APPENDIX D

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

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Appendix Legend

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

Table-D1 Mud Slough at Newman Gun Club (MER551)

Location: Latitude 37°18"33", Longitude 120°57'18". In NW 1/4, NW 1/4, SW 1/4, Sec. 23, T.7S., R.9E 1.7 miles NE of Santa Fe Grade, 1.2 miles north of Highway 140. 4.2 miles NE of Gustine.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/1/86		8.1	2800	3.5	11
3/2/86		7.7	1600	1.6	4
4/2/86					3
4/26/86		7.8	230	0.10	<1
6/3/86		7.8	1900	2.9	10
6/26/86		8.0	2600	3.5	22
8/4/86		6.2	1800	2.3	16
9/2/86			780	0.6	2.7
9/27/86		8.1	1800	1.3	2.3
11/3/86			1700	1.2	1.7
12/4/86		6.7	2600	1.9	1.9
1/2/87		8.0	3200	0.3	2.2
1/30/87		7.9	2900	2.5	5.1
2/27/87		8.2	3560	4.5	26
4/1/87		8.1	3310	3.9	12
5/1/87		8.7	2760	2.4	4.5
6/1/87		8.3	2450	2.7	11
7/1/87			2200	2.0	5.0
7/30/87		7.6	2100	2.0	15
9/1/87			2270	2.8	8.1
10/1/87	74	8.0	2210	2.0	3.2
11/3/87	59	8.1	1350	0.9	1.4
12/1/87	53	7.8	2700	1.9	1.6
1/5/88	49		3150	2.2	4.1
1/28/88	54		2550	2.1	1.4
3/9/88	60		3150	3.4	18
3/30/88	58	8.5	2850	2.8	4.5
5/5/88	64	8.0	4050	3.1	9.2
6/1/88	70	8.0	2250	2.7	16
6/29/88	68	8.3	2400	2.8	14
8/1/88	80	8.6	2000	1.8	8.9
9/1/88	80		2150	1.7	4.8
10/4/88	64	8.0	1830	1.1	3.6
11/1/88	66	7.7	2080	1.3	2.2
12/8/88	52		1890	1.2	1.4
1/11/89	45		2400	1.6	0.7
2/7/89	42		3150	2.2	1.5
3/1/89	56	7.8	3280	2.5	4.5
3/29/89	63	7.5	3690	2.8	5.0
5/1/89	68	7.4	2460	2.1	1.6
5/30/89	72	7.1	3040	2.2	2.4
7/5/89	86	8.7	1920	1.3	2.4
8/1/89	83	9.0	1810	1.4	2.0
9/1/89	78	8.4	2210	1.8	1.9
10/30/89	59	7.7	1030	0.61	0.6
11/30/89	51	7.0	1560	1.1	2.8
12/29/89	41	8.0	2080	1.3	0.9
1/19/90	49		2480	1.7	5.0
2/2/90	51	7.4	3070	2.2	5.7
3/30/90	70		4040	3.2	4.5
4/12/90	66	8.4	4330	2.9	2.1
4/27/90	73	8.6	3360	2.8	1.2
5/31/90	68	8.2	2860	2.4	8.1
6/28/90	74	9.6		1.7	2.5
7/27/90	80	9.2	2160	2.5	6.8

Table-D1 Mud Slough at Newman Gun Club (MER551) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/31/90	66	8.5	1850	1.6	5.3
9/14/90	74	8.8		2.3	2.5
9/21/90	63	8.1		2.5	4.3
9/28/90	69		2560	2.0	4.4
10/5/90	80	8.6	1290	0.80	4.2
10/12/90	62	8.1	1000	0.60	3.1
10/19/90	68	8.5	1130	0.70	2.9
10/26/90	68	8.5	1420	1.0	2.9
11/2/90	50	7.8	1880	1.3	2.2
11/9/90	46	8.0	2660	1.7	1.6
11/16/90	56	8.1	4180	2.9	2.0
11/27/90	48	8.5	4360	2.8	1.5
12/7/90	46	7.8	4620	3.0	1.2
12/14/90	42	7.5	5020	3.1	12
12/21/90	41	8.0	5350	3.3	1.5
12/28/90	44	8.0	3630	2.3	0.8
1/4/91	44	8.2	3490	2.2	0.7
1/10/91	54	8.2	3420	2.0	0.8
1/18/91	46	7.8	3200	1.8	0.7
1/25/91	50	8.5	4800	2.6	1.0
2/1/91	46	7.7	5000	3.4	1.1
2/8/91	51	8.1	4840	3.3	1.5
2/15/91	58	8.0	5160	3.6	1.6
2/22/91	61	7.6	5770	3.8	1.8
3/1/91	56		3600	2.4	1.5
3/8/91	58	7.6	2860	2.2	3.9
3/15/91	53	8.5	3620	3.0	6.0
3/21/91	52	7.2	3730	3.3	11
3/28/91	64	7.7	2950	2.5	8.2
4/5/91	71	8.2	3000	2.7	4.8
4/11/91	58	8.2	3420	3.1	4.7
4/19/91	64		4330	3.8	6.9
4/25/91	64	7.8	4540	4.0	11
5/2/91	64	8.1	4790	3.7	6.2
5/9/91	72	8.4	5140	4.2	4.5
5/11/91	76	8.2	5610	4.5	2.8
5/14/91	68	9.1	6150	4.7	2.0
5/16/91	76	8.4	5820	4.3	2.2
5/19/91	64	8.8	5480	3.8	2.0
5/21/91	76	8.8	6210	4.2	1.7
5/23/91	74	8.5	5520	3.5	2.0
5/25/91	78	8.2	5610	3.7	1.9
5/28/91	80	8.3	5700	3.3	1.7
5/30/91	71	9.6	4640	3.1	1.7
6/1/91	72	8.4	5090	2.7	1.8
6/3/91	74	8.2	4500	2.7	1.6
6/5/91	78	8.8	4680	2.9	1.7
6/7/91	82	8.4	6330	3.6	1.9
6/10/91	88	8.2	7180	4.5	1.6
6/12/91	80	8.1	4460	3.3	2.4
6/14/91	70	8.1	3490	2.4	2.0
6/17/91	74	7.9	4000	2.6	1.8
6/19/91	70	8.1	3570	7.0	1.6
6/21/91		8.6	3500	1.8	1.6
6/24/91	78	8.4	4250	2.9	2.4
6/26/91	74	8.5	4100	4.7	25
6/28/91	68		3980	5.2	23
7/1/91	78	8.0	3910	4.5	33

