20/92	61	8.1	1860	1.3	5.5
3/26/92	68	7.8	1520	1.2	4.7
3/30/92	63	7.9	1840	1.5	7.3
4/2/92	69	7.9	1760	1.4	5.4
4/6/92	69	7.9	1760	1.4	5.4
4/9/92	68	8.2	1890	1.4	6.7
4/16/92	69	8.1	1810	1.3	7.3
4/23/92	68	8.2	1880	1.2	6.1
4/30/92	67	8.4	2040	1.3	8.2
5/7/92	73	7.9	2060	1.2	6.9
5/15/92	72	8.2	1750	0.72	2.6
5/21/92	71	8.4	1720	0.74	3.3
5/29/92	76	8.4	1740	0.91	4.9
6/5/92	76	8.3	1920	1.1	4.4
6/12/92	70	8.4	1760	1.1	5.1
6/19/92	80	8.7	1760	1.1	5.3
6/26/92	75	8.3	1650	1.2	5.6
7/3/92	80	8.7	1760	1.1	3.9
7/10/92	81	8.4	1420	0.65	1.9
7/17/92	82	8.7	1710	1.0	5.4
7/24/92	77	8.8	1730	1.0	4.5
7/30/92	71	8.4	1720	0.82	2.7
8/7/92	84	8.6	1640	0.99	3.0
8/14/92	80	8.3	1370	0.58	1.6
8/23/92	72	7.8	1470	0.70	2.0
8/28/92	72	7.7	1450	0.66	2.5
9/4/92	76	7.7	1580	0.63	1.5
9/11/92	79	8.0	1550	0.89	1.2
9/18/92	74	8.1	1570	0.59	0.9
9/25/92	64	7.7	1490	0.58	0.6
10/2/92	70	7.7	1320	0.46	0.7
10/9/92	63	7.5	1720	0.66	0.8
10/16/92	69	8.1	1540	0.48	0.5
10/23/92	70	7.9	1380	0.51	0.6

Table-A5 San Joaquin River at Las Palmas Launching Facility (STC507) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/29/92	64	8.1	650	0.24	0.2
11/5/92	65	7.8	845	0.42	1.1
11/13/92	56	8.0	1030	0.65	1.8
11/30/92	50		1160	0.52	0.7
12/4/92	51	8.6	1090	0.41	0.5
12/14/92	47	8.2	1310	1.1	4.5
12/22/92	49	8.1	1490	1.1	2.0
12/30/92	45		1430	0.87	4.3
1/8/93	56	7.9	1030	0.68	3.5
1/15/93			410	0.21	1.0
1/22/93	54	8.4	570	0.43	1.8
1/28/93	47		930	0.73	2.5
2/4/93	52	9.2	1580	1.2	5.2
2/10/93	57		1240	0.87	3.9
2/19/93	56	7.9	1240	0.78	3.5
2/25/93	57	8.0	1010	0.76	3.7
3/5/93	61	7.8	1160	0.85	3.8
3/12/93	66	7.5	1960	1.3	6.6
3/18/93	66	7.9	2000	1.1	6.4
3/25/93	61	7.6	1690	1.2	6.1
4/2/93	64	7.7	1130	0.73	3.6
4/9/93	65	8.1	1090	0.77	3.8
4/16/93	62	8.0	790	0.52	3.5
4/23/93	64	7.9	880	0.44	1.4
4/29/93	67	8.0	914	0.58	4.2
5/7/93	65	8.6	864	0.51	3.4
5/14/93	68	7.9	770	0.55	3.5
5/21/93	72	7.8	1120	0.55	2.3
5/26/93	73	7.8	1350	0.90	5.6
6/4/93	70	8.2	1160	0.59	2.0
6/11/93	73	8.0	1080	0.73	4.4
6/18/93	79	8.2	1000	0.70	4.4
6/24/93	69	7.1	1110	0.81	4.6
7/2/93	82	7.4	1410	0.91	6.7
7/9/93	76	7.1	1190	0.92	6.5
7/16/93	77	8.2	1200	0.92	5.9
7/23/93	81	7.8	1420	0.97	6.6
7/29/93	76	6.9	843	0.69	3.7
8/6/93	79	7.7	927	0.71	4.9
8/13/93	78	8.1	883	0.64	3.7
8/20/93	75	7.6	743	0.59	2.8
8/26/93	79	7.7	815	0.60	3.5
9/3/93	79	7.8	706	0.24	2.7
9/10/93	76	7.6	704	0.46	2.5
9/17/93	69	8.1	662	0.32	1.2
9/23/93	72	7.5	821	0.47	2.1
10/1/93	75	7.6	782	0.30	0.6
10/8/93	69	7.9	444	0.18	0.8
10/15/93	64	8.0	249	0.11	<0.4
10/21/93		8.0	513	0.36	1.1
10/29/93	65	7.6	710	0.40	0.9
11/5/93	62	7.4	954	0.58	1.9
11/12/93	59	7.7	1090	0.66	2.2
11/22/93	55	7.8	1210	0.93	2.5
11/30/93	55	7.8	1280	0.85	3.9
12/3/93	54	7.8	1260	0.72	2.3
12/10/93	56	7.8	1390	1.1	3.5
12/17/93		8.0	1240	0.96	4.5

Table-A5 San Joaquin River at Las Palmas Launching Facility (STC507) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
12/28/93	43	6.8	1380	0.97	3.6
1/7/94	49	7.5	1290	0.90	2.7
1/13/94	51	7.7	1590	1.3	3.5
1/21/94	54	8.6	1600	1.1	5.1
1/27/94	51	8.0	1320	1.1	4.4
2/3/94	50	7.6	1850	1.3	7.3
2/11/94	52	7.6	707	0.48	3.6
2/17/94	53	7.3	1450	1.1	6.9
2/23/94	52	7.7	968	0.75	4.7
3/4/94	63	7.8	1820	1.4	8.9
3/9/94	66	8.0	1720	1.3	9.2
3/16/94	64	7.8	1360	0.96	5.5
3/23/94	61	8.1	1600	1.4	9.9
3/31/94	68	8.0	1630	1.2	8.3
4/6/94		8.4	1680	1.2	9.1
4/15/94	74	8.0	1640	1.1	6.5
4/21/94	71	7.8	1620	1.0	6.7
4/27/94	61	7.9	870	0.57	3.6
5/10/94	67	7.0	870	0.58	5.1
5/16/94	67	8.0	1470	0.90	6.8
5/25/94	71	6.4	1390	1.0	6.9
6/1/94	81	8.1	1500	1.2	7.0
6/8/94	67	7.9	1690	1.2	6.1
6/15/94	72	8.5	1720	1.4	7.1
6/21/94	78	8.2	1870	1.2	9.2
6/29/94	81	8.2	1760	1.4	11
7/6/94	80	8.1	1530	1.2	8.8
7/13/94	80	8.4	2030	1.8	14
7/21/94	79	7.9	1140	0.73	5.7
7/27/94	79	7.9	840	0.43	4.3
8/3/94	78	8.0	1460	1.1	7.2
8/10/94	81	8.1	1650	1.2	7.5
8/16/94	81	8.0	1990	1.2	6.8
8/24/94	76	7.9	1560	1.2	7.9
8/31/94	73	7.9	1310	0.86	5.1
9/7/94	76	8.3	1450	0.82	6.0
9/14/94	76	8.5	1620	0.80	4.8
9/22/94	77	8.2	1540	0.70	3.7
9/29/94	70	7.7	1250	0.48	1.4
10/7/94	68	7.9	993	0.34	0.9
10/12/94	64	8.4	885	0.31	0.5
10/20/94	66	7.9	693	0.34	1.1
10/27/94	66	7.6	1080	0.58	3.4
11/8/94	54	7.8	1040	0.56	2.0
11/10/94	54	8.1	1180	0.59	2.2
11/18/94	52	7.5	1330	0.69	2.9
11/22/94	53		1200	0.60	1.7
12/9/94	47		1370	0.75	3.7
12/15/94	49		1310	0.73	2.6
12/21/94	49		1520	0.99	3.3
12/29/94	51	8.0	1360	0.83	3.2
1/5/95	51	7.6	1230	0.73	3.0
1/12/95	54	7.4		0.44	1.6
1/19/95	50	7.3		0.45	1.3
1/26/95	54	7.8	606	0.34	1.8
2/9/95	54	8.1	1610	1.1	6.7
2/23/95	59	7.9	2120	1.8	11
3/3/95	64	7.9	2020	1.5	11

