APPENDIX C

Electrical Conductivity, Boron, and Selenium Water Quality Data for Grasslands Internal Monitoring Stations

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Appendix Legend

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

Table-C1 CCID Main at Russel Avenue (MER510)

Location: Latitude 36°55'28", Longitude 120°39'11". In SE 1/4, SE 1/4, SE 1/4, Sec. 33, T.11S., R.12E. 2.7 mi. south of Dos Palos.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/15/85			430	0.21	<1
8/28/85		7.8	430	0.15	<1
9/28/85			540	0.23	<1
10/31/85		8.6	600	0.31	1
12/7/85		8.4	770	0.63	2
1/4/86		8.9	2100	2.7	16
3/2/86		8.7	100	0.11	<1
4/27/86		8.0	56	0.02	<1
6/4/86		7.8	50	0.04	1.2
6/26/86		8.2	400	0.13	1.7
8/5/86		8.9	640	0.42	2.6
9/2/86			370	0.19	1.3
9/28/86		8.7	330	0.22	0.7
11/3/86				0.20	1.3
12/4/86		8.2		0.22	1.5
1/3/87		8.8	520	0.31	3.6
1/30/87		8.1	450	0.28	1.6
2/27/87		8.4	717	0.54	3.0
4/1/87		8.4	1020	0.87	5.2
5/1/87		9.0	542	0.37	2.3
6/1/87		7.8	545	0.24	2.2
7/1/87			570	0.44	2.5
7/31/87		8.2	600	0.19	1.5
9/1/87			573	0.20	2.2
10/1/87		7.9	71	0.21	1.0
11/3/87		8.1	76	0.28	0.8
12/1/87		8.3	81	0.25	2.1
1/5/88		8.2	135	1.2	3.6
1/27/88		8.4	75	0.33	1.5
3/9/88			95	0.60	3.5
3/30/88		8.2	80	0.30	1.9
5/5/88		8.2	65	0.40	2.6
6/1/88		8.1	55	0.20	1.7
6/29/88		8.2	65	0.30	1.3
8/1/88		8.2	70	0.25	1.6
9/1/88			82	0.22	1.6
10/4/88	65		790	0.23	1.9
11/1/88	67	8.2	820	0.26	1.8
12/8/88	52		830	0.28	1.7
1/11/89	48		870	0.31	2.4
2/7/89	45	8.1	750	0.24	1.7
3/1/89	58	8.4	864	0.32	1.8
3/29/89	67	7.7	474	0.17	1.3
5/1/89	69	7.8	420	0.26	2.0
5/30/89	75	8.1	392	0.20	0.7
7/5/89	78	8.0	650	0.35	1.9
8/1/89	72	8.4	366	0.15	1.0
9/1/89	72	8.5	579	0.29	1.7
10/6/89	66	6.4	470	0.10	1.1
10/30/89	62	8.6	620	0.21	0.8
11/30/89	51	8.3	660	0.18	1.4
12/29/89	45	7.8	770	0.34	2.7
1/19/90	44	8.8	830	0.37	2.3
2/2/90	45	8.5	880	0.38	4.0
3/30/90	61	8.1	650	0.32	2.5

Table-C1 CCID Main at Russel Avenue (MER510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
4/12/90	64	8.6	595	0.16	1.7
4/27/90	66	8.2	680	0.16	1.6
5/31/90	69	7.9	4280	5.2	76
6/28/90	67	9.4	670	0.26	1.2
7/27/90	83	7.8	2330	5.1	4.9
8/30/90	78	8.3	460	0.16	0.7
9/28/90	68	7.7	2610	3.9	3.8
10/26/90	63	8.1	630	0.17	0.6
11/27/90	44	8.4	890	0.48	1.2
12/28/90	36	8.1	750	0.22	1.7
1/25/91	50	8.0	985	0.43	2.1
2/22/91	55	9.4	3790	4.9	5.0
3/28/91	58	8.1	1020	0.45	2.0
4/25/91	69	8.1	545	0.30	2.2
5/9/91	60	7.9	710	0.38	2.4
5/14/91	60	8.0	720	0.40	2.5
5/16/91	64	8.4	680	0.38	1.8
5/19/91	58	8.4	655	0.40	2.0
5/21/91	62	8.0	610	0.30	1.8
5/23/91	76	8.6	700	0.29	2.2
5/25/91	68	8.0	660	0.40	2.4
5/28/91	64	8.0	670	0.30	2.8
5/30/91	68	8.8	690	0.30	1.3
6/1/91	70	7.9	700	0.30	1.2
6/3/91	72	8.0	720	0.30	1.2
6/5/91	68	7.9	710	0.30	1.8
6/7/91	66	8.0	690	0.29	2.1
6/10/91	74	7.9	770	0.30	1.5
6/12/91	76	8.0	710	0.30	1.4
6/14/91	72	8.2	760	0.28	1.9
6/17/91	72	8.2	740	0.20	1.5
6/19/91	72	8.1	715	0.30	1.9
6/21/91	64	7.8	730	0.24	2.0
6/24/91	64	8.0	700	0.30	1.2
6/26/91	74	8.4	730	0.30	1.3
6/28/91	64	8.3	700	0.24	1.7
7/1/91	80	9.0	760	0.30	2.4
7/3/91	74	7.7	770	0.30	1.1
7/5/91	84	8.6	780	0.25	1.5
7/8/91	82	8.4	740	0.30	1.5
7/10/91	74	8.3	730	0.20	1.6
7/12/91	70	7.5	740	0.25	0.8
7/15/91	70	8.2	710	0.18	1.9
7/17/91	78	8.7	700	0.22	1.2
7/19/91	76	8.6	690	0.18	1.3
7/22/91	78	8.1	690	0.20	2.2
7/24/91	70		720	0.20	1.8
7/26/91	82		710	0.22	1.4
7/29/91	74		700	0.20	1.1
7/31/91	74		710	0.18	1.4
8/2/91	60	8.7	680	0.20	0.9
8/5/91	74	8.8	710	0.20	1.7
8/7/91	76	8.1	690	0.20	0.8
8/9/91	74	8.8	700	0.19	0.8
8/12/91	74	8.1	680	0.20	1.5
8/14/91	80	7.7	690	0.20	1.4
8/16/91	69		690	0.25	1.0
8/19/91	71	8.7	680	0.20	0.7