Table-D1 Mud Slough at Newman Gun Club (MER551) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/3/91	88	8.2	3650	5.3	30
7/5/91	80	8.1	3880	5.7	29
7/8/91	72	8.0	4150	5.6	26
7/10/91	74	7.7	3710	4.8	24
7/12/91	84	8.3	3540	5.6	26
7/15/91	80	8.1	3860	6.0	35
7/17/91	82	8.9	3690	5.4	33
7/19/91	78	7.9	3510	5.0	29
7/22/91	80	7.5	3350	4.8	26
7/24/91	84		3610	4.7	32
7/26/91	80		3310	4.2	29
7/29/91	82		3700	5.2	38
7/31/91	76		3480	4.8	26
8/2/91	82	8.6	2640	4.6	23
8/5/91	74	8.6	3400	4.8	23
8/7/91	78	7.7	3070	4.5	27
8/9/91	82	8.8	3000	4.5	27
8/14/91	82	7.5	3250	4.6	27
8/16/91	77		3200	4.6	30
8/19/91	76	8.9	3090	4.2	26
8/21/91	81		3230	4.4	26
8/23/91	65		3520	5.3	21
8/26/91	78	7.8	3320	4.9	24
8/28/91	71	8.3	3050	4.1	23
8/30/91	75	9.0	3130	4.3	23
9/3/91	79	7.9	3500	2.0	35
9/7/91	74	8.2	3500	4.6	31
9/10/91	64		3720	5.2	38
9/14/91	82	8.1	3570	4.9	30
9/17/91	84	8.5	3630	5.1	36
9/21/91	70	8.1	2640	3.2	17
9/23/91	82	8.6	2980	3.1	9.0
9/27/91	68	8.1	3210	3.2	8.6
9/30/91	71	8.1	2500	1.7	4.0
10/4/91	88	8.2	2870	2.4	3.3
10/7/91	70	7.9	2280	1.8	3.6
10/10/91	78	8.3	1550	0.85	2.9
10/18/91	62	8.0	1860	1.2	3.0
10/25/91	58	7.9	1310	0.94	2.5
11/1/91	66	8.7	1480	0.94	3.1
11/8/91	66	8.6	1250	0.83	2.4
11/15/91	59	8.5	2030	1.6	2.9
11/25/91	49	8.1	2450	1.8	1.8
12/6/91	49	8.3	3070	2.1	1.1
12/13/91	49	8.4	3020	2.2	1.2
12/20/91		8.4	3860	2.7	1.3
12/26/91	46	8.3	3530	2.5	1.0
1/10/92	48	8.1	1690	1.2	1.1
1/17/92	44	8.1	2420	1.5	1.0
1/24/92		8.3	2590	1.6	0.8
1/31/92	48	8.2	3100	2.1	1.4
2/28/92	64	7.4	2290	1.7	
3/13/92	68	7.9	3230	2.5	1.5
3/20/92	60	8.1	2800	2.2	1.2
3/26/92	68	7.9	2340	2.0	2.0
3/30/92	63	7.9	2760	2.5	1.9
4/2/92	72	7.8	2420	2.2	1.2
4/6/92	64	8.1	2790	2.6	1.2