Table-A5 San Joaquin River at Las Palmas Launching Facility (STC507) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/9/95	58		1760	1.2	8.7
3/23/95	53	6.8	519	0.29	2.0
3/29/95	71	8.8	356	0.19	1.2
4/6/95	67	8.5	330	0.21	0.9
4/12/95	63	7.8	570	0.17	1.3
4/21/95	62	8.0	278	0.10	1.1
4/26/95	68	7.7	211	0.13	0.9
5/3/95	70	7.6	193	0.12	0.7
5/12/95	65	7.7	172	0.08	0.6
5/26/95	64	7.6	154	0.08	<0.4
6/2/95	62	8.0	166	0.08	<0.4
6/9/95	66	7.6	221	0.12	0.9
6/16/95	61	7.1	302	0.19	1.1
6/23/95	72	8.8	306	0.20	1.1
6/28/95	76	7.7	687	0.42	2.5
7/6/95	78	7.7	212	0.11	0.9
7/13/95	68	7.9	146	0.08	0.7
7/20/95	79	7.7	391		3.0
7/27/95	75	7.6	570	0.44	3.0
8/3/95	80	8.1	644	0.35	2.1
8/10/95	80	7.8	1190	0.65	4.3
8/17/95	76	7.9	853	0.61	4.0
8/24/95	82	8.3	830	0.48	3.5
8/31/95	72	7.7	995	0.69	3.9
9/7/95	79	8.2	834	0.54	4.1
9/15/95	45	7.8	696	0.42	3.0
9/22/95	76	8.0	611	0.31	1.8
9/28/95	70	7.3	736	0.97	2.3
Count	271	262	310	312	314
Min	40	5.1	146	0.08	<0.4
Max	84	9.6	2450	3.0	14
Mean	65	7.9	1310	0.84	4.1
Geo Mean	64	7.9	1180	0.72	3.2
Median	67	7.9	1400	0.83	3.8

Table-A6 San Joaquin River at Grayson Road, Laird Slough (STC511)

Location: Latitude 37°33'43", Longitude 121°09'03". In NW 1/4, SE 1/4, NW 1/4, Sec. 25, T.4S., R.7E. Laird Park, 500 feet south of Grayson Road Bridge, 1.5 miles east of Grayson. River Mile 89.1

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/3/85			1000	0.78	3
7/2/85			1000	0.76	3
8/14/85			1050	0.45	2
8/29/85			890	0.48	1
9/27/85			690	0.38	1
10/30/85			970	0.56	1
12/18/85			1560	0.58	<1
1/3/86			1560	1.1	4
1/9/86			1600	1.1	4
1/14/86			1700	1.2	3
2/1/86		8.2	1400	1.1	4
2/7/86		8.2	1300	1.2	3
2/16/86		8.0	600	0.42	2
3/1/86		8.0	430	0.30	1
4/2/86					<1
4/26/86		7.3	280	0.17	<1
6/3/86			440	0.32	1.7
6/26/86			960	0.81	3.2
8/4/86			870	0.57	3.5
9/2/86			850	0.55	2.4
9/27/86			570	0.21	0.9
11/4/86				0.59	3.4
12/4/86		7.7		0.75	4.6
1/2/87			1400	0.95	4.5
1/30/87			1400	1.2	5.9
2/27/87			1890	1.6	9.3
4/1/87			1760	1.4	8.4
5/1/87			1220	0.62	3.7
6/1/87			1260	0.88	5.4
7/1/87			1200	0.97	4.1
7/31/87			1300	0.76	5.0
9/1/87			1240	0.73	4.2
10/1/87	73	7.9	1300	0.66	2.9
11/3/87	58	8.0	1350	0.93	2.5
12/1/87	51	7.4	1490	0.76	2.4
1/5/88	49		1700	1.0	4.8
1/28/88	53		1900	1.4	6.0
3/9/88	60		1700	1.3	8.5
3/30/88	56	7.8	1950	1.5	7.9
5/5/88	62	7.8	1650	1.0	6.7
6/1/88	68	7.9	1300	0.90	5.3
6/29/88	70	7.8	1450	1.1	6.7
8/1/88	76	8.0	1650	1.2	7.1
9/1/88	76		1500	0.90	5.5
10/4/88	66	8.0	1830	0.87	6.2
11/1/88	64	7.4	1510	0.84	3.6
12/8/88	55		1480	0.87	3.5
1/11/89	46		1650	1.2	4.0
2/7/89	41		1850	1.2	8.1
3/1/89	56	7.6	2100	1.6	12
3/29/89	63	7.3	1520	0.86	8.4
5/1/89	66	6.8	1220	0.90	5.8
5/30/89	69	7.4	1390	1.0	6.6
7/5/89	82	7.8	1400	1.0	6.1

Table-A6 San Joaquin River at Grayson Road, Laird Slough (STC511) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/1/89	80	8.3	1300	0.89	5.2
9/1/89	76	8.2	1450	0.94	4.5
9/29/89	68	7.5	1160	0.64	3.7
10/30/89	60	7.6	1260	0.76	3.0
11/30/89	48	7.4	1360	0.88	3.4
12/29/89	42	7.7	1670	1.0	6.6
1/19/90	50	8.5	1840	1.2	6.0
2/2/90	51	7.1	1850	1.2	10
3/30/90	66		1850	1.2	7.3
4/12/90	72	8.8	1590	0.88	4.1
4/27/90			1900	1.1	5.3
5/31/90	70	7.9	1250	0.86	5.2
6/28/90	71	7.9	1400	0.92	2.9
7/27/90	73	8.9	1330	0.89	3.3
8/31/90	71	8.2	1450	0.78	4.8
9/28/90	67		1290	0.66	3.4
10/26/90	66	7.6	1350	0.46	1.2
11/27/90	52	7.6	1550	0.60	1.0
12/28/90	40	7.4	1710	1.0	5.7
1/25/91	48	7.8	2310	1.2	4.7
2/15/91	60	7.7	1970	1.2	5.0
2/22/91	59	6.8	2310	1.4	7.0
3/1/91	56		2000	1.2	6.1
3/8/91	55	7.1	1760	1.1	5.2
3/15/91	52	9.0	1850	1.2	6.6
3/21/91	54	7.3	600	0.31	2.0
3/28/91	59	7.4	780	0.49	2.8
4/5/91	67	7.9	1880	1.4	6.6
4/11/91	60	8.1	2260	1.7	7.3
4/19/91	62		2250	1.3	6.8
4/25/91	63	7.8	825	0.51	2.7
5/2/91	64	7.9	1930	1.1	5.3
5/9/91	65		1730	1.1	6.2
5/16/91	68	7.9	1750	1.1	6.1
5/23/91	68	7.3	1640	0.76	3.4
5/30/91	66	8.4	1780	0.98	6.7
6/7/91	74	8.5	1840	1.0	5.8
6/14/91	72	8.1	1940	1.3	6.4
6/21/91		8.0	1950	0.94	6.4
6/28/91	68		1730	0.79	3.4
7/5/91	76	7.6	1650	0.77	3.7
7/12/91	74	7.8	1520	0.82	3.5
7/19/91	72	7.7	1430	0.91	4.2
7/26/91	72		1460	0.72	3.7
7/31/91	76		1690	0.96	6.5
8/9/91	82	9.6	1470	0.69	3.6
8/16/91	76		1590	0.90	4.0
8/23/91	68		1650	0.85	4.2
8/30/91	72	8.5	1640	0.82	3.5
9/7/91	74	7.8	1610	0.86	4.3
9/14/91	78	8.2	1530	0.72	3.6
9/21/91	70	7.7	1340	0.53	2.0
9/30/91	68	8.2	1400	0.56	2.4
10/4/91	80	8.6	1540	0.62	2.2
10/7/91	70	7.9	1600	0.52	1.6
10/10/91	76	8.2	1580	0.44	1.6
10/18/91	65	7.3	1410	0.44	0.9
10/25/91	60	7.4	1410	0.55	0.9