Table-C1 CCID Main at Russel Avenue (MER510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/21/91	76		680	0.20	0.8
8/23/91	70		710	0.28	1.2
8/26/91	70	7.8	620	0.20	1.4
8/28/91	74	8.2	620	0.20	0.8
8/30/91	75	8.2	760	0.28	0.6
9/7/91	78	8.5	540	0.16	1.3
9/10/91	76	8.8	515	0.20	2.0
9/14/91	74	8.1	560	0.19	1.5
9/17/91	80	7.8	670	0.30	1.5
9/21/91	78	8.4	650	0.21	1.6
9/23/91	80	8.6	620	0.20	1.6
9/27/91	76	8.4	640	0.20	1.5
9/30/91	74	8.0	780	0.29	0.9
10/4/91	80	8.2	710	0.26	1.5
10/7/91	72	7.9	680	0.23	0.8
10/11/91	69	7.5	600	0.17	1.2
10/18/91	71	8.0	560	0.16	0.9
10/25/91		7.4	530	0.20	0.7
11/1/91	59	8.4	600	0.22	1.0
11/8/91	64	8.2	660	0.26	2.1
11/15/91	59	8.4	750	0.31	2.3
11/25/91	55	7.9	760	0.25	1.0
12/6/91	44	8.6	880	0.38	2.6
12/13/91	46	8.7	930	0.46	3.2
12/20/91		8.8	1030	0.54	4.6
12/26/91	48	8.9	1040	0.64	4.5
1/10/92	48	8.5	1040	0.67	2.4
1/17/92	44	8.9	1060	0.73	3.5
1/24/92		8.3	1040	0.65	4.9
1/31/92		8.3	1330	1.0	4.8
2/28/92	65	8.3	1280	0.86	3.1
3/6/92	56	8.1	790	0.44	1.8
3/20/92	59	8.2	635	0.36	2.1
3/26/92	63	8.1	545	0.30	2.0
3/30/92	64	8.3	770	0.49	2.1
4/2/92	63	8.3	875	0.55	3.1
4/6/92	63	8.3	875	0.55	3.1
4/9/92	62	8.5	901	0.72	3.2
4/16/92	63	8.4	885	0.54	2.6
4/23/92	62	8.5	743	0.46	2.0
4/30/92	69	8.3	847	0.45	1.7
5/7/92	74	8.5	840	0.43	2.8
5/15/92	74	8.4	780	0.42	2.0
5/21/92		8.5	740	0.33	2.3
5/28/92	78	8.5	700	0.31	
5/29/92	74	8.3	715	0.41	2.6
6/5/92	79	8.4	690	0.33	2.3
6/12/92	72	8.4	680	0.32	2.6
6/19/92	75	8.5	760	0.35	1.8
6/26/92	72	8.3	790	0.36	2.1
7/3/92	72	8.3	780	0.32	1.9
7/10/92	74	7.8	815	0.33	1.6
7/17/92	76	7.8	825	0.35	1.6
7/24/92	72	8.5	799	0.32	1.7
7/30/92	74	8.1	805	0.31	1.4
8/7/92	76	8.5	838	0.35	1.5
8/14/92	75	8.1	802	0.33	1.1
8/23/92	83	8.4	910	0.37	1.3

Table-C1 CCID Main at Russel Avenue (MER510) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/28/92	76	8.3	900	0.39	1.1
9/4/92	68	7.9	1120	0.56	2.2
9/11/92	72	7.8	1000	0.54	1.8
9/18/92	70	8.0	1020	0.53	1.9
9/25/92	70	8.0	870	0.40	0.8
10/2/92	68	7.6	845	0.42	0.7
10/9/92	72	7.5	830	0.34	0.8
10/16/92	66	7.8	830	0.34	0.6
10/23/92	65	8.7	820	0.35	1.0
10/30/92	65	8.4	950	0.47	1.3
11/6/92	60	8.3	915	0.47	1.8
11/30/92	53	8.3	840	0.36	1.1
1/28/93	48*	8.5*	3370*	5.7*	4.2*
2/25/93	53	8.5	820	0.67	3.3
3/26/93	59	7.8	1190	0.70	3.2
4/30/93	68	8.4	521	0.27	1.3
5/28/93	65	8.5	99	0.06	<0.4
6/25/93	72	7.4	682	0.42	1.4
7/30/93	72	7.9	355	0.24	0.8
8/13/93	74	8.0	566	0.35	1.5
8/26/93	76	7.8	464	0.30	1.4
9/17/93	69	7.9	337	0.19	1.5
9/23/93	70	8.0	383	0.22	1.6
10/1/93	71	7.5	580	0.33	1.6
10/8/93	67	8.2	420	0.21	1.3
10/15/93	66	8.2	400	0.21	1.1
10/21/93	69	7.8	390	0.20	1.4
10/28/93	64	7.7	440	0.27	0.4
11/28/93	54	8.3	700	0.39	2.2
12/28/93	46	8.3	600	0.42	1.9
1/28/94	48	8.1	650	0.35	1.9
2/25/94	53	8.0	720	0.41	3.8
4/1/94	60	8.2	940	0.44	2.5
4/27/94	59	8.5	810	0.51	1.7
5/25/94	65	8.3	920	0.55	1.9
6/29/94	72	8.1	690	0.39	2.5
7/27/94	77	8.7	750	0.40	1.7
8/31/94	77	8.2	630	0.22	0.9
9/29/94	70	8.2	720	0.20	0.8
10/27/94	61	8.5	624	0.23	1.3
11/22/94	47		675	0.27	1.3
12/29/94	49	8.5	1610	1.4	2.2
1/26/95	53	8.6	810	0.46	3.8
2/23/95	58	8.5	301		
3/29/95	65	8.3	161		
4/13/95	61	8.4	975		
4/28/95	63	8.5	82	0.03	0.6
5/26/95	62	8.0	69		
6/28/95	76	8.5	227		
7/27/95	87	8.3	173	0.12	1.5
8/31/95	76	8.3	520		
9/28/95	69	8.3	288		
Count	182	204	221	216	214
Min	36	6.4	50	0.02	<0.4
Max	87	9.4	4280	5.8	76
Mean	67	8.2	719	0.45	2.2
Geo Mean	66	8.2	589	0.31	1.6
Median	69	8.2	700	0.30	1.6

* Ponding occurred, data is not included in summary calculations

Table-C2 CCID Main @ Almond Drive (MER511)

Location: Latitude 36° 59' 60" Longitude 120° 49' 02". In NW 1/4, NW 1/4, NW 1/4, Sec. 7. T.11S, R11E. Located 1.5 mi. south of Almond Drive, and 1 mi. east of CCID Main Canal

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/15/85			780	0.62	6
8/28/85		8.0	480	0.39	<1
9/28/85			690	0.35	1
10/31/85		8.5	620	0.34	1
12/7/85		7.6	640	0.38	1
1/4/86		7.6	720	0.45	1
2/1/86		8.2	910	0.30	1
2/16/86		8.2	710	0.49	1
3/2/86		6.8	300	0.19	2
4/2/86					<1
4/27/86		5.4	87	0.04	<1
6/4/86		5.8	480	0.51	7.3
6/26/86		8.2	620	0.41	4.1
8/5/86		8.7	460	0.30	1.2
9/2/86			390	0.20	1.4
9/28/86		6.0	410	0.41	1.8
11/3/86				0.22	1.7
1/3/87		8.3	550	0.33	1.9
Count		13	16	17	18
Min		5.4	87	0.04	1.0
Max		8.7	910	0.62	7.3
Mean		7.5	553	0.35	1.9
Geo Mean		7.4	499	0.31	1.2
Median		8.0	585	0.35	1.1

Table-C3 CCID Main @ Gun Club Road (MER512)