Table-D1 Mud Slough at Newman Gun Club (MER551) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
4/9/92	68	8.1	2820	2.5	1.5
4/13/92	64	8.1	3420	2.6	1.7
4/16/92	72	8.0	3730	2.9	1.4
4/20/92	70	8.4	4230	3.5	1.4
4/23/92	68	8.4	4410	2.4	8.9
4/27/92	79	8.4	5010	3.9	
4/30/92	82	8.7	5550	4.3	2.4
5/7/92	74	8.1	3090	4.7	1.7
5/15/92	81	8.4	5100	3.4	1.7
5/21/92	82	8.5	7570	4.4	1.5
5/29/92	80	8.3	7320	4.4	2.1
6/5/92	90	8.4	3590	2.6	2.1
6/12/92	79	8.2	4390	3.0	2.8
6/19/92	85	8.3	4740	3.4	2.2
6/26/92	76	8.4	4260	5.7	48
7/3/92	81	8.3	4100	5.6	23
7/10/92	85	8.4	4830	6.8	36
7/17/92	84	8.2	3480	5.1	41
7/24/92	79	8.7	3630	6.5	31
7/30/92	76	8.7	4220	5.6	38
8/7/92	84	8.5	3650	4.5	27
8/14/92	84	8.7	3550	4.3	22
8/23/92	73	8.2	2800	3.4	23
8/28/92	74	8.3	2950	2.9	14
9/4/92	79	8.4	3090	2.1	4.5
9/11/92	78	8.4	3690	6.0	40
9/18/92	78	8.2	3480	3.1	5.7
9/25/92	67	7.9	3150	3.0	3.3
10/2/92	72	8.0	1380	0.94	4.1
10/9/92	64	8.0	1510	1.0	4.8
10/16/92	72	8.4	1740	1.2	3.8
10/23/92	73	8.7	1720	1.1	3.8
10/29/92	62	8.0	1900	1.4	2.9
11/5/92	68	8.1	2390	1.8	2.4
11/30/92	50		4850	3.6	3.2
12/30/92	47		3790	4.7	34
1/28/93	45	8.7	1640	1.1	1.1
2/24/93	56	8.0	1350	1.2	2.9
3/26/93	60	7.7	3130	2.8	5.0
4/30/93	74	8.5	3260	2.6	3.0
6/25/93	91	8.0	2150	1.7	2.2
7/30/93	86	8.5	3000	2.3	1.4
8/20/93	76	7.6	1450	1.0	1.4
9/17/93	72	8.4	1980	1.0	4.4
9/24/93	81	8.4	2600	2.0	1.0
10/1/93	86	7.7	2920	2.1	1.3
10/8/93	75	8.4	1640	1.2	1.2
10/15/93	74	8.0	1130	1.1	1.1
10/21/93		7.8	1010	0.70	0.8
10/29/93	69	7.7	909	0.63	0.6
11/5/93	67	7.4	1200	0.82	0.6
11/30/93	56	7.9	1340	1.0	
11/30/93	56	7.9	1340	0.97	0.5
12/28/93	45	7.6	1520	1.1	0.5
1/27/94	54	8.0	1750	1.3	1.9
2/23/94	56	8.2	4810	3.4	1.0
3/31/94	72	8.1	3760	3.0	1.6
3/31/94	72	8.1	3760	2.7	22

Table-D1 Mud Slough at Newman Gun Club (MER551) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
4/27/94	62	7.8	3330	2.6	1.6
5/25/94	72	6.7	3100	2.4	1.3
6/29/94	80	7.9	3160	2.4	1.4
7/27/94	79	8.0	1650	1.2	1.1
8/31/94	88	8.5	1490	2.0	1.2
9/29/94	75	7.6	1570	0.85	1.0
10/27/94	66	7.7	1300	0.76	0.7
11/22/94		8.4	1900	1.1	0.7
12/29/94	47	7.6	1730	1.1	0.9
1/26/95	52	8.6	1300	1.0	0.8
2/23/95	59	7.8	2820	2.2	0.9
4/26/95	71	7.9	938	0.78	4.2
6/28/95	71	8.0	2770	1.8	1.3
7/27/95	89	8.7	1370	1.0	1.8
8/31/95	76	8.1	1210	0.80	1.4
9/28/95	65	7.6	2840	1.6	1.1
Count	220	217	241	244	242
Min	41	6.2	230	0.10	0.5
Max	91	9.6	7570	7.0	48
Mean	68	8.1	3118	2.8	8.4
Geo Mean	67	8.1	2827	2.4	3.8
Median	71	8.1	3090	2.6	2.8

Table-D2 Mud Slough (north) at Highway 140-(MER541)

Location: Latitude 37°17'28", Longitude 120°56"34". Located 4.0 miles northeast of Gustine on Hwy 140 Mud Slough (north) is approximately 1.7 miles northeaast of the Santa Fe Grade and Hwy 140 intersection and 1.4 miles southeast of Freemont Ford