Table-A6 San Joaquin River at Grayson Road, Laird Slough (STC511) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
11/1/91	60	7.9	940	0.25	0.6
11/8/91	66	7.7	990	0.47	2.2
11/15/91	59	8.3	1160	0.57	2.4
11/25/91	50	8.0	1190	0.74	3.4
12/6/91	48	7.9	1190	0.45	1.1
12/13/91	49	7.6	1240	0.58	0.9
12/20/91		8.0	1420	0.74	1.7
12/26/91	47	8.1	1400	0.71	2.3
1/2/92	48	8.1	1450	0.90	3.3
1/10/92	48	7.7	1370	1.0	3.9
1/17/92	48	7.8	1540	1.0	3.5
1/24/92		8.4	1570	0.84	3.3
1/31/92	49	8.0	1590	0.96	4.2
2/7/92	54	7.8	1590	0.97	4.5
2/14/92	56	7.4	895	0.53	2.6
2/21/92	57	7.7	895	0.63	2.8
2/28/92	60	7.4	1560	1.2	5.1
3/6/92	61	7.7	1700	1.2	5.6
3/13/92	67	7.7	1710	1.1	5.4
3/20/92	61	8.0	1850	1.3	5.1
3/26/92	66	7.8	1510	1.1	4.6
3/30/92	63	7.8	1780	1.4	6.3
4/2/92	69	7.8	1770	1.3	5.8
4/9/92	68	8.1	1910	1.3	6.4
4/16/92	70	8.0	1780	1.2	6.9
4/23/92	68	8.3	1710	0.73	5.7
4/30/92	66	8.2	1920	1.0	6.0
5/7/92	72	7.5	1950	1.1	7.2
5/15/92	72	8.1	1660	0.73	3.3
5/21/92	71	8.6	1590	0.78	3.8
5/29/92	74	8.5	1570	0.78	4.0
6/5/92	77	8.5	1550	0.87	4.1
6/12/92	69	8.6	1660	0.93	4.0
6/19/92	78	8.3	1530	0.87	4.2
6/26/92	74	8.3	1370	0.82	3.5
7/3/92	80	9.1	1370	0.76	3.1
7/10/92	81	8.2	1420	0.59	2.0
7/17/92	84	8.8	1530	0.80	4.3
7/24/92	79	8.9	1440	0.71	3.1
7/30/92	72	8.4	1640	0.73	2.9
8/7/92	82	8.6	1420	0.68	2.8
8/14/92	80	8.5	1560	0.67	2.4
8/23/92	72	7.8	1310	0.54	1.5
8/28/92	72	7.7	1370	0.65	2.6
9/4/92	76	7.8	1280	0.42	1.0
9/11/92	79	8.2	1670	0.75	1.4
9/18/92	74	8.2	1530	0.57	1.3
9/25/92	66	7.7	1530	0.55	1.2
10/2/92	72	7.7	1350	0.51	1.0
10/9/92	63	7.5	1580	0.57	1.0
10/16/92	69	8.1	1490	0.50	1.0
10/23/92	69	7.9	1450	0.50	1.0
10/29/92	64	8.0	690	0.23	
11/5/92	66	7.6	930	0.50	1.0
Count	130	122	163	165	165
Min	40	6.8	280	0.17	0.6
Max	84	9.6	2310	1.7	12
Mean	65	7.9	1469	0.85	4.0
Geo Mean	64	7.9	1410	0.79	3.3
Median	67	7.9	1520	0.85	3.7

Table-A7 San Joaquin River at Maze Blvd. (State Highway 132) (STC510)
Location: Latitude 37°38'31", Longitude 121°13'40". In SW 1/4, NW 1/4, SW 1/4, Sec. 29, T.3S., R.7E.
West Bank, 400 ft S of Maze Blvd Bridge upstream of Blewett Drain, 5.7 mi. NW of Grayson.
River Mile 77.2

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85			900	0.40	2
6/3/85			820	0.60	2
7/2/85			900	0.52	3
8/14/85			900	0.46	2
8/29/85			800	0.36	2
9/27/85			620	0.25	1
10/30/85			700	0.43	1
12/18/85			1110	0.66	<1
1/3/86			1040	0.65	2
1/9/86			870	0.54	2
1/14/86			1100	0.70	2
2/1/86		8.2	940	0.60	2
2/7/86		8.1	730	0.51	2
2/16/86		7.9	580	0.19	2
3/1/86		7.9	300	0.22	1
4/2/86					<1
4/19/86		7.6	200	0.14	<1
4/26/86		7.2	250	0.13	<1
5/12/86			280	0.15	<1
6/3/86			290	0.17	0.9
6/16/86			330	0.15	1.5
6/26/86			730	0.47	2.3
8/4/86			710	0.39	2.4
9/2/86					2.1
9/27/86			410	0.13	0.8
11/4/86				0.35	1.5
12/4/86		7.5		0.31	2.1
1/2/87			490	0.30	1.4
1/30/87			780	0.64	2.8
2/27/87			1420	1.1	5.8
4/1/87			1280	0.92	4.9
5/1/87			728	0.37	2.2
6/1/87			961	0.57	3.7
7/1/87			1200	0.91	3.3
7/31/87			1100	0.72	4.0
9/1/87			1120	0.68	3.6
10/1/87	74	7.9	1010	0.48	2.2
11/3/87	58	7.8	1100	0.64	2.3
12/1/87	50	7.4	1110	0.54	1.9
1/5/88	48		1350	0.74	3.4
1/28/88	52		1600	1.1	5.1
2/19/88	52	7.7	1550	1.1	6.5
3/9/88	60		1400	1.0	6.0
3/30/88	57	7.9	1500	1.1	5.5
5/5/88	62	7.8	1450	0.90	5.1
6/1/88	69	7.8	1250	0.80	4.5
6/29/88	67	7.6	1400	1.0	5.8
8/1/88	75	8.0	1450	0.90	5.2
9/1/88	75		1400	0.80	4.1
10/4/88	66	8.2	1620	0.72	5.6
11/1/88	64	7.6	1330	0.75	3.3
12/8/88	55		1310	0.75	3.2
1/11/89	46		1400	0.94	3.3
2/7/89	41		1550	1.0	7.3