Location: Latitude 37° 13' 54" Longitude 121° 00' 21". In SW 1/4, SE 1/4, SW 1/4, Sec.17. T.8S, R9E. Located 1.2 mi. south of Gustine on Gun Club Road.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/14/85			780	0.63	4
8/29/85		8.1	190	0.62	4
9/27/85			710		3
10/30/85		8.6	810	0.71	5
12/7/85		9.3	860	0.60	2
1/4/86		8.6	1060	0.67	1
2/16/86		8.1	510	0.19	<1
3/1/86		8.4	780	0.49	2
4/2/86					<1
4/26/86		7.8	180	0.11	<1
6/3/86		7.8	310	0.36	3.1
6/26/86		8.1	680	0.58	5.2
8/4/86		8.0	380	0.15	0.9
9/2/86			360	0.18	0.7
9/27/86		8.0	410	0.21	0.9
11/4/86				0.22	1.0
12/4/86		7.9		0.29	1.7
1/2/87		8.3	450	0.22	1.1
Count		13	15	16	18
Min		7.8	180	0.11	0.7
Max		9.3	1060	0.71	5.2
Mean		8.2	565	0.39	2.0
Geo Mean		8.2	499	0.33	1.4
Median		8.1	510	0.33	1.4

Table-C4 Santa Fe Canal @ Hwy 152-(MER540)
Location: Latitude 37° 03' 22" Longitude 120° 47' 11". In SW 1/4, SW 1/4, SE 1/4, Sec.17. T.10S, R11E. Located 2.6 mi. east of Los Banos on northside of Highway 152.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85		8.2	2800	4.2	31
6/3/85			2000	3.0	17
7/2/85		7.9	2200	3.4	27
8/15/85			2000	2.4	17
8/28/85		7.8	1800	2.9	21
9/28/85			1080	1.0	4
10/31/85		8.3	1880	2.6	14
12/7/85		8.0	3200	4.8	27
1/4/86		8.4	4000	7.0	30
1/14/86		8.0	3200	6.0	18
3/2/86		8.4	2800	4.7	31
4/2/86					33
4/19/86			2600	4.1	34
4/27/86		8.2	2700	4.6	36
5/13/86			2000	2.6	27
6/4/86		7.8	2200	3.6	24
6/17/86			2300	3.3	29
6/26/86		8.0	2200	3.4	28
8/5/86		7.8	2000	3.2	25
9/2/86			2000	2.8	23
9/27/86		6.8	1100	1.6	11
11/3/86				2.0	19
12/4/86		8.0		3.4	39
1/3/87		8.3	3000	4.4	36
Count		15	21	23	24
Min		6.8	1080	1.0	4
Max		8.4	4000	7.0	39
Mean		8.0	2336	3.5	25
Geo Mean		8.0	2233	3.3	23
Median		8.0	2200	3.4	27

Table-C5 Santa Fe Canal at Henry Miller Road (MER519)

Location: Latitude 37°05'59", Longitude 120°49'44". In NE 1/4, NE 1/4, Sec. 1, T.10S., R.10E. 0.3 miles east of Lander Avenue. 3.0 miles north of Gustine.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/2/85			2000	2.4	27
8/15/85			1800	2.5	14
8/29/85			1800	2.8	17
9/28/85			840	0.58	3
10/31/85			1930	2.8	11
12/7/85			3100	4.8	26
1/4/86			3600	5.5	36
1/14/86			3200	5.1	22
3/2/86		8.3	2800	4.0	27
4/26/86		7.8	2600	4.4	35
6/3/86			2200	3.9	29
6/26/86			2400	3.1	24
8/5/86			2000	2.9	25
9/2/86			1700	2.2	17
9/27/86			560	0.77	2.2
11/3/86				0.46	2.5
12/4/86		8.0		3.3	37
1/2/87			2700	3.8	30
10/9/92	72	7.5	870	0.38	1.0
10/30/92	63	8.2	915	0.55	0.9
11/13/92	48	8.5	1430	1.5	2.2
11/30/92	54	8.2	880	0.39	1.1
12/4/92	50	8.4	900	0.49	1.5
12/14/92	48	8.8	1080	0.84	3.8
12/22/92	45	8.3	2740	3.8	29
12/30/92	50		950	1.2	7.4
1/8/93	54	7.9	1350	1.7	9.1
1/15/93			1950	2.8	17
1/22/93	55	8.3	1910	2.7	11
1/28/93	50	8.5	3350	4.8	38
2/4/93	54	7.6	1870	2.5	12
2/10/93	59		1320	1.8	11
2/19/93	56	7.5	2040	2.7	14
2/24/93	64	8.5	2600	3.6	26
3/5/93	62	7.6	2590	3.1	25
3/12/93	64	7.7	3930	5.0	44
3/18/93	61	8.0	2000	2.2	6.6
3/26/93	60	7.7	1100	0.85	3.6
4/2/93	65	7.8	1020	0.70	3.5
4/9/93	64	8.3	3030	3.3	28
4/16/93	58	8.8	795	0.80	1.9
4/23/93			910	1.1	3.9
4/30/93	68	8.3	1970	2.1	10
5/7/93	64	7.8	1560	1.5	6.4
5/14/93	61	8.2	960	0.76	3.0
5/21/93	72	8.1	910	0.65	2.5
5/28/93	67	7.9	2500	4.0	26
6/4/93	70	8.5	564	0.65	1.4
6/11/93	62	8.4	986	0.99	4.3
6/25/93	78	8.0	1860	2.3	6.1
7/2/93	Site Dry				
8/20/93	65	8.0	637	1.0	1.9
8/27/93	78	6.5	657	1.0	2.1
9/17/93	63	8.0	652		3.7
9/24/93	66	7.6	450		1.4
10/1/93	73	8.0	450	0.29	1.4
10/8/93	68	8.6	500	0.33	1.6
10/15/93	68	8.1	1560	0.32	0.8