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85		6.9	3100	3.1	13
6/3/85			3100	4.2	17
7/2/85		8.2	2200	3.1	23
8/14/85			2100	3.1	13
8/29/85		8.4	1800	2.4	12
9/28/85			2300	2.0	3
10/30/85		8.0	1390	1.1	2
12/7/85		8.2	1930	1.9	2
12/18/85		8.4	3100	3.3	1
1/4/86		8.6	3700	4.8	9
1/9/86		7.9	3300	3.2	5
1/14/86			3100	3.0	9
2/7/86		8.0	3400	3.2	2
2/16/86		8.0	2700	3.1	12
3/1/86		8.0	1400	1.5	5
4/3/86					5
4/26/86		8.0	1300	1.4	8
5/13/86			2400	2.8	26
6/3/86		8.2	2100	3.7	25
6/16/86			2300	3.1	22
6/26/86		8.0	2500	3.5	23
8/4/86		8.5	1900	2.7	19
9/2/86			1800	2.1	11
9/27/86		8.5	2200	2.4	5.6
11/3/86				1.6	2.0
12/4/86		7.7		2.6	1.7
1/2/87		8.0	3400	2.8	3.8
1/30/87		8.0	2800	2.8	5.3
2/27/87		8.2	3830	5.1	32
4/1/87		8.2	3320	4.0	16
5/1/87		8.0	6620	5.6	6.3
6/1/87		8.0	2620	3.5	19
6/15/87			3030	4.7	27
7/1/87			1800	1.7	5.7
7/15/87			2400	3.2	22
7/31/87		7.8	2200	3.0	22
8/17/87			2580	3.3	29
9/1/87			2290	3.0	25
9/18/87		8.4	2070	2.2	17
10/1/87	75	7.9	1850	1.5	3.8
10/15/87	62	6.8	1880	1.2	2.2
11/3/87	59	8.0	1550	1.1	1.7
11/17/87	54	8.0	1890	1.4	1.5
12/1/87	53	7.7	2840	2.0	1.4
12/14/87	39	8.1	2700	2.0	1.2
1/5/88	50		3250	2.5	4.3
1/15/88	50	7.9	2900	2.5	4.3
1/28/88	54		2650	2.2	
2/16/88	56	8.4	3450	3.3	8.4
2/24/88	59	8.2	3200	2.8	
3/2/88	56	8.2	2300	1.9	2.2
3/9/88	60		3050	3.3	17
3/18/88	62	8.8	3300	2.3	11
3/24/88	63	7.4	2750	2.9	11
3/30/88	56	8.3	2600	2.6	5.4

Table-D2 Mud Slough (north) at Highway 140 (MER541) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
4/8/88	60	8.3	2600	2.1	3.6
4/15/88	59		2250	1.9	9.5
4/22/88	61	8.0	2650	2.5	12
4/28/88	68	8.4	3500	3.0	8.4
5/5/88	62	8.0	5100	4.0	9.0
5/11/88	73	8.0	4000	3.0	5.5
5/19/88	65	8.4	3000	2.4	8.3
5/25/88	75	8.3	2250	2.5	15
6/1/88	70	8.0	2350	2.9	16
6/6/88	70	7.1	2750	3.9	22
6/13/88	78	8.3	2350	2.5	8.5
6/23/88	76	7.5	2450	2.7	16
6/29/88	65	8.2	2600	3.4	18
7/6/88	80	9.0	2270	2.4	13
7/13/88	79	8.8	1700	1.2	3.4
7/20/88	79	8.8	3500	4.0	25
7/27/88	84	8.0	2900	3.4	21
8/1/88	79	8.5	2800	3.4	24
8/9/88	78	8.3	2750	3.5	23
8/16/88	75	9.1	2900	3.3	14
8/23/88	74	7.8	3280	3.4	7.6
9/1/88	80		3130	3.5	17
9/8/88	78		3000	3.7	17
9/15/88	75		3500	4.0	22
9/20/88	66		3750	4.0	12
9/29/88	67	7.2	4120	2.5	5.5
10/4/88	67		1350	0.81	4.5
10/11/88	70	7.5	1350	0.69	3.5
10/17/88	72		1260	0.68	1.9
10/25/88	66	7.3	1450	0.88	2.1
11/1/88	66	7.5	1990	1.2	1.8
11/10/88	60	7.6	2490	1.6	1.6
11/15/88	54	7.5	3150	2.0	1.6
11/22/88	55	7.5	3650	2.4	1.9
12/8/88	52		1790	1.2	0.9
12/28/88	41		2300	1.5	1.1
1/11/89	45		2700	1.9	0.7
1/26/89	49		3400	2.4	2.5
1/31/89	50		3300	2.8	5.0
2/7/89	42		3050	2.2	1.1
2/14/89	47	8.2	2950	2.2	1.1
3/1/89	56	7.8	3780	2.8	5.0
3/7/89	64	7.8	3520	2.6	3.7
3/15/89	59		3700	2.8	2.1
3/21/89	63		3630	2.7	1.9
3/29/89	66	7.6	4090	3.2	6.9
4/5/89	62	6.6	4990	3.3	1.9
4/12/89	72	7.3	6350	4.5	2.1
4/20/89	70		3200	3.0	1.6
4/26/89	65	8.1	3160	2.8	2.0
5/1/89	69	7.6	2810	2.5	1.7
5/10/89	64	7.8	3780	2.8	2.3
5/17/89	76	8.3	6300	4.8	5.0
5/24/89	66	8.2	6790	5.4	8.8
5/30/89	76	8.2	2700	2.1	3.0
6/7/89	79	7.8	3470	2.5	2.4
6/14/89	75		1930	1.4	2.2
6/21/89	70		4120	2.9	2.0