Table-A7 San Joaquin River at Maze Blvd. (State HWY 132) (STC510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/1/89	55	7.4	1740	1.2	8.0
3/7/89	59	7.6	1140	0.75	5.4
3/29/89	62	7.4	1270	0.81	6.6
5/1/89	64	6.8	880	0.60	3.9
5/30/89	68	7.0	1240	0.79	4.9
7/5/89	82	7.8	1260	0.86	4.7
8/1/89	78	8.2	1250	0.82	4.1
9/1/89	76	0.2	1300	0.80	3.5
9/29/89	68	7.3	1200	0.65	3.4
10/30/89	59	7.4	1000	0.56	1.7
11/30/89	50	7.2	1050	0.65	2.2
12/29/89	42	7.7	1290	0.74	4.5
1/19/90	51	8.6	1520	0.91	6.3
2/2/90	51	7.1	1490	0.89	7.2
2/9/90	51	7.7	1470	1.0	8.9
2/19/90	48	7.6	1430	1.1	9.8
2/26/90			1440	1.1	6.3
3/5/90		7.6	1590	1.2	7.6
3/9/90	61	7.8	1490	1.0	7.8
3/16/90	60	7.7	1510	1.0	7.2
3/23/90	66	7.4	1580	1.0	8.4
3/30/90	66		1380	0.88	5.3
4/6/90	68	7.7	1270	0.72	3.5
4/12/90	74	8.0	1290	0.74	4.0
4/27/90			1370	0.75	3.1
5/4/90	76	8.0	930	0.56	3.5
5/18/90	74	7.9	1320	0.78	4.1
5/25/90	68	8.1	1340	0.74	3.7
5/31/90	68	8.0	1090	0.71	3.8
6/8/90	68	7.2	1470	0.89	4.4
6/15/90	76	7.8	1640	1.0	6.2
6/22/90	78	8.0	1390	0.84	3.8
6/28/90	70	8.1	1400	0.79	2.6
7/6/90	70	8.8	1380	0.91	4.0
7/13/90	76	9.1	1390	0.87	3.6
7/20/90	80	9.0	1170	0.74	3.2
7/27/90	74	9.0	1100	0.68	2.3
8/3/90	78	9.0	1260	0.79	4.0
8/9/90	83	8.0	1230	0.85	4.0
8/16/90	76	9.1	1170	0.66	2.8
8/24/90	76	7.6	1220	0.70	4.0
8/31/90	71	8.3	1200	0.67	3.3
9/14/90	74	8.3	1150	0.55	1.8
9/21/90	68	7.7	1200	0.62	3.3
9/28/90	68		1070	0.55	3.1
10/5/90	70	7.7	1190	0.51	2.6
10/12/90	62	7.1	1250	0.62	2.6
10/19/90	64	7.5	980	0.51	0.8
10/26/90	65	7.7	910	0.30	0.9
11/2/90	54	6.3	930	0.35	0.8
11/9/90	52	7.5	980	0.38	0.9
11/16/90	54	7.6	1010	0.40	0.9
11/27/90	48	7.7	1150	0.45	0.8
12/7/90	46	7.0	1160	0.51	1.2
12/14/90	48	7.8	1260	0.62	3.1
12/21/90	41	8.0	1310	0.67	3.4
12/28/90	40	7.5	1360	0.74	3.8
1/4/91	44	8.0	1340	0.70	3.1

Table-A7 San Joaquin River at Maze Blvd. (State HWY 132) (STC510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
1/10/91	52	7.7	1310	0.68	2.6
1/15/91	54	7.6	1430	0.77	2.9
1/18/91	52	7.7	1510	0.82	3.5
1/25/91	45	8.1	1700	0.80	3.1
2/1/91	48	7.0	1350	0.74	4.0
2/8/91	54	7.9	1370	0.79	3.2
2/15/91	60	7.7	1420	0.84	3.5
2/22/91	56	6.2	1460	0.79	3.1
3/1/91	56		1370	0.79	3.7
3/8/91	54	6.8	1500	0.92	3.7
3/15/91	52	9.2	1550	1.0	5.1
3/21/91	54	7.2	570	0.28	1.9
3/22/91	54	7.2	950	0.58	3.2
3/28/91	58	7.8	630	0.37	2.1
4/5/91	68	7.8	1550	1.0	5.2
4/11/91	58	8.1	1750	1.3	5.6
4/19/91	60		1520	0.84	3.9
4/25/91	63	7.8	760	0.45	2.3
5/2/91	60	7.9	530	0.28	1.3
5/9/91	64		1140	0.63	3.3
5/16/91	68	7.8	1150	0.58	2.5
5/23/91	66	7.0	800	0.37	1.7
5/30/91	64	8.3	1080	0.48	2.1
6/7/91	70	8.2	1340	0.70	3.1
6/14/91	72	8.3	1520	0.89	3.8
6/21/91		8.1	1500	0.64	3.4
6/28/91	67		1430	0.64	2.5
7/5/91	74	7.1	1440	0.68	2.7
7/12/91	74	7.8	1380	0.69	2.6
7/19/91	72	7.2	1290	0.75	3.0
7/26/91	72		1280	0.64	3.0
7/31/91	74		1230	0.57	2.7
8/9/91	83	9.4	1240	0.62	2.7
8/16/91	76		1310	0.68	2.5
8/23/91	68		1270	0.58	2.2
8/30/91	70	7.2	1280	0.63	2.4
9/7/91	72	7.2	1240	0.60	2.4
9/14/91	78	8.3	1210	0.54	2.5
9/21/91	70	7.4	1180	0.52	1.9
9/30/91	68	8.2	1160	0.47	1.8
10/4/91	78	8.8	1260	0.50	1.6
10/7/91	71	8.3	1380	0.51	1.2
10/10/91	74	8.1	1370	0.40	1.4
10/18/91	64	7.4	1240	0.41	0.9
10/25/91	59	7.2	1010	0.46	0.6
11/1/91	59	7.8	710	0.20	0.4
11/8/91	65	7.8	800	0.31	1.3
11/15/91	59	8.3	900	0.40	1.6
11/25/91	51	8.1	1030	0.53	2.1
12/6/91	49	8.0	990	0.43	1.0
12/13/91	49	7.8	1020	0.47	0.6
12/20/91		8.0	1130	0.56	1.3
12/26/91	48	8.0	1090	0.53	1.7
1/2/92	47	8.1	1140	0.64	2.5
1/10/92	49	7.8	1070	0.66	2.4
1/17/92	47	7.9	1230	0.68	2.0
1/24/92		8.4	1260	0.64	2.4
1/31/92	49	8.1	1230	0.69	3.2

Table-A7 San Joaquin River at Maze Blvd. (State HWY 132) (STC510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/7/92	54	7.9	1240	0.72	3.5
2/14/92	54	7.6	410	0.22	1.5
2/21/92	57	7.7	735	0.49	2.1
2/28/92	59	7.5	1260	0.90	3.6
3/6/92	59	7.8	1300	0.93	4.0
3/13/92	67	7.8	1390	0.82	4.4
3/20/92	62	8.0	1500	1.0	4.1
3/23/92	63	8.0	1450	1.0	5.4
3/26/92	68	7.9	1270	0.85	3.6
3/30/92	62	8.1	1470	1.1	4.2
4/2/92	70	8.0	1520	1.1	4.8
4/6/92	63	8.1	1500	1.1	4.4
4/9/92	69	8.2	1540	1.0	4.5
4/13/92	66	8.1	1500	0.95	4.4
4/16/92	71	8.1	1450	0.93	5.4
4/20/92	70	8.4	1190	0.77	3.7
4/23/92	67	8.3	1110	0.46	3.3
4/27/92	73	8.5	962	0.54	2.7
4/30/92	63	8.6	465	0.22	1.3
5/7/92	69	7.5	595	0.30	1.5
5/15/92	70	7.9	870	0.35	
5/21/92	69	8.5	1320	0.61	2.3
5/29/92	74	8.2	1210	0.56	2.3
6/5/92	76	8.6	1380	0.74	2.5
6/12/92	67	8.6	1290	0.64	2.1
6/19/92	74	7.9	1270	0.68	2.5
6/26/92	73	8.0	1330	0.75	2.6
7/3/92	80	9.0	1260	0.66	1.9
7/10/92	84	8.4	1300	0.66	1.8
7/17/92	86	8.7	1270	0.65	2.4
7/24/92	77	9.0	1380	0.71	2.0
7/30/92	72	8.4	1390	0.61	1.8
8/7/92	83	8.7	1290	0.63	2.0
8/14/92	80	8.4	1280	0.55	1.6
8/23/92	72	7.8	1260	0.59	1.4
8/28/92	74	7.7	1150	0.53	1.8
9/4/92	77	8.1	1130	0.44	0.9
9/11/92	79	8.0	1100	0.50	0.8
9/18/92	76	8.3	1280	0.49	1.2
9/25/92	65	8.4	1100	0.46	0.7
10/2/92	76	8.1	1220	0.48	0.7
10/9/92	62	7.4	1250	0.50	0.8
10/16/92	69	8.2	1150	0.43	0.9
10/23/92	70	8.1	930	0.31	0.5
10/29/92	63	8.0	490	0.17	0.7
11/5/92	64	7.6	745	0.40	1.0
11/13/92	56	7.9	865	0.45	1.4
11/30/92	51		930	0.34	0.5
12/4/92	51	8.1	890	0.34	0.5
12/14/92	46	8.9	1050	0.77	3.0
12/22/92	50	7.9	1200	0.92	3.0
12/30/92	45		1080	0.59	2.8
1/8/93	56	7.9	780	0.44	2.4
1/15/93			380	0.20	0.9
1/22/93	55	8.5	470	0.32	1.3
1/28/93	48		780	0.55	1.6
2/4/93	52	9.2	1190	0.81	3.3
2/10/93			610	0.37	1.8