Table-C5 Santa Fe Canal at Henry Miller Road (MER519) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/21/93	70	8.4	410	0.22	0.7
10/29/93	68	7.0	590	0.30	0.3
11/5/93	58	7.8	500	0.28	0.7
11/12/93	58	8.0	600	0.31	0.9
11/22/93	54	8.0	530	0.25	0.9
11/30/93	53	8.0	650	0.38	1.0
12/3/93	49	8.1	690	0.45	1.0
12/10/93	54	8.1	600	0.38	1.3
12/17/93		7.8	770	0.49	1.5
12/28/93	48	8.1	720	0.46	1.5
1/7/94	44	8.5	790	0.53	1.9
1/14/94	48	8.4	840	0.91	1.9
1/21/94	48	8.4	710	0.38	1.3
1/28/94	51	6.6	2440	3.2	23
2/3/94	50	8.1	3380	4.9	35
2/11/94	51	8.1	1010	1.1	3.0
2/25/94	56	8.3	1460	1.7	2.1
3/4/94	61	7.9	4090	5.1	59
3/9/94	60	8.1	4000	5.3	60
3/23/94	51	8.7	1290	1.1	3.8
4/1/94	63	8.7	1300	1.3	3.3
4/6/94		8.1	1230	1.1	3.4
4/15/94	64	8.1	1370	1.3	2.6
4/21/94	70	8.4	1270	1.3	2.9
4/27/94	60	8.5	1160	1.1	2.5
5/4/94	68	7.9	1330	1.1	2.3
6/1/94	70	8.2	1370	1.2	3.4
6/8/94	64	8.0	920	0.74	2.8
6/15/94	62	8.2	1130	0.80	3.0
6/21/94	71	8.4	880	0.53	3.2
6/29/94	78	8.0	920	0.70	2.2
7/6/94	69	8.6	1060	0.76	3.2
7/13/94	74	8.3	1350	1.2	3.0
7/27/94	Site Dry				
8/3/94	Site Dry				
8/10/94	Site Dry				
8/24/94	74	7.7	840	0.55	1.8
8/31/94	Site Dry				
9/14/94	74	8.2	720	0.30	1.6
9/22/94	75	8.0	670	0.30	1.1
9/29/94	74	8.2	800	0.33	1.6
10/7/94	68	8.3	746	0.31	1.3
10/12/94	61	8.4	792	0.33	1.3
10/20/94	64	8.1	571	0.21	0.8
10/27/94	62	7.2	677	0.23	0.8
11/22/94	49		798	0.35	1.7
12/29/94	50	8.3	2190	2.2	4.7
3/29/95	71	8.0	3880	5.4	
4/13/95	66	8.5	2300	0.19	0.8
4/28/95	68	9.3	557	0.69	2.9
5/25/95	70	7.4	318	0.25	0.8
6/28/95	72	8.1	747	0.66	2.9
7/27/95	88	8.3	590	0.49	1.8
8/31/95	78	8.4	637	0.44	2.0
9/28/95	69	8.1	369		
Count	86	88	106	105	106
Min	44	6.5	318	0.19	<0.4
Max	88	9.3	4090	5.5	60
Mean	62	8.1	1440	1.7	10
Geo Mean	62	8.1	1190	1.1	4.2
Median	63	8.1	1070	1.0	3.0

Table-C6 Santa Fe Canal @ Gun Club Road-(MER517)
Location: Latitude 37° 13' 53" Longitude 120° 54' 16". In NE 1/4, NE 1/4, NE 1/4, Sec.19. T.8S, R9E. Located 4.9 mi. east of Gustine on Gun Club Road to the Santa Fe Canal.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/13/85		7.6	2800	4.0	35
7/2/85		8.1	2100	2.0	24
8/14/85			1900	3.0	12
8/29/85		8.2	1700	2.0	12
9/28/85			710		<1
10/30/85		8.9	1210	3.0	5
12/7/85		8.4	1660	2.0	2
1/4/86		8.8	2400	3.0	4
1/14/86			2800	2.0	11
2/16/86		8.1	2700	4.0	27
3/2/86		8.4	860	1.0	2
4/2/86					4
4/26/86		8.2	2400	4.0	27
6/3/86		8.0	2400	4.0	30
6/26/86		8.0	2300	3.0	23
8/4/86		8.5	2000	3.0	21
9/2/86			1700	2.0	9.9
9/27/86		8.1	580	1.0	1.2
11/4/86				1.0	1.2
12/4/86		8.0		1.0	1.2
1/2/87		8.8	1800	2.0	1.1
Count		15	18	19	21
Min		7.6	580	1.0	1.1
Max		8.9	2800	40	35
Mean		8.3	1890	4.4	12
Geo Mean		8.3	1733	2.5	6.0
Median		8.2	1950	2.0	9.9

Table-C7 San Luis Canal at Henry Miller Road (MER532)
Location: Latitude 37 06' 00" Longitude 120 49' 13". In SE 1/4, SW 1/4, SE 1/4, Section 36, T10s, R10E. The site is 3 miles northeast of Los Banos at the Los Banos Wildlife Refuge.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/2/92	68	7.7	1060	0.78	3.2
10/9/92	72	7.6	910	0.49	1.7
10/16/92	65	8.0	910	0.41	1.5
10/23/92	64	8.2	1010	0.67	2.0
11/6/92	60	8.2	3390	5.6	37
11/13/92	53	8.3	3850	5.9	39
11/30/92	52	8.2	1210	0.95	3.3
12/4/92	49	8.3	2580	1.6	11
12/14/92	48	8.2	3690	5.5	41
12/22/92	47	8.1	4540	7.4	67
12/30/92	50		4600	7.0	74
1/8/93	54	7.7	4090	6.8	54
1/15/93			3250	5.3	41
1/22/93	55	8.2	2920	4.6	17
1/28/93	49	8.5	3750	5.4	47
2/4/93	53	7.5	4160	6.7	29
2/10/93	56		3130	4.8	36
2/19/93	56	6.7	3940	5.6	43
2/24/93	59	8.0	4050	7.1	50
3/5/93	61	7.6	3940	5.3	50
3/12/93	66	7.3	4390	6.0	55
3/18/93	64	8.1	4250	5.6	58
3/26/93	58	7.6	3120	5.4	33
4/2/93	63	7.9	3530	4.8	37
4/9/93	66	8.2	4850	6.3	67
4/16/93	62	8.3	3170	4.6	12
4/23/93	62	8.5	925	1.3	11
4/30/93	70	8.1	4360	5.8	69
5/7/93	65	8.1	4170	5.9	71
5/14/93	66	8.1	1010	0.73	3.0
5/21/93	69	8.0	1400	1.3	9.3
5/28/93	68	7.9	2740	4.1	30
6/4/93	70	8.3	1690	2.5	17
6/11/93	68	9.4	930	0.99	5.5
6/18/93	74	8.2	985	0.85	4.6
6/25/93	76	8.4	965	0.89	3.6
7/2/93	76	7.7	831		5.3
7/9/93	75	8.1	928	0.89	5.7
7/16/93	65	8.8	918	0.96	7.5
7/23/93	76	8.4	1130	1.1	5.7
7/30/93	74	8.0	725	0.70	3.2
8/6/93	76	8.0	886	1.0	3.9
8/13/93	70	7.9	671	0.52	1.5
8/20/93	70	8.2	568	<0.02	1.2
8/27/93	76	7.4	578	<0.02	1.4
9/3/93	79	8.0	1040	1.0	12
9/10/93	76	7.8	617	1.0	4.2
9/17/93	69	8.2	574	<0.02	3.3
9/24/93	66	7.7	544	<0.02	1.7
10/1/93	75	8.0	547	0.35	2.6
10/8/93	68	8.2	630	0.51	1.7
10/15/93	66	8.3	488	2.1	4.0
10/21/93	69	8.2	484	0.34	1.3
10/29/93	62	7.6	554	0.36	0.7
11/5/93	59	7.9	507	0.35	1.2