Table-D2 Mud Slough (north) at Highway 140 (MER541) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/27/89		8.0	4840	4.4	3.3
7/5/89	88	9.0	4950	4.1	5.7
7/12/89	78	8.2	1890	1.5	2.0
7/19/89	79	8.4	1730	1.4	1.9
7/25/89	76	7.6	1430	1.4	4.2
8/1/89	79	9.0	2050	1.9	6.1
8/9/89	84	8.7	3170	3.0	7.4
8/16/89	81	8.2	2760	3.2	13
8/24/89	78	8.4	2480	3.1	11
9/1/89	78	8.4	3080	3.3	9.6
9/6/89	74	8.3	1100	0.84	3.6
9/13/89	73	8.3	1630	1.1	2.6
9/21/89	68	6.8	1220	0.72	1.4
9/29/89	65	7.4	1200	0.72	1.6
10/6/89	70	7.8	1460	0.92	1.9
10/13/89	66	7.5	1920	1.1	1.2
10/20/89	68	5.9	1120	0.77	1.0
10/30/89	58	7.6	990	0.60	1.0
11/6/89	59	7.7	1450		1.7
11/13/89	58	6.9	1410	0.87	1.1
11/20/89	53	7.4	1410	0.93	1.4
11/30/89	50	7.7	1530	1.1	1.9
12/8/89	48	7.3	1870	1.2	1.4
12/15/89	43	8.3	1940	1.2	1.1
12/21/89	43	7.6	1680	1.1	1.1
12/29/89	42	8.1	2110	1.4	1.4
1/5/90	42	7.8	2620	1.7	1.4
1/11/90	45	8.0	2540	1.7	0.9
1/19/90	48		2510	2.0	7.0
1/26/90	48	8.0		2.3	7.2
2/2/90	50	8.1	3080	2.2	5.5
2/19/90	49	8.3		3.4	20
2/26/90			3030	3.1	12
3/5/90		8.0	3230	3.0	14
3/9/90	59	8.0	3600	3.1	12
3/16/90	64	8.1	4120	3.6	11
3/23/90	67	7.2	4380	3.4	3.8
3/30/90	63	8.2	5330	4.1	4.7
4/6/90	69	7.9	5560	3.8	2.8
4/12/90	70	8.1	6330	4.5	3.1
4/20/90	67	8.2	4430	4.1	1.7
4/27/90	68	8.5	3440	3.0	1.3
5/4/90	84	8.3	5420	3.8	1.6
5/11/90	68	8.3	7560	5.3	1.4
5/18/90	70	8.4	8940	5.8	1.1
5/25/90	65	8.6	5220	3.8	8.7
5/31/90	70	8.4	3730	4.0	28
6/8/90	70	8.2	5540	4.2	3.7
6/15/90	68	8.4	4580	5.6	28
6/22/90	74	8.2	1980	1.7	4.9
6/28/90	70	9.3		4.9	15
7/6/90	77	9.4	3470	4.8	22
7/13/90	78	9.4	4520	5.5	13
7/20/90	78	9.5	3310	4.7	20
7/27/90	80	9.5	3170	5.0	20
8/3/90	75	9.5	1650	4.4	21
8/9/90	86	8.2	2900	4.0	15
8/16/90	74	9.9	3150	4.2	23

Table-D2 Mud Slough (north) at Highway 140 (MER541) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/24/90	72	8.7	3000	3.7	17
8/31/90	68	9.0	3040	4.0	26
9/2/90	51	8.1	3000	2.0	1.9
9/7/90	67	8.2	3450	4.7	31
9/14/90	68	9.0	3760	4.9	10
9/21/90	67	8.4	2770	3.2	7.8
9/28/90	69		1160	0.99	5.1
10/5/90	72	8.2	870	0.46	3.1
Count	137	141	173	177	176
Min	39	5.9	870	0.46	0.7
Max	88	9.9	8940	5.8	32
Mean	65	8.1	2954	2.8	8.8
Geo Mean	64	8.1	2705	2.5	5.3
Median	67	8.1	2800	2.8	5.4

Table-D3 Mud Slough (north) at San Luis Drain (MER542)
Location: Latitude 37°19'50", Longitude 120°57"03". In NW 1/4, NE 1/4, NW 1/4, Sec. 14, T.7S., R.9E
5.0 miles east of Gustine, 3.5 miles SE of Highway 140. Located within Kesterson N. W. R.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
10/12/90	62	8.9	1050	0.69	2.4
10/19/90	68	8.1	1100	0.68	1.9
10/26/90	63	8.0	1500	1.2	3.1
11/2/90	50	8.0	1970	1.4	1.5
11/9/90	48	7.9	2800	1.9	1.4
11/16/90	54	7.9	4280	3.0	1.5
11/27/90	48	8.0	4780	3.2	1.0
12/7/90	48	8.1	5530	3.6	1.1
12/14/90	42	8.0	5320	3.7	1.5
12/21/90	39	7.8	6170	3.8	1.8
12/28/90	40	8.0	6350	4.3	1.1
1/4/91	44	8.4	5880	3.8	1.2
1/10/91	54	7.8	6110	4.4	1.6
1/15/91	51	7.1	4910	3.4	1.3
1/18/91	46	7.8	3510	2.1	0.9
1/25/91	46	8.5	4550	2.9	1.3
2/1/91	46	7.8	6110	4.5	1.0
2/8/91	52	7.8	5830	4.2	1.7
2/15/91	57	7.8	6240	4.8	2.3
2/22/91	59	7.8	6890	4.6	1.5
3/1/91	58		6380	4.9	2.3
3/8/91	60	7.6	3710	3.2	9.4
3/15/91	54	8.6	2810	2.1	0.7
3/21/91	52	7.3	4030	4.5	31
3/28/91	63	7.5	4100	4.0	24
4/5/91	67	8.1	2980	2.8	5.5
4/11/91	56	8.1	3320	3.0	5.5
4/19/91	64		4640	4.4	6.9
4/25/91	62	7.7	5140	4.9	15
5/2/91	64	7.8	5640	5.3	20
5/9/91	70	7.9	6970	6.0	3.8
5/11/91	72	7.6	7540	6.1	2.5
5/14/91	64	8.4	8290	6.4	1.6
5/16/91	74	7.9	8360	5.9	1.4
5/19/91	58	7.8	8610	6.0	1.3
5/21/91	70	7.8	8680	5.7	0.8
5/23/91	72	8.1	9190	6.2	1.4
5/25/91	76	7.9	9150	6.6	1.0
5/28/91	70	7.6	9620	6.4	0.9
5/30/91	73	9.1	9300	6.4	1.1
6/1/91	70	7.9	9910	7.9	0.8
6/3/91	66	7.6	10030	7.0	0.9
6/5/91	76	8.3	7440	5.4	2.5
6/7/91	80	8.0	9710	4.2	0.7
6/10/91	80	7.8	4450	2.8	3.5
6/12/91	78	8.0	4610	3.3	2.5
6/14/91	64	7.6	8890	5.9	1.5
6/17/91	72	7.9	10390	6.9	0.8
6/19/91	64	7.6	10860	6.0	1.2
6/21/91		8.2	>10000.	6.0	0.5
6/24/91	76	8.3	3560	4.8	30
6/26/91	70	8.6	3830	5.3	32
6/28/91	70		3510	5.1	31
7/1/91	78	8.4	3710	4.5	39
7/3/91	84	8.0	3650	5.4	35