Table-A7 San Joaquin River at Maze Blvd. (State HWY 132) (STC510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/19/93	57	8.0	920	0.64	3.5
2/25/93	57	7.8	870	0.58	3.4
3/5/93	60	7.8	920	0.61	3.0
3/12/93	67	7.3	1570	0.85	4.4
3/18/93	66	8.0	1620	0.87	4.9
3/25/93	59	7.4	1360	0.84	4.1
4/2/93	63	7.7	890	0.58	2.9
4/9/93	68	8.2	900	0.59	3.2
4/16/93	62	8.0	630	0.40	2.5
4/23/93	64	7.9	695	0.39	1.2
4/29/93	65	8.1	508	0.28	1.4
5/7/93	68	8.4	485	0.28	2.0
5/14/93	70	7.9	680	0.36	2.2
5/21/93	74	7.8	1040	0.56	3.0
5/26/93	79	7.8	1150	0.66	3.7
6/4/93	70	8.1	1030	0.48	1.3
6/11/93	72	7.8	626	0.42	2.8
6/18/93	78	8.2	659	0.49	2.9
6/24/93	70	7.3	872	0.52	2.9
7/2/93	82	7.4	1020	0.72	4.2
7/9/93	75	7.0	937	0.75	3.7
7/16/93	77	8.2	1040	0.76	4.0
7/23/93	83	7.9	941	0.55	3.7
7/29/93	76	7.1	781	0.57	2.9
8/6/93	80	7.6	798	0.54	3.1
8/13/93	79	7.7	606	0.39	2.2
8/20/93	76	7.3	638	0.43	2.1
8/26/93	83	7.5	608	0.45	2.1
9/3/93	66	7.7	390	0.19	1.4
9/10/93	76	7.5	1220	0.24	1.0
9/17/93	67	8.1	398	0.19	0.8
9/23/93	71	7.5	550	0.27	1.1
10/1/93	75	7.5	608	0.25	0.8
10/8/93	65	8.1	225	0.09	0.7
10/15/93	65	7.9	211	0.08	<0.4
10/21/93		8.0	503	0.28	0.9
10/29/93	66	8.1	689	0.42	1.4
11/5/93	62	7.4	807	0.43	1.2
11/12/93	59	7.7	926	0.48	1.3
11/22/93	56	7.8	996	0.55	2.0
11/30/93	55	7.8	902	0.53	2.1
12/3/93	53	7.8	1010	0.51	2.0
12/10/93	56	7.9	879	0.52	1.7
12/17/93		8.1	975	0.65	2.6
12/28/93	44	6.2	1020	0.68	2.2
1/7/94	48	7.5	780	0.48	1.8
1/13/94	52	8.0	808	0.64	1.7
1/21/94	54	8.7	926	0.58	2.6
1/27/94	51	8.2	957	0.67	2.6
2/3/94	50	7.4	1350	0.88	3.7
2/11/94	53	7.6	540	0.32	1.7
2/17/94	56	7.9	1150	0.75	4.4
2/23/94	53	7.5	822	0.56	3.6
3/4/94	64	7.7	1440	1.0	6.6
3/9/94	65	7.9	1450	0.97	7.0
3/16/94	63	7.7	1380	0.95	5.0
3/23/94	59	8.0	1360	0.91	6.8
3/31/94	66	7.1	1190	0.77	4.6

Table-A7 San Joaquin River at Maze Blvd. (State HWY 132) (STC510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
4/6/94		8.3	1080	0.68	5.1
4/15/94	72	7.8	1040	0.69	3.5
4/21/94	71	7.9	1110	0.64	4.0
4/27/94	61	7.8	484	0.29	2.0
5/10/94	66	7.0	524	0.36	3.9
5/16/94	68	8.1	976	0.55	3.8
5/25/94	70	6.3	1100	0.58	4.0
6/1/94	80	8.1	1130	0.71	3.7
6/8/94	67	8.0	1360	0.78	4.7
6/15/94	72	8.6	1460	0.90	4.0
6/21/94	76	8.6	1430	0.81	4.4
6/29/94	80	8.1	1440	0.93	5.9
7/6/94	79	8.1	1260	0.83	5.4
7/13/94	81	8.5	1510	0.97	6.7
7/21/94	79	8.0	974	0.61	5.1
7/27/94	79	8.0	732	0.58	3.6
8/3/94	76	8.4	1100	0.74	4.7
8/10/94	80	8.2	1360	0.83	4.5
8/16/94	82	8.0	1300	0.78	4.1
8/24/94	78	7.9	1220	0.74	3.3
8/31/94	70	7.7	1250	0.73	3.6
9/7/94	78	8.4	1160	0.56	3.5
9/14/94	74	8.5	1200	0.50	2.7
9/22/94	77	8.3	1270	0.60	3.5
9/29/94	69	7.7	1040	0.41	1.5
10/7/94	70	7.8	931	0.31	0.8
10/12/94	64	8.1	962	0.32	0.7
10/20/94	68	7.9	606	0.25	0.7
10/27/94	66	7.6	912	0.46	2.9
11/8/94	54	7.8	915	0.43	1.6
11/10/94	54	7.8	1030	0.50	1.9
11/18/94	54	7.9	1080	0.54	1.8
11/22/94	52		1100	0.56	1.8
12/9/94	47		1050	0.56	2.1
12/15/94	50		1090	0.57	2.4
12/21/94	50		1220	0.67	2.9
12/29/94	51	7.9	1190	0.62	2.7
1/12/95	54	7.3		0.33	1.1
1/19/95	50	7.2		0.36	1.2
1/26/95	53	7.8	385	0.21	1.0
2/9/95	52	8.1	451	0.30	1.7
2/23/95	57	8.4	482	0.30	2.4
3/3/95	59	8.2	835	0.50	3.7
3/9/95	58		861	0.53	3.9
3/23/95	52	6.9	347	0.19	1.2
4/6/95	63	8.7	239	0.14	0.7
4/12/95	64	8.0	206	0.11	0.6
4/21/95	59	8.3	192	0.04	0.8
4/26/95	64	7.7	174	0.09	0.6
5/3/95	68	7.6	206	0.03	0.6
5/12/95	62	7.8	142	0.06	0.5
5/26/95	63	7.7	125	0.06	0.7
6/2/95	70	8.1	139	0.06	<0.4
6/9/95	63	7.5	142	0.08	0.5
6/16/95	60	7.1	197	0.11	0.5
6/23/95	71	8.6	215	0.12	0.9
6/28/95	76	7.6	500	0.29	1.6
7/6/95	78	7.7	198	0.09	0.8

Table-A7 San Joaquin River at Maze Blvd. (State HWY 132) (STC510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/13/95	68	7.8	129	0.05	0.5
7/27/95	74	7.6	416	0.29	1.8
8/3/95	78	8.0	284	0.16	1.2
8/10/95	78	7.9	630	0.32	2.3
8/17/95	75	8.0	631	0.36	2.4
8/24/95	78	8.5	586	0.30	1.9
8/31/95	66	7.9	442	0.26	1.6
9/7/95	76	8.2	483	0.26	2.6
9/15/95	73	8.0	377	0.21	1.5
9/22/95	73	8.0	377	0.11	1.1
9/28/95	68	7.3	254	0.10	0.7
Count	308	297	349	353	354
Min	40	0.2	125	0.03	<0.4
Max	86	9.4	1750	1.3	9.8
Mean	65	7.9	1033	0.59	2.8
Geo Mean	64	7.8	930	0.51	2.3
Median	66	7.9	1107	0.58	2.5