Table-C7 San Luis Canal at Henry Miller Road (MER532) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
11/12/93	58	8.1	675	0.41	1.7
11/22/93	52	8.0	621	0.40	1.7
11/30/93	55	8.0	761	0.49	1.8
12/3/93	51	8.0	802	0.59	1.8
12/17/93		7.8	2080	2.7	15
12/28/93	47	8.1	735	0.52	2.0
1/7/94	46	8.3	824	0.58	2.5
1/14/94	49	8.4	792	0.77	1.2
1/21/94	50	8.6	1190	1.1	8.2
1/28/94	50	7.2	2610	3.4	24
2/3/94	55	8.5	1930	2.3	12
2/11/94	52	8.0	3040	4.4	34
2/17/94	52	8.0	2700	3.5	25
2/25/94	57	7.9	3560	4.8	45
3/4/94	62	7.9	4010	4.9	57
3/9/94	58	8.2	2810	3.3	34
3/16/94	62	7.8	1220	0.85	3.9
3/23/94	55	7.9	1380	1.1	5.5
4/1/94	63	7.8	1110	1.0	3.1
4/6/94		7.9	1100	0.84	3.1
4/15/94	67	8.1	1130	1.0	3.2
4/21/94	69	7.9	1220	1.1	2.8
4/27/94	60	8.3	1160	0.96	2.5
5/4/94	69	7.9	1170	0.88	2.6
5/10/94	77	7.8	1060	0.91	2.3
5/16/94	63	8.0	832	0.58	2.2
5/25/94	72	7.6	1150	0.94	3.1
6/1/94	71	8.1	942	0.70	2.9
6/8/94	64	8.4	914	0.67	1.7
6/15/94	65	8.0	1010	0.93	1.7
6/21/94	70	8.2	892	0.55	3.1
6/29/94	78	7.9	934	0.78	2.1
7/6/94	71	8.1	946	0.73	2.2
7/13/94	78	8.2	1010	0.82	2.5
7/21/94	73	8.3	950	0.67	3.0
7/27/94	78	8.1	1030	0.77	3.0
8/3/94	72	8.0	1320	1.2	3.0
8/10/94	73	7.8	1030	0.86	1.7
8/16/94	76	8.0	1020	0.81	2.0
8/31/94	73	7.5	789	0.42	1.6
9/7/94	72	8.6	901	0.48	1.6
9/14/94	73	8.1	722	0.30	1.8
9/22/94	73	8.1	806	0.40	3.6
9/29/94	74	8.1	864	0.42	2.3
10/7/94	68	8.2	773	0.28	1.7
10/12/94	61	8.4	751	0.30	1.5
10/20/94	64	8.1	619	3.4	1.7
10/27/94	62	7.6	704	0.27	1.3
11/22/94	49	8.4	801	0.39	2.1
12/29/94	50	8.9	926	0.49	5.4
1/26/95	56	7.8	2070	2.6	16
2/23/95	60	7.8	4040	6.1	57
3/29/95	67	8.0	4320	6.1	61
4/13/95	66	8.0	2280	0.19	0.8
4/28/95	67	7.8	503	0.50	2.2
5/25/95	68	7.4	330	0.27	0.9
6/28/95	72	8.1	657	0.57	2.4
7/27/95	81	8.2	555	0.47	2.4

Table-C7 San Luis Canal at Henry Miller Road (MER532) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/31/95	78	8.3	600	0.36	2.2
9/28/95	69	7.9	386	0.24	1.8
Count	112	112	115	114	115
Min	46	6.7	330	0.19	0.7
Max	81	9.4	4850	7.4	74
Mean	64	8.0	1690	2.1	15
Geo Mean	64	8.0	1290	1.0	5.8
Median	66	8.0	1010	0.90	3.2

Table-C8 San Luis Canal at Highway 152 (MER527)

Location: Latitude 37°03'27", Longitude 120°48'11". In SE 1/4, SW 1/4, SE 1/4, Sec. 18, T.10S., R.11E. North side of Highway 152, 2.5 miles east of Los Banos.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85		8.1	2000	1.8	6
6/3/85			1800	2.3	4
7/2/85		7.8	880	0.58	4
8/15/85			1800	1.3	5
8/28/85		7.9	1300	1.6	5
9/28/85			820	0.51	2
10/31/85		8.4	900	0.78	2
12/7/85		8.2	3100	4.7	2
1/4/86		8.4	2800	4.1	2
3/2/86		8.3	2300	3.5	2
4/2/86					<1
4/19/86			2400	3.8	1
4/27/86		8.1	1200	1.4	1
5/13/86			290	0.37	<1
6/4/86		7.9	760	1.1	5.9
6/17/86			1100	0.94	4.3
6/26/86		8.0	1700	2.0	2.8
8/5/86		9.2	1500	2.1	2.4
9/2/86			700	0.59	1.5
9/27/86		7.8	490	0.63	2.2
11/3/86				0.25	1.4
12/4/86		7.9		2.6	2.6
1/3/87		8.3	1100	5.4	3.2
1/30/87		8.0	3800	7.0	
2/27/87		8.0	2630	3.8	5.0
4/1/87		7.9	3380	6.3	4.6
5/1/87		8.4	8510	0.86	3.3
6/1/87		8.0	2640	3.9	4.0
7/1/87			1600	2.5	9.3
7/31/87		7.7	2100	2.5	4.8
9/1/87			2370	3.4	4.0
10/1/87	70	8.0	959	0.50	1.3
11/3/87	63	8.7	2950	3.6	3.0
12/1/87	59	7.8	2820	3.9	7.9
1/5/88	52	7.9	4050	5.4	3.9
1/27/88	52	8.3	950	0.60	2.3
3/9/88	60		1900	2.3	3.4
3/30/88	62	8.2	2550	3.8	4.1
5/5/88	59	7.9	1150	1.0	7.2
6/1/88	76	8.1	2750	4.0	3.9
6/29/88	70	8.0	2550	3.5	3.9
8/1/88	79	7.9	1900	2.1	3.0
9/1/88	82		3020	3.9	4.3
10/4/88	69		880	0.37	2.3
11/1/88	68	7.8	2470	2.9	3.2
1/11/89	50		1210	0.93	2.7
2/7/89	44	8.1	850	0.37	1.3
3/1/89	57	8.0	1930	2.0	3.3
3/29/89	75	7.7	1400	1.6	3.1
5/1/89	71	7.7	630	0.58	1.8
5/30/89	74	8.0	620	0.51	1.5
7/5/89	77	7.5	1730	1.9	2.7
8/1/89	70	8.4	1380	1.5	2.6
9/1/89	72	8.4	590	0.35	1.3
9/29/89	66	7.9	650	0.32	1.2