Table-D3 Mud Slough (north) at San Luis Drain (MER542) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/5/91	82	8.2	3820	5.7	38
7/8/91	74	7.6	4050	6.2	43
7/10/91	74	7.9	3640	5.5	35
7/12/91	84	8.0	3760	6.3	37
7/15/91	76	8.3	4000	6.4	46
7/17/91	74	8.0	3890	6.2	46
7/19/91	74	8.3	3770	5.8	43
7/22/91	78	9.5	3520	5.6	39
7/24/91	82		3560	5.0	44
7/26/91	82		3400	4.7	41
7/29/91	82		3590	5.6	37
7/31/91	78		3200	4.4	26
8/2/91	77	8.5	3130	4.7	27
8/5/91	72	8.5	3220	5.0	26
8/7/91	76	7.9	2710	3.9	28
8/9/91	84	9.1	2440	2.9	20
8/12/91	74	7.7	2940	4.2	28
8/14/91	78	7.7	2970	4.1	32
8/16/91	76		3070	4.7	32
8/19/91	73	8.8	2810	3.8	26
8/21/91	74		3170	4.4	26
8/23/91	69		3430	5.1	27
8/26/91	74	7.9	2970	4.3	26
8/28/91	69	8.4	2820	3.8	25
8/30/91	76	9.1	3290	4.9	26
9/3/91	77	7.9	3020	4.2	35
9/7/91	76	8.3	3040	4.7	29
9/10/91	64		3420	5.0	45
9/14/91	78	8.2	3240	4.8	41
9/17/91	78	8.6	2950	3.7	30
9/21/91	72	8.2	1510	1.7	9.5
9/23/91	75	8.2	2720	4.0	18
9/30/91	72	8.1	1180	1.8	3.3
10/4/91	84	8.8	760	0.38	1.9
10/7/91	70	8.3	740	0.28	1.6
10/10/91	78	8.4	660	0.20	1.3
10/18/91	62	7.9	980	0.71	1.6
10/25/91	60	8.0	950	0.73	1.1
11/1/91	65	8.4	1110	0.73	1.4
11/8/91	66	8.1	1990	1.6	1.8
11/15/91	58	8.8	2880	2.4	1.2
11/25/91	52	8.1	2270	1.7	0.8
12/6/91	47	8.0	3300	2.3	0.7
12/13/91	47	8.3	3140	2.3	1.2
12/20/91		8.1	3380	2.7	0.8
12/26/91	48	8.2	4050	2.9	0.7
1/2/92	45	8.3	2510	1.4	0.6
1/10/92	48	7.9	1880	1.3	0.6
1/17/92	46	8.0	3320	2.3	0.7
1/24/92		8.2	3720	2.5	1.0
1/31/92	50	8.1	3670	2.6	1.5
2/7/92	58	8.0	3830	2.8	1.6
2/14/92	56	7.9	1830	1.3	0.4
2/21/92	57	7.8	2000	1.7	3.6
2/28/92	64	7.4	2280	1.7	1.0
3/6/92	58	7.9	2810	2.3	1.4
3/13/92	66	7.7	2950	2.4	1.4
3/20/92	60	8.1	2640	2.1	1.0