Table-A8 San Joaquin River at Airport Way (SJC501)

Location: Latitude 37°40'32", Longitude 121°15'51". In SE 1/4, SW 1/4, NW 1/4, Sec. 13, T.3S., R.6E.
West Bank, south of Airport Way Bridge, 3.2 miles NE of Vernalis
River Mile 72.3

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85			680	0.20	2
6/3/85			640	0.45	1
7/2/85			510	0.30	1
8/14/85			480	0.23	1
8/29/85			540	0.23	1
9/27/85			540	0.31	1
10/30/85			590	0.18	<1
12/18/85			980	0.54	4
1/3/86				0.51	2
1/9/86			750	0.41	1
1/14/86			940	0.70	1
2/1/86		8.1	810	0.60	2
2/7/86		7.9	600	0.38	2
2/16/86		7.9	520		2
3/2/86		7.9	260	0.18	1
4/2/86					<1
4/19/86		7.6	180	0.13	1
4/26/86		7.2	250	0.12	<1
5/12/86		7.9	290	0.15	<1
6/3/86		7.8	270	0.21	0.6
6/16/86			290	0.10	1.0
6/26/86		7.9	560	0.31	1.4
8/4/86			520	0.24	17
9/2/86			480	0.22	1.4
9/27/86			730	0.13	0.6
11/4/86				0.26	1.2
12/4/86		7.5		0.25	1.7
1/2/87			340	0.18	0.9
1/30/87			610	0.43	2.4
2/27/87			833	0.59	3.2
4/1/87			826	0.55	2.9
5/1/87			540	0.25	1.6
6/1/87			714	0.39	2.8
6/15/87			705	0.30	2.3
7/1/87			800	0.55	2.2
7/15/87			830	0.62	2.5
7/31/87			930	0.54	2.9
8/17/87			916	0.52	2.8
9/1/87			840	0.47	2.3
9/18/87			804	0.40	1.9
10/1/87	72	7.9	855	0.38	1.8
10/15/87	62		747	0.28	0.8
11/3/87	58	7.8	960	0.56	2.0
11/17/87	54	7.0	886	0.47	1.8
12/1/87	50	7.3	930	0.44	1.7
12/14/87	43	7.2	1100	0.56	1.6
1/5/88	48		1200	0.62	3.1
1/15/88	51	7.8	1300	0.80	3.3
1/28/88	52		1450	0.94	
2/16/88	56	7.9	1400	0.95	6.5
2/19/88	59	7.6	1350	0.94	6.5
2/24/88	59	7.8	1450	0.93	
3/2/88	56	7.4	1000	0.64	4.0
3/9/88	57		900	0.60	3.7
3/18/88	57		900	0.61	2.9

Table-A8 San Joaquin River at Airport Way (SJC501) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/24/88	60	7.4	850	0.60	3.4
3/30/88	56	7.7	800	0.52	2.8
4/8/88	59	7.7	750	0.41	2.2
4/15/88	60		650	0.40	2.4
4/22/88	66	8.0	850	0.50	3.2
4/28/88	66	7.9	650	0.40	2.5
5/5/88	62	7.6	850	0.40	2.6
5/11/88	65	7.8	700	0.40	2.4
5/19/88	66	7.3	750	0.40	2.0
5/25/88	66	8.0	750	0.40	2.1
6/1/88	68	7.7	800	0.50	2.6
6/6/88	63	7.0	800	0.50	2.4
6/13/88	72	7.7	900	0.60	3.4
6/23/88	74	7.9	750	0.40	2.2
6/29/88	66	7.4	900	0.60	3.1
7/6/88	76	8.4	890	0.50	3.2
7/13/88	72		1050	0.70	4.0
7/20/88	79	8.3	900	0.50	2.7
7/27/88	78		815	0.50	2.7
8/1/88		8.0	950	0.56	3.2
8/9/88	71	7.6	950	0.55	3.4
8/16/88	70	8.4	950	0.55	3.5
8/23/88	75		900	0.57	3.4
9/1/88	73		840	0.44	2.9
9/8/88	71		910	0.47	2.8
9/15/88	67		850	0.43	2.4
9/20/88	65		850	0.43	2.7
9/29/88	68	8.5	940	0.39	2.3
10/4/88	62	8.2	1060	0.42	2.4
10/11/88	66		1000	0.39	1.7
10/25/88	64	7.5	950	0.41	1.7
11/1/88	63	7.6	980	0.50	2.0
11/10/88	58	7.5	1040	0.46	1.4
11/15/88	58	7.9	1000		1.8
11/22/88	53	7.4	1050	0.54	2.2
12/8/88	55		1000	0.54	2.0
12/28/88	44		1150	0.66	4.7
1/11/89	46		1150	0.77	3.3
1/26/89	49		1300	0.78	4.6
1/31/89	50		1300	0.87	5.2
2/7/89	41		1350	0.82	6.0
2/14/89	46	7.9	1330	0.82	5.6
2/21/89	60		1510	0.98	6.3
3/1/89	55	7.3	1470	1.0	6.8
3/7/89	56	7.5	920	0.55	4.4
3/15/89	57		900	0.59	4.2
3/21/89	62		820	0.49	4.3
3/29/89	60	7.3	790	0.44	3.4
4/5/89	62	7.2	980	0.48	3.4
4/12/89	69	7.3	780	0.42	2.9
4/20/89	68		740	0.55	2.6
4/26/89	62	7.9	850	0.59	2.1
5/1/89	64	6.6	810	0.54	3.1
5/10/89	63	6.8	750	0.45	2.7
5/17/89	68	7.0	810	0.48	2.7
5/24/89	64	7.0	720	0.37	1.7
5/30/89	66	6.8	720	0.40	2.4
6/7/89	69	6.8	775	0.45	3.0

Table-A8 San Joaquin River at Airport Way (SJC501) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/14/89	68		830	0.51	2.9
6/21/89	68		810	0.50	2.6
6/27/89		8.0	720	0.58	2.9
7/5/89	80	7.8	900	0.56	3.1
7/12/89	73	6.9	930	0.57	2.7
7/19/89	74	7.6	840	0.50	2.5
7/25/89	79	7.9	940	0.55	2.6
8/1/89	78	8.3	990	0.62	3.1
8/9/89	76	8.0	1020	0.55	2.7
8/16/89	77	7.9	1080	0.64	3.0
8/24/89	77	8.3	1100	0.72	3.1
9/1/89	76	8.2	1110	0.66	2.8
9/6/89	70	8.1	1160	0.70	3.0
9/13/89	73	8.0	990	0.52	2.2
9/21/89	70	7.5	930	0.52	2.2
9/29/89	70	7.6	1000	0.53	3.0
10/6/89	69	7.6	1080	0.51	2.6
10/13/89	68	7.6	1010	0.47	3.0
10/20/89	65	7.6	870	0.50	2.2
10/30/89	59	7.6	930	0.51	1.7
11/6/89	59	7.8	960	0.54	2.4
11/13/89	59	6.6	950	0.51	1.6
11/20/89	55	7.9	950	0.49	2.7
11/30/89	51	6.6	920	0.53	2.3
12/8/89	50	7.9	996	0.54	1.9
12/15/89	44	7.9	980	0.50	2.3
12/21/89	45	7.8	1170	0.64	3.1
12/29/89	42	7.4	1200	0.66	0.8
1/5/90	42	8.0	1190	0.66	4.4
1/11/90	45	8.2	1230	0.73	4.8
1/19/90	51		1350	0.77	4.9
1/26/90	53	7.9	1340	0.83	5.4
2/2/90	51	7.1	1330	0.76	6.0
2/9/90	51	7.7	1370	0.89	7.6
2/19/90	48	6.8	1290	0.96	9.6
2/26/90			1380	1.1	6.4
3/5/90		7.3	1170	0.87	5.4
3/9/90	61	7.9	1100	0.71	5.0
3/16/90	58	7.4	720	0.37	3.3
3/23/90	63	7.4	720	0.41	3.9
3/30/90	63		780	0.45	2.5
4/6/90	68	7.7	870	0.45	2.0
4/12/90	75	7.9	870	0.46	2.3
4/20/90	64	7.7	840	0.50	2.4
4/27/90			800	0.40	1.6
5/4/90	75	7.9	760	0.44	2.4
5/11/90	64	8.2	600	0.31	1.6
5/18/90	72	8.1	900	0.44	2.2
5/25/90	67	8.2	850	0.45	2.1
5/31/90	66	7.2	920	0.56	2.9
6/8/90	70	7.0	990	0.52	2.7
6/15/90	71	8.2	860	0.45	2.4
6/22/90	78	8.2	1010	0.56	2.1
6/28/90	70	7.9	930	0.50	1.5
7/6/90	70	9.0	930	0.62	2.7
7/13/90	74	9.0	750	0.45	1.8
7/20/90	78	9.2	830	0.51	2.2
7/27/90	72	9.2	850	0.50	1.6