Table-C8 San Luis Canal at Highway 152 (MER527) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/30/89	64	8.6	670	0.38	0.7
11/30/89	50	8.1	910	0.55	1.5
12/29/89	46	7.8	1370	1.8	2.0
1/19/90	44	8.1	1430	1.5	2.5
2/2/90	47	8.3	950	0.56	3.4
3/30/90	56	8.1	820	0.56	2.4
4/12/90	62	7.7	2350	2.7	2.7
4/27/90	66	7.9	2460	3.1	2.7
5/31/90	75	8.1	3280	4.5	3.9
6/28/90	70	8.9	1990	2.5	2.7
7/27/90	84	7.9	1860	2.2	2.2
8/30/90	79	8.5	2020	2.6	2.7
9/28/90	69	8.0	620	0.34	1.4
10/26/90	64	8.1	700	0.26	0.9
11/27/90	46	8.2	2440	2.8	4.7
12/28/90	35	8.2	3220	3.9	5.0
1/25/91	49	7.9	2630	3.6	3.7
2/22/91	57	9.0	2640	3.0	4.3
3/28/91	60	7.8	2940	3.2	4.1
4/25/91	68	7.6	1630	2.0	2.7
5/9/91	60	7.7	1470	1.6	2.5
5/11/91	60	7.7	910	0.60	1.9
5/14/91	56	8.1	2430	2.5	3.8
5/16/91	64	8.1	2470	2.7	2.6
5/19/91	56	8.2	2780	3.1	3.6
5/21/91	62	7.9	2600	3.0	3.9
5/23/91	78	8.0	2490	2.8	3.3
5/25/91	70	7.8	2450	2.9	2.9
5/28/91	64	7.6	1870	1.6	3.8
5/30/91	68	8.7	1930	2.3	2.7
6/3/91	76	7.7	1450	0.70	3.3
6/5/91	66	6.9	980	0.40	1.9
6/7/91	68	8.0	1050	0.70	2.3
6/10/91	74	7.7	1010	0.60	1.7
6/12/91	78	7.9	1160	0.80	1.8
6/14/91	74	7.8	2320	2.3	4.1
6/17/91	72	7.7	1710	1.5	3.0
6/19/91	74	7.9	2050	1.9	3.4
6/21/91	62	7.8	1720	1.6	2.6
6/24/91	60	6.7	1710	1.6	2.4
6/26/91	70	8.3	2150	2.0	3.7
6/28/91	68	7.9	1900	1.8	2.7
7/1/91	82	8.3	2170	2.0	2.4
7/3/91	80	7.8	4070	6.2	45
7/5/91	82	7.9	2460	2.0	3.1
7/8/91	74	6.6	4240	6.6	41
7/10/91	78	7.8	2390	2.4	2.8
7/12/91	68	6.9	1910	1.6	2.2
7/15/91	72	7.8	1170	1.2	2.7
7/17/91	68	6.9	1730	1.8	2.6
7/19/91	72	8.5	1550	1.5	2.7
7/22/91	84	7.5	1650	1.6	2.9
7/24/91	72		1320	1.2	2.2
7/26/91	82		1270	1.2	3.2
7/29/91	74		1830	1.7	2.7
7/31/91	72		1300	0.90	2.4
8/2/91	69	8.4	1110	0.90	2.2
8/5/91	74	8.2	1570	1.3	2.7

Table-C8 San Luis Canal at Highway 152 (MER527) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/7/91	80	7.6	1300	1.0	1.6
8/9/91	78	9.2	1280	1.1	2,3
8/12/91	72	8.0	1580	1.3	2.8
8/14/91	81	7.8	1180	0.90	1.9
8/16/91	71		1140	1.1	1.6
8/19/91	71	8.7	1120	0.90	1.7
8/21/91	81		1640	1.0	1.7
8/23/91	68		1280	1.0	1.8
8/26/91	66	7.6	1470	1.2	2.1
8/28/91	77	8.2	840	0.70	2.6
8/30/91	73	8.0	720	0.70	2.5
9/14/91	72	7.8	1260	1.3	1.4
9/17/91	78	8.4	790	0.50	1.3
9/21/91	78	8.4	790	0.50	1.3
9/23/91	80	8.6	680	0.30	1.1
9/27/91	76	8.2	730	0.30	1.0
9/30/91	77	8.2	670	0.30	1.0
10/4/91	80	8.4	740	0.25	1.4
10/7/91	72	8.0	700	0.27	1.0
10/11/91	70	7.3	700	0.28	1.2
10/18/91	71	8.1	640	0.26	1.0
10/25/91		8.3	570	0.32	0.6
11/25/91	54	7.6	860	0.45	0.9
12/26/91	45	8.9	1040	0.55	1.8
1/31/92		8.2	2910	4.0	3.5
2/28/92	64	8.1	980	0.52	3.6
3/30/92	61	8.1	2680	3.3	3.6
4/30/92	72	8.3	7790	14	1.2
5/29/92	72	8.1	1730	2.1	2.5
6/26/92	76	7.8	1740	1.6	2.0
7/30/92	81	8.2	1470	1.3	2.7
8/28/92	76	8.0	1820	1.7	1.7
9/25/92	70	8.4	1020	0.64	1.6
10/30/92	65	8.3	895	0.53	1.5
11/30/92	52	8.5	860	0.38	1.4
1/28/93	49	8.4	2740	3.9	2.5
2/24/93	53	8.0	2950	3.9	2.5
3/26/93	68	7.9	940	0.61	2.6
4/30/93	69	8.0	5300	7.4	0.9
5/28/93	65	8.0	1460	1.5	2.9
6/25/93	74	8.0	792	0.53	2.7
7/30/93	74	8.2	632	0.47	2.2
8/13/93	71	8.3	634	0.50	1.9
8/26/93	79	8.5	485		1.1
9/23/93	70	8.1	506	0.35	1.3
10/28/93	63	8.4	526	0.34	0.6
11/28/93	55	8.9	772	0.46	1.6
12/28/93	48	7.7	690	0.45	1.5
1/28/94	48	8.2	1910	2.2	3.3
2/25/94	58	8.0	1960	2.2	5.5
4/1/94	62	7.9	990	0.77	2.7
4/27/94	63	8.5	1080	0.85	1.7
5/25/94	72	8.3	1020	0.65	1.7
6/29/94	78	8.2	848	0.60	2.2
7/27/94	79	8.6	878	0.58	1.4
8/31/94	73	7.9	3550	5.0	51
9/29/94	74	8.5	793	0.34	1.4
10/27/94	62	6.9	679	0.24	0.8

Table-C8 San Luis Canal at Highway 152 (MER527) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
11/22/94			700	0.29	1.8
12/29/94	50	8.5	809	0.35	3.9
1/26/95	52	7.9	1070	1.1	1.1
2/23/95	60	8.0	1830	1.7	10
Count	141	152	172	172	174
Min	35	6.6	290	0.24	0.6
Max	84	9.2	8510	14	51
Mean	67	8.0	1690	1.9	3.4
Geo Mean	66	8.0	1420	1.3	2.4
Median	70	8.0	1460	1.5	2.6

Table-C9 Los Banos Creek @ Gun Club Road (MER514)
Location: Latitude 37° 13' 56" Longitude 120° 56' 30". In SW 1/4, SE 1/4, SE 1/4, Sec.14. T.8S, R9E. Located 1.2 mi. south of Gustine and 2.8 miles east of HWY 33 on Gun Club Road

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/2/85		8.4	1200	1.1	2
8/14/85			2200	2.0	3
8/29/85		8.8	1800	1.8	3
9/27/85			750	0.80	2
10/30/85		8.2	770	0.51	1
12/7/85		8.2	2100	2.2	1
1/4/86		8.8	3000	3.2	1
1/14/86			2700	2.3	1
2/16/86		8.2	1050	0.70	1
3/1/86		8.0	1800	2.1	1
4/2/86					<1
4/26/86		8.2	1200	1.2	<1
6/3/86		8.5	1300	1.5	1.7
6/26/86		8.8	1500	1.3	3.8
8/4/86		8.8	740	0.48	1.1
9/2/86			450	0.28	0.7
9/27/86		8.0	470	0.29	1.0
11/4/86				0.67	0.9
12/4/86		7.8		0.53	1.1
1/2/87		8.2	1750	1.6	0.9
Count		14.0	17	19	20
Min		7.8	450	0.28	0.7
Max		8.8	3000	3.2	3.8
Mean		8.4	1458	1.3	1.4
Geo Mean		8.3	1268	1.0	1.1
Median		8.2	1300	1.2	1.0