Table-D3 Mud Slough (north) at San Luis Drain (MER542) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/26/92	66	7.8	2550	2.3	3.3
3/30/92	62	8.0	2860	2.6	2.4
4/2/92	66	7.9	2640	2.3	1.5
4/9/92	64	8.1	3120	2.7	1.5
4/16/92	67	8.1	3610	3.0	1.1
4/23/92	65	8.1	5060	4.5	12
4/30/92	79	8.0	6890	5.5	1.6
5/7/92	70	7.7	6910	2.1	0.7
5/15/92	81	8.0	6900	4.3	
5/21/92	87	7.9	8040	2.2	19
5/29/92	79	7.9	7660	4.3	1.2
6/5/92	78	7.9	4400	3.2	2.2
6/12/92	75	7.9	8670	5.5	1.0
6/19/92	81	8.7	6360	4.1	1.2
6/26/92	77	8.3	3990	5.8	50
7/3/92	81	8.3	4210	6.3	45
7/10/92	82	8.5	4660	6.6	50
7/17/92	82	8.1	3890	5.7	47
7/24/92	77	8.6	4060	6.3	48
7/30/92	75	8.4	4350	6.5	47
8/7/92	84	8.5	3480	5.0	40
8/14/92	80	8.2	3940	6.8	45
8/23/92	73	8.1	2340	2.9	24
9/4/92	76	8.5	2750	4.0	24
9/11/92	77	7.9	2670	3.8	25
9/18/92	70	8.1	1450	1.1	3.5
9/25/92	65	8.1	1390	0.86	2.3
10/2/92	68	7.8	810	0.27	1.4
10/9/92	72	8.4	890	0.51	1.4
10/16/92	66	8.2	1210	0.74	1.4
10/23/92	66	7.9	1670	1.1	1.1
10/30/92	62	7.5	2710	2.3	1.0
11/6/92	64	7.9	2930	2.2	1.3
11/13/92	53	7.9	3780	2.8	1.1
11/30/92	50		5000	3.8	0.8
12/4/92	51	8.0	4220	3.2	1.8
12/14/92	48	8.3	2560	1.9	1.9
12/22/92	49	8.1	4810	3.7	2.4
12/30/92	52		4750	6.4	59
1/8/93	56	7.8	3380	3.0	3.0
1/15/93			1270	0.95	1.8
1/22/93	53	8.3	1130	1.1	1.7
1/28/93	46	8.4	1530	1.0	0.9
2/4/93	52	7.9	2330	2.0	1.5
2/10/93	55		1380	1.3	2.5
2/19/93	56	7.7	2210	1.8	2.3
2/24/93	57	8.1	1270	1.3	4.3
3/5/93	60	7.8	1440	1.3	1.8
3/12/93	66	7.8	3020	2.3	2.5
3/18/93	63	7.9	3050	2.4	1.7
3/26/93	60	7.7	3840	3.9	12
4/2/93	65	8.0	2060	2.1	9.4
4/9/93	67	8.1	2910	2.8	5.7
4/16/93	65	8.1	2850	2.4	1.8
4/23/93	63	8.1	3350	2.9	3.4
4/30/93	70	8.0	4700	4.0	1.8
5/7/93	70	8.0	5510	4.1	5.5
5/14/93	68	7.8	7250	4.9	1.1

Table-D3 Mud Slough (north) at San Luis Drain (MER542) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/21/93	72	7.9	4020	2.8	2.7
5/28/93	70	7.6	1300	1.2	3.7
6/4/93	71	8.0	2630	2.5	8.3
6/11/93	73	7.9	2590	2.4	4.5
6/18/93	72	7.8	4120	3.2	2.2
6/25/93	78	7.5	1850	1.5	1.6
7/2/93	80	8.6	1800	1.4	3.2
7/9/93	72	7.3	2150	1.6	2.5
7/16/93	72	8.2	2010	1.8	2.6
7/23/93	81	7.8	3420	2.5	1.8
7/30/93	73	7.3	2470	1.9	3.0
8/6/93	74	7.9	2510	1.8	2.9
8/13/93	75	7.2	1900	1.4	1.3
8/20/93	70	7.6	1330	0.97	1.4
8/27/93	72	7.0	3500	2.1	2.6
9/3/93	80	7.8	1740	1.2	1.9
9/10/93	75	7.7	2480	1.7	2.2
9/17/93	66	8.1	1840	1.4	7.0
9/24/93	64	7.8	2170	1.5	0.9
10/1/93	76	7.6	2130	1.4	1.6
10/8/93	69	8.1	1510	1.0	1.5
10/15/93	68	7.8	960	0.66	0.7
10/21/93		8.1	850	0.60	0.9
10/29/93	67	7.1	870		1.8
11/5/93	59	7.3	1050	0.75	0.4
11/12/93	58	7.8	1070	0.70	0.6
11/22/93	53	7.6	1130	0.85	0.7
11/30/93	53	7.8	1260	0.92	0.4
12/3/93	49	7.8	1310	1.1	0.7
12/10/93	56	8.0	1390	0.98	0.6
12/17/93		7.8	1300		0.7
12/28/93	46	7.8	1480	0.98	0.7
1/7/94	49	8.0	1830	1.4	0.4
1/14/94	49	8.1	2010	1.6	<0.4
1/21/94	52	8.1	1610	1.2	0.5
1/28/94	50	7.8	1800	1.5	2.8
2/3/94	50	7.2	2020	1.4	1.5
2/11/94	51	8.0	2010	1.5	1.2
2/17/94	52	8.1	2030	1.6	0.8
2/25/94	59	8.0	1670	0.98	0.6
3/4/94	62	7.7	2490	1.9	0.9
3/9/94	60	8.0	2300	1.9	2.1
3/16/94	63	7.7	2780	2.1	1.0
3/23/94	58	8.0	2710	2.0	1.7
4/1/94	70	7.8	3860	3.1	1.0
4/6/94		8.1	3370	3.0	1.3
4/15/94	71	8.2	2910	2.3	1.4
4/21/94	71	7.7	4330	3.4	1.0
4/27/94	59	8.1	3860	3.3	1.2
5/4/94	71	7.7	5630	3.8	1.0
5/10/94	82	8.0	2960	2.1	1.0
5/16/94	65	8.0	4190	3.2	1.9
5/25/94	78	7.8	4960	4.4	0.9
6/1/94	72	7.9	4870	3.9	0.7
6/8/94	64	7.9	4730	3.4	0.8
6/15/94	69	7.9	5650	4.2	0.8
6/21/94	64	8.1	5380	3.7	1.5
6/29/94	84	8.1	4730	3.4	1.5