Table-A8 San Joaquin River at Airport Way (SJC501) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/3/90	77	9.2	910	0.46	2.5
8/9/90	80	7.9	890	0.52	2.4
8/16/90	70	9.4	850	0.44	1.8
8/24/90	76	7.5	870	0.44	2.6
8/31/90	73	8.2	860	0.45	2.1
9/7/90	71	8.2	910	0.44	1.8
9/14/90	74	8.3	910	0.41	1.2
9/21/90	69	7.7	930	0.44	2.3
9/28/90	66		920	0.46	2.0
10/5/90	70	7.7	1050	0.44	1.9
10/12/90	60	6.6	688	0.30	1.2
10/19/90	64	7.6	770	0.35	0.6
10/26/90	66	7.7	750	0.24	0.8
11/2/90	54	6.0	690	0.26	0.5
11/9/90	52	7.5	760	0.28	0.6
11/16/90	55	7.6	810	0.32	0.7
11/27/90	52	7.7	850	0.32	0.5
12/7/90	46	6.7	1050	0.44	0.8
12/14/90	46	7.7	1010	0.48	2.1
12/21/90	42	7.7	1110	0.54	2.7
12/28/90	39	7.6	1160	0.60	2.2
1/4/91	44	8.5	1110	0.55	2.4
1/10/91	52	7.6	1080	0.54	1.9
1/15/91	54	7.7	1190	0.58	2.7
1/18/91	52	7.6	1220	0.62	2.9
1/25/91	44	7.5	1190	0.60	2.2
2/1/91	46	6.9	1160	0.61	3.1
2/8/91	54	7.8	1120	0.60	2.3
2/15/91	60	7.7	1170	0.65	2.8
2/22/91	56	6.3	1130	0.57	2.2
3/1/91	56		1100	0.61	2.9
3/8/91	52	6.3	1340	0.82	3.5
3/15/91	52	9.1	1420	0.92	4.8
3/21/91	54	7.2	900	0.57	3.5
3/22/91	54	7.2	620	0.28	1.6
3/28/91	58	7.3	590	0.31	1.6
4/5/91	67	7.9	1460	0.98	4.8
4/11/91	58	8.1	1680	1.2	4.7
4/19/91	60		1470	0.77	3.4
4/25/91	64	7.7	760	0.44	2.2
5/2/91	60	7.4	410	0.20	0.9
5/9/91	64		860	0.44	2.0
5/16/91	68	7.7	900	0.43	2.0
5/23/91	64	6.3	570	0.24	1.1
5/30/91	64	8.1	880	0.38	1.4
6/7/91	72	7.9	990	0.47	1.8
6/14/91	74	8.4	1090	0.64	2.5
6/21/91		8.2	1100	0.42	2.8
6/28/91	66		970	0.46	1.8
7/5/91	74	6.6	990	0.46	1.8
7/12/91	72	7.5	880	0.40	1.6
7/19/91	72	7.0	940	0.48	2.6
7/26/91	72		960	0.46	2.5
7/31/91	72		920	0.42	2.5
8/9/91	83	9.5	950	0.42	1.5
8/16/91	76		1050	0.50	1.9
8/23/91	68		1030	0.45	1.4
8/30/91	70	6.7	960	0.47	1.3

Table-A8 San Joaquin River at Airport Way (SJC501) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/7/91	72	6.9	900	0.43	1.5
9/14/91	78	8.4	1000	0.43	1.7
9/21/91	70	7.2	1020	0.45	1.3
9/30/91	68	7.9	980	0.35	1.3
10/4/91	80	8.9	1180	0.45	1.3
10/7/91	72	8.4	1180	0.42	1.1
10/10/91	74	8.3	1170	0.35	1.8
10/18/91	64	6.6	1130	0.37	0.8
10/25/91	59	6.9	840	0.34	0.6
11/1/91	59	7.8	590	0.17	0.4
11/8/91	64	7.8	700	0.26	1.0
11/15/91		8.1	785	0.36	1.3
11/25/91	50	8.5	880	0.41	1.7
12/6/91	49	7.9	850	0.36	0.8
12/13/91	49	7.9	870	0.40	0.4
12/20/91		8.1	1010	0.49	1.3
12/26/91	47	8.0	1000	0.49	1.4
1/2/92	47	8.2	1060	0.55	2.2
1/10/92	49	7.8	1010	0.65	1.9
1/17/92	48	7.8	1130	0.62	1.7
1/24/92		8.3	1450	0.56	2.1
1/31/92	48	8.4	1110	0.62	2.7
2/7/92	52	8.1	1130	0.64	2.7
2/14/92	54	8.2	410	0.22	1.5
2/21/92	57	7.5	660	0.42	2.0
2/28/92	58	7.3	1130	0.78	3.1
3/6/92	58	7.8	1220	0.79	3.4
3/13/92	67	7.7	1250	0.70	3.8
3/20/92	62	8.0	1370	0.93	3.7
3/23/92	64	7.8	1290	0.88	4.4
3/26/92	67	7.8	1020	0.66	2.8
3/30/92	62	8.0	1150	0.77	3.4
4/2/92	68	8.0	1140	0.78	3.5
4/6/92	62	8.1	980	0.70	2.7
4/9/92	66	8.2	930	0.59	2.3
4/13/92	64	8.1	880	0.52	2.3
4/16/92	68	8.3	823	0.48	2.7
4/20/92	69	8.4	758	0.46	2.2
4/23/92	66	8.4	756	0.46	2.1
4/27/92	70	8.5	553	0.27	1.3
4/30/92	63	8.4	389	0.16	0.9
5/7/92	70	7.4	570	0.30	1.5
5/15/92	70	7.4	750	0.29	
5/21/92	69	8.5	865	0.38	2.7
5/29/92	71	8.1	800	0.35	1.2
6/5/92	76	8.6	895	0.46	1.6
6/12/92	67	8.4	895	0.43	1.5
6/19/92	75	7.5	910	0.49	3.1
6/26/92	71	7.8	920	0.50	1.8
7/3/92	80	8.6	910	0.42	1.3
7/10/92	85	8.6	980	0.45	1.3
7/17/92	84	8.8	940	0.43	1.6
7/24/92	79	9.2	892	0.41	1.1
7/30/92	71	8.5	1030	0.44	1.2
8/7/92	83	8.9	965	0.44	1.1
8/14/92	80	8.6	962	0.40	1.3
8/23/92	72	7.8	850	0.36	1.1
8/28/92	72	7.4	850	0.38	1.4