Table-C10 Eagle Ditch @ Gun Glub Road (MER518)

Location: Latitude 37° 13' 54" Longitude 120° 55' 55". In SE 1/4, SE 1/4, SW 1/4, Sec.13. T.8S, R9E. Located 3.3 mi. south of Gustine on Gun Club Road.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/2/85		8.2	2100	2.6	19
8/14/85			1900	2.5	13
8/29/85		8.2	1800	2.4	12
9/27/85			760	0.66	1
10/30/85		8.9	1230	1.1	5
12/7/85		8.1	1480	1.5	2
1/4/86		8.6	1900	1.7	1
1/14/86			2000	1.7	1
2/16/86		8.3	2100	1.9	1
3/2/86		8.4	1900	2.3	2
4/2/86					3
4/26/86		9.0	2900	3.6	2
6/3/86		8.0	1600	2.1	1.7
9/27/86		7.9	460	0.30	1.0
11/4/86				0.73	1.7
12/4/86		7.7		0.66	1.1
1/2/87		8.1	1200	1.2	0.8
Count		12	14	16	17
Min		7.7	460	0.30	0.8
Max		9.0	2900	3.6	19
Mean		8.3	1666	1.7	4.0
Geo Mean		8.3	1530	1.4	2.2
Median		8.2	1850	1.7	1.7

Table-C11 Mud Slough @ Gun Club Road (MER516)
Location: Latitude 37° 13' 53" Longitude 120° 53' 54". In NE 1/4, NW 1/4, NW 1/4, Sec.20. T.8S, R10E. Located 5.4 mi. east of Gustine on Gun Club Road.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/2/85		8.8	2800	3.9	22
8/14/85			4900	7.0	8
8/29/85		8.6	2000	2.8	12
9/28/85			2800		5
10/30/85		8.1	1440	1.1	2
12/7/85		8.4	2800	2.4	2
1/4/86		8.8	3500	3.2	2
1/14/86			3000	3.2	3
2/16/86		8.2	3200	3.9	2
3/2/86		8.1	1900	2.2	2
4/2/86					<1
4/26/86		8.7	2800	3.4	2
6/3/86		9.0	5000	6.0	5.2
6/26/86		8.9	2900	4.3	15
8/4/86		9.5	5100	7.0	11
11/4/86				1.2	1.7
12/4/86		7.8		3.5	1.5
1/2/87		8.1	3000	2.5	1.6
Count		13	15	16	18
Min		7.8	1440	1.1	1.5
Max		9.5	5100	7.0	22
Mean		8.5	3143	3.6	5.5
Geo Mean		8.5	2969	3.2	3.3
Median		8.6	2900	3.3	2.0

Table-C12 Freemont Canal @ Gun Club Road (MER515)
Location: Latitude 37° 13' 54" Longitude 120° 52' 55". In SE 1/4, SW 1/4, SE 1/4, Sec.15. T.8S, R10E. Located 5.7 mi. east of Gustine on Gun Club Road,

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/2/85		8.2	2300	3.2	28
8/14/85			2000	2.2	15
8/29/85		8.1	1700	2.6	15
9/28/85			920	2.0	4
10/30/85		8.9	3200	2.8	7
12/7/85		8.5	3100	4.1	16
1/4/86		8.7	4500	6.7	26
1/14/86			3300	5.9	28
2/16/86		8.3	2000	1.0	6
3/1/86		8.4	3200	4.4	33
4/2/86					10
4/26/86		8.8	3100	4.5	10
6/3/86		8.8	2100	3.5	32
6/15/86			1840	1.8	11
6/26/86		8.1	2600	3.6	27
8/4/86		8.4	2700	4.1	24
9/2/86			2550	3.8	28
9/27/86		8.2	1600	2.2	16
11/4/86				1.0	6.9
12/4/86		8.0		1.5	4.4
1/2/87		8.6	2700	3.8	31
Count		14	18	20	21
Min		8.0	920	1.0	4.0
Max		8.9	4500	6.7	33
Mean		8.4	2523	3.2	18
Geo Mean		8.4	2386	2.9	15
Median		8.4	2575	3.4	16

Table-C13 Gustine Sewage Treatment Plant (MER553)
Location: Latitude 37° 15' 37" Longitude 120° 57' 11". In SE 1/4, SW 1/4, SW 1/4, Sec.2. T.8S, R9E. Located .8 mi. south of Highway 140.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
12/18/85		8.6	2800	0.78	2
1/9/86		7.7	2700	1.0	
2/1/86		7.8	3600	1.9	
2/7/86		7.8	4000	1.5	1
2/16/86		8.0	3400	1.9	1
3/2/86		8.0	3700	1.7	1
4/26/86		8.0	3000	1.0	
6/3/86		8.3	2600	1.3	1.3
6/26/86		8.2	2500	1.0	1.8
8/4/86		8.2	2700	1.2	2.0
9/2/86			3000	1.1	0.8
9/27/86		8.5	2700	1.8	1.0
11/3/86				0.60	1.8
12/4/86		7.6		0.69	1.0
1/2/87		7.8	2600	0.89	1.4
Count		13	13	15	12
Min		7.6	2500	0.60	0.8
Max		8.6	4000	1.9	2.0
Mean		8.0	3023	1.2	1.3
Geo Mean		8.0	2989	1.2	1.3
Median		8.0	2800	1.1	1.2

Table-C14 Porter-Blake Bypass (MER548)

Location: Latitude 37°05'58.5", Longitude 120°49'14.5". In NW 1/4, Sec. 1, T.10S., R.10E.
7.5 miles east of the intersection of Henry Milller and Mercy Springs Roads. 2 miles north of Los Banos.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
1/14/86		8.6	3200	6.0	25
2/7/86		7.2	3300	5.0	35
3/2/86		9.1	3000	4.8	37
4/26/86		9.2	2700	4.4	32
6/26/86		8.1	2400	3.2	25
8/5/86		9.6	2000	3.4	27
9/2/86			2000	3.0	24
9/27/86		8.2	1100	1.5	
11/3/86				1.8	19
1/2/87		9.4	2800	3.9	29
1/30/87		8.0	2800	3.9	32
5/1/87		8.4	2740	4.0	34
6/1/87		7.9	2700	4.1	33
7/1/87			2400	4.1	23
7/31/87		7.6	2600	3.8	32
10/1/87	74	8.1	2950	4.2	44
11/3/87	62	8.6	2350	3.6	10
1/27/88	52	8.0	3850	5.0	49
5/5/88	60	8.0	3650	4.9	44
8/1/88	83	8.1	2700	3.4	28
9/1/88	90		2850	3.6	31
10/4/88	70		2000	2.0	24
11/1/88	68	8.2	1740	1.7	11
12/8/88	53		2660	3.5	26
1/11/89	44		3240	5.0	23
2/7/89	42	8.0	3100	4.0	45
3/1/89	57	8.2	3810	5.0	58
4/23/93	63	8.4	4820	6.9	88
4/30/93	68	8.0	4270	6.3	67
5/7/93	64	8.0	4020	6.4	72
5/14/93	68	7.8	3990	5.4	59
5/21/93	69	7.8	3190	4.4	40
5/28/93	68	7.8	2750	3.9	30
6/11/93	72	7.8	3800	6.4	43
6/18/93	76	7.9	4180	6.3	58
6/25/93	76	7.7	3490	5.5	51
7/2/93	78	7.4	3250	5.0	42
7/9/93	76	7.8	3910	6.1	56
7/16/93	72	7.7	3460	5.2	51
7/23/93	77	8.0	3130	4.7	43
7/30/93	74	7.6	3160	5.2	43
8/6/93	78	7.9	2860	4.0	35
8/13/93	72	7.6	3260	5.2	38
8/20/93	70	7.9	2900	5.0	37
8/27/93	76	6.7	3130		49
9/3/93	79	7.7	3470	6.0	57
9/10/93	79	7.4	3020	5.0	38
9/17/93	69	7.8	3630	5.0	49
10/21/93	71	7.8	3140	5.3	26
10/29/93	63	7.6	1680	2.4	10
11/5/93	60	7.6	2620	4.0	21
11/12/93	58	7.8	1930	2.6	12
11/22/93	52	7.8	2200	3.0	19
11/30/93	54	7.9	1960	2.5	16
12/3/93	51	7.8	2280	3.1	18
12/10/93	56	7.9	2390	3.3	20
12/17/93		7.9	2140	3.3	15
12/28/93	48	7.9	2530	3.3	26

Table-C14 Porter-Blake Bypass (MER548) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
1/7/94	44	8.1	2460	3.6	23
1/14/94	50	8.0	3160	4.8	33
1/21/94	52	8.1	3120	4.1	35
1/28/94	50	7.4	2640	3.3	24
2/3/94	50	8.2	348	5.0	36
2/11/94	52	8.0	3040	3.7	34
2/17/94	52	7.7	2790	3.4	31
2/17/94	52	7.8	2810	3.4	30
2/25/94	58	7.9	3620	4.9	47
3/4/94	62	7.8	4290	5.3	66
3/9/94	61	8.2	4060	5.3	61
3/16/94	62	7.8	4390	5.8	53
3/23/94	56	7.9	1260	1.1	3.4
4/1/94	64	8.0	3910	5.8	57
5/10/94	77	8.0	4140	5.8	72
5/10/94	77	8.1	4230	6.0	72
5/16/94	64	8.0	4630	7.1	78
5/25/94	74	8.3	2960	4.8	35
6/1/94	74	8.1	3540	5.2	56
6/8/94	65	8.0	4240	6.6	59
6/15/94	68	8.1	4150	6.5	50
6/21/94	72	8.0	3720	5.5	52
6/29/94	78	7.7	3620	5.4	52
7/6/94	71	8.1	3770	6.1	66
7/13/94	78	7.9	4090	6.0	72
7/21/94	77	8.3	3960	6.6	58
7/27/94	70	8.1	3490	5.0	49
8/3/94	74	8.1	3730	5.7	53
8/10/94	75	7.8	3540	5.4	46
8/16/94	78	7.9	3360	5.4	41
8/16/94	78	7.9	3390	5.4	40
8/24/94	74	7.6	3530	5.2	44
8/31/94		7.7	3770	5.3	49
9/7/94	72	8.3	3420	4.2	58
9/14/94	74	8.3	3030	3.6	46
9/22/94	74	7.9	3620	4.7	65
9/22/94	74	7.9	3800	5.1	63
9/29/94	73	7.9	3060	4.2	53
10/7/94	66	8.1	797	0.34	1.7
10/12/94	58	8.5	786	0.34	1.9
10/20/94	64	7.8	2560	0.26	41
10/27/94	63	7.1	2550	3.3	29
11/22/94	46		3520	4.7	40
12/29/94	50	8.1	3200	4.3	33
1/26/95	54	7.7	2150	2.7	17
2/23/95	60	7.8	4160	6.7	60
3/29/95	65	8.0	4330	6.1	60
4/13/95	65	8.0	3860		
4/28/95	67	8.0	4170	6.0	69
5/25/95	71	7.6	3380	4.7	56
6/28/95	74	7.6	3100	4.5	42
7/27/95	82	7.8	2660	4.0	40
8/31/95	78	8.0	2980	3.8	45
9/28/95	70	7.7	2570	3.6	36
Count	95	104	111	110	110
Min	42	6.7	348	0.26	1.7
Max	90	9.6	4820	7.1	88
Mean	66	8.0	3110	4.4	41
Geo Mean	65	7.9	2940	4.0	35
Median	68	7.9	3140	4.7	40

Table-C15 San Luis Spillway Ditch at Santa Fe Grade (MER537)

Location: Latitude 37°08'37.2", Longitude 120°52'22.9". In SE 1/4, SE 1/4, Sec. 16, T.9S., R.10E.
3.4 miles NW of the intersection of Mercy Springs Rd. and Santa Fe Grade. 5.5 miles north of Los Banos.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/2/92	70	7.5	795	0.29	<0.4
10/9/92	72	7.5	730	0.25	<0.4
10/16/92	65	8.3	720	0.19	<0.4
10/23/92	66	8.1	760	0.32	<0.4
10/30/92	62	8.2	980	0.54	<0.4
11/6/92	62	8.0	1110	0.66	<0.4
11/13/92	54	8.4	1260	0.76	0.8
11/30/92	50		1370	0.95	0.6
9/17/93	63	8.1	597	0.41	1.5
9/24/93	68	7.3	376	0.22	0.5
10/1/93	74	7.6	419	0.21	0.8
10/8/93	71	8.1	447	0.21	0.7
10/15/93	68	7.9	353	0.16	0.4
10/21/93	68	8.0	381	0.18	<0.4
10/29/93	63	8.0	509	0.28	0.4
11/5/93	62	7.8	571	0.31	0.6
11/30/93	55	7.9	885	0.59	0.5
12/28/93	47	8.0	820	0.52	0.7
1/28/94	52	7.8	1580	1.2	<0.4
2/25/94	56	8.1	1020	0.80	1.2
4/1/94	69	8.1	1520	1.3	0.9
4/27/94	60	8.7	1420	1.2	0.7
5/25/94	74	8.8	1110	0.90	0.8
6/29/94	84	8.3	813	0.57	0.7
7/27/94	85	8.6	839	0.50	0.5
8/31/94	75	7.2	948	0.57	0.5
9/29/94	74	7.8	761	0.30	0.6
10/27/94	63	7.7	696	0.33	0.4
11/22/94	48		907	0.45	0.7
12/29/94	50	8.2	1060	0.66	0.6
1/26/95	55	7.9	819	0.78	0.8
2/23/95	60	8.0	1170		
Count	32	30	32	31	31
Min	47	7.2	353	0.16	<0.4
Max	85	8.8	1580	1.3	1.5
Mean	64	8.0	867	0.53	0.6
Geo Mean	63	8.0	802	0.45	0.5
Median	63	8.0	820	0.50	0.6