Table-A8 San Joaquin River at Airport Way (SJC501) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/4/92	75	8.0	965	0.34	0.7
9/11/92	79	7.9	850	0.33	0.8
9/18/92	76	8.4	910	0.41	0.9
9/25/92	66	7.6	930	0.35	0.5
10/2/92	70	7.8	1010	0.38	0.7
10/9/92	62	6.7	1050	0.41	0.7
10/16/92	69	8.3	1110	0.35	0.9
10/23/92	69	8.0	680	0.22	0.5
10/29/92	62	8.0	470	0.01	<0.4
11/5/92	64	7.3	705	0.36	1.1
11/13/92	55	7.9	817	0.41	1.3
11/30/92	51		850	0.32	0.5
12/4/92	52	8.0	830	0.29	0.6
12/14/92	46	8.9	995	0.71	2.6
12/22/92	50	8.0	1120	0.83	2.8
12/30/92	45		1000	0.53	2.1
1/8/93	56	7.8	770	0.45	2.6
1/15/93			360	0.19	1.1
1/22/93	54	8.3	390	0.31	1.3
1/28/93	49		710	0.48	1.4
2/4/93	52	9.6	1060	0.71	2.9
2/10/93			520	0.31	1.6
2/19/93	58	8.1	990	0.67	6.1
2/25/93	57	7.9	800	0.54	2.8
3/5/93	60	7.9	870	0.58	2.7
3/12/93	66	7.3	1390	0.82	3.8
3/18/93	66	7.8	1420	0.71	4.1
3/25/93	58	7.2	1050	0.59	3.1
4/2/93	65	7.7	830	0.51	2.9
4/9/93	66	8.2	850	0.54	2.4
4/16/93	62	8.0	610	0.38	2.5
4/23/93	63	7.8	640	0.29	0.6
4/29/93	64	8.2	418	0.20	1.0
5/7/93			393	0.20	1.4
5/14/93	68	8.1	470	0.22	1.9
5/21/93	70	7.8	666	0.33	1.8
5/26/93	75	7.8	610	0.33	1.6
6/4/93	68	8.3	543	0.22	0.6
6/11/93	73	7.8	540	0.35	2.5
6/18/93	78	8.2	592	0.40	2.4
6/24/93	70	7.3	790	0.44	2.3
7/2/93	82	7.5	888	0.53	3.2
7/9/93	74	6.7	763	0.54	2.8
7/16/93	76	8.2	866	0.55	2.9
7/23/93	80	8.0	710	0.45	2.2
7/29/93	76	7.3	644	0.44	2.1
8/6/93	80	7.5	686	0.42	2.5
8/13/93	80	7.8	564	0.35	1.9
8/20/93	75	7.4	563	0.36	1.6
8/26/93	81	7.6	570	0.37	2.1
9/3/93	76	7.7	362	0.19	1.0
9/10/93	76	7.6	384	0.22	1.4
9/17/93	67	8.1	372	0.17	0.8
9/24/93	78	7.9	485	0.24	0.9
10/1/93	75	7.5	574	0.20	1.0
10/8/93	63	7.8	222	0.09	0.7
10/15/93	66	7.9	217	0.07	0.4
10/29/93	65	7.8	589	0.33	0.9

Table-A8 San Joaquin River at Airport Way (SJC501) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
11/5/93	62	7.1	726	0.38	2.0
11/12/93	58	7.8	803	0.40	1.1
11/22/93	56	7.7	837	0.45	1.5
11/30/93	55	7.7	774	0.46	1.6
12/3/93	53	7.8	864	0.43	1.6
12/10/93	56	7.9	744	0.55	2.8
12/17/93		8.0	836	0.50	2.0
12/28/93	44	5.5	878	0.51	1.7
1/7/94	47	7.5	705	0.43	1.4
1/13/94	52	7.6	703	0.68	1.4
1/21/94	55	9.0	815	0.51	2.0
1/27/94	50	8.5	841	0.53	2.0
2/3/94	50	7.6	1160	0.73	2.5
2/11/94	52	7.6	648	0.36	2.2
2/17/94	55	7.9	1020	0.73	3.8
2/23/94	53	7.1	764	0.53	3.1
3/4/94	63	7.7	1270	0.95	6.3
3/9/94	63	7.9	1040	0.68	4.9
3/16/94	61	7.7	934	0.64	3.2
3/23/94	59	8.0	941	0.64	4.1
3/31/94	64	7.5	840	0.52	3.0
4/6/94		8.3	879	0.60	3.4
4/15/94	72	7.8	864	0.49	2.8
4/21/94	71	7.9	914	0.52	2.8
4/27/94	60	7.7	370	0.21	1.5
5/10/94	66	6.5	492	0.29	2.8
5/16/94	68	8.1	849	0.44	2.6
5/25/94	64	6.6	678	0.33	2.4
6/1/94	79	8.2	893	0.61	2.8
6/8/94	67	8.0	980	0.54	3.1
6/15/94	70	8.8	950	0.59	2.5
6/21/94	74	8.8	780	0.40	2.8
6/29/94		8.4	854	0.49	3.3
7/6/94	79	8.2	823	0.46	3.5
7/13/94	80	8.6	950	0.47	3.8
7/21/94	77	8.1	704	0.02	3.5
7/27/94	79	7.8	611	0.46	3.1
8/3/94	76	8.4	879	0.55	3.6
8/10/94	80	8.4	926	0.46	3.1
8/16/94	80	8.2	907	0.51	2.8
8/24/94	76	7.1	833	0.46	1.8
8/31/94	69	7.3	950	0.49	2.3
9/7/94	76	8.5	1000	0.48	3.0
9/14/94	76	8.6	978	0.40	2.3
9/22/94	76	8.4	977	0.50	2.1
9/29/94	66	7.7	900	0.40	1.9
10/7/94	70	7.8	842	0.28	0.9
10/12/94	66	8.3	853	0.29	0.5
10/20/94	69	6.6	460	0.18	0.5
10/27/94	68	7.6	755	0.36	1.7
11/8/94	56	7.7	751	0.35	1.1
11/10/94	52	8.0	890	0.42	1.6
11/18/94	52	7.9	942	0.43	1.3
11/22/94	52		995	0.52	1.9
12/9/94	47		913	0.48	2.3
12/15/94	50		950	0.49	1.8
12/21/94	50		1010	0.56	2.5
12/29/94	50	7.8	1020	0.51	2.1

Table-A8 San Joaquin River at Airport Way (SJC501) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
1/5/95	51	7.5	902	0.50	2.2
1/12/95	54	7.2		0.25	1.2
1/19/95				0.28	1.0
1/26/95	53	7.7	351	0.19	0.8
2/9/95	52	8.2	436	0.28	1.7
2/17/95	52	8.4	430	0.25	2.6
2/23/95	56	8.3	488	0.31	2.2
3/3/95	58	8.2	762	0.45	3.2
3/9/95	58		785	0.47	3.5
3/23/95	52	6.9	349	0.18	1.2
3/29/95	59	8.7	258	0.12	0.7
4/6/95	63	8.5	238	0.13	0.8
4/12/95	63	7.5	204	0.10	0.6
4/21/95	59	8.0	210	0.06	1.2
4/26/95	66	7.7	143	0.08	0.6
5/3/95	67	7.6	199	0.06	1.1
5/12/95	62	7.6	141	0.07	0.4
5/26/95	64	7.8	123	0.06	0.6
6/2/95	70	8.1	132	0.07	0.4
6/9/95	64	6.9	177	0.08	0.6
6/16/95	60	6.1	303	0.15	0.7
6/23/95	70	8.9	226	0.13	1.4
6/28/95	76	7.7	481	0.27	1.4
7/6/95	78	7.6	208	0.09	0.8
7/13/95	69	7.4	132	0.06	0.5
7/20/95	79	7.9	241	0.16	1.3
7/27/95	74	7.6	428	0.28	1.6
8/3/95	76	7.9	285	0.16	1.1
8/10/95	78	7.8	620	0.31	2.0
8/17/95	74	7.9	581	0.33	2.2
8/24/95	78	8.5	542	0.27	1.7
8/31/95	65	8.1	420	0.25	1.8
9/7/95	76	8.4	446	0.23	1.9
9/15/95	74	7.9	350	0.18	1.5
9/22/95	70	8.0	214	0.11	0.9
9/28/95	67	7.3	245	0.10	0.8
Count	383	358	433	436	436
Min	39	5.5	123	0.01	<0.4
Max	85	9.6	1680	1.2	17
Mean	64	7.8	841	0.46	2.3
Geo Mean	63	7.8	778	0.41	1.9
Median	65	7.8	870	0.45	2.1