Table-D3 Mud Slough (north) at San Luis Drain (MER542) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/6/94	74	8.6	3130	2.4	1.7
7/13/94	78	8.1	4480	2.3	1.3
7/21/94	76	8.1	4630	3.3	1.3
7/27/94	82	8.5	3390	2.2	1.0
8/3/94	74	8.4	1960	1.5	3.2
8/10/94	72	7.9	3660	2.5	0.9
8/16/94	76	8.0	2840	2.0	1.1
8/24/94	72	7.6	2950	2.0	0.8
8/31/94	80	8.4	3480	2.2	0.9
9/7/94	72	8.4	2560	1.5	1.4
9/14/94	71	8.2	2640	1.5	0.9
9/22/94	75	7.7	880	0.20	0.9
9/29/94	75	8.0	2400	1.4	0.9
10/7/94	66	7.8	1550	0.89	1.4
10/12/94	63	8.1	1410	0.87	0.6
10/20/94	64	7.8	1300	0.76	0.8
10/27/94	64	7.9	1370	0.87	0.6
11/8/94	50	8.0	1460	0.94	0.9
11/10/94	54	7.9	1860	1.2	0.5
11/18/94	50	8.2	1810	1.1	0.4
11/22/94		8.1	1770	1.1	0.4
12/1/94	47		1690	1.0	0.4
12/9/94	44		1710	1.1	0.5
12/15/94	47		1800	1.1	0.5
12/21/94	48		1880	1.3	0.5
12/29/94	46	7.5	1790	1.2	0.7
1/5/95	49	7.7	1730	1.1	0.8
1/12/95	54	7.7	1520	1.1	0.7
1/19/95	48	7.7	1240	1.0	0.6
1/26/95	52	8.9	1000	0.9	0.7
2/3/95	58	8.1	1490	1.2	0.6
2/9/95	58	8.3	2370	1.8	0.6
2/17/95	56	7.8	2570	1.8	0.9
2/23/95	60	8.0	2360	1.8	0.8
3/9/95	57	8.2	2690	2.0	0.9
3/15/95				1.0	1.7
3/23/95	56	7.1	1660	1.9	9.1
3/29/95	63	8.3	2040	2.2	8.2
4/5/95				2.4	5.4
4/13/95	64	8.0	2110	1.8	1.3
4/21/95	63	8.0	1930	1.6	1.3
4/28/95	69	8.1	1960	2.0	1.8
5/3/95	73	7.9	2290	2.5	17
5/12/95	69	8.3	1500	1.3	1.4
5/26/95	70	8.1	1040	0.88	0.9
6/2/95	72	7.7	1020	0.71	1.5
6/9/95	70	7.9	1510	1.0	1.0
6/16/95	71	7.8	1320	1.0	1.4
6/23/95	80	8.1	1490	1.0	0.8
6/28/95	78	8.1	2440	1.8	1.7
7/6/95	78	8.3	1570	1.1	2.8
7/13/95	76	7.6	943	0.64	1.2
7/20/95	80	8.1	1490	1.1	1.4
7/27/95	90	7.6	1030	0.73	1.2
8/10/95	77	7.9	2730	1.7	2.7
8/17/95	76	8.3	1460	0.85	2.5
8/24/95	84	7.7	1080	0.65	1.8
8/31/95	74	8.8	1140	0.91	1.5

Table-D3 Mud Slough (north) at San Luis Drain (MER542) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
9/7/95	78	8.5	676	0.43	1.4
9/15/95	73	7.9	4600	2.7	1.2
9/22/95	78	8.0	616	0.35	0.9
9/28/95	75	8.0	2400		
Count	281	270	288	289	289
Min	39	7.0	616	0.06	<0.4
Max	90	9.5	10860	7.9	59
Mean	66	8.0	3315	2.8	7.8
Geo Mean	65	8.0	2762	2.2	2.5
Median	68	8.0	2870	2.3	1.5

Table-D4 Los Banos Creek at State Highway 140 (MER554)
Location: Latitude 37°16'35", Longitude 120°57'14". In NE 1/4, SW 1/4, SW 1/4, Sec., 35, T.7S., R.9E
South side of Highway 140, 2.9 miles NE of Gustine.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
12/18/85		8.3	2600	2.3	1
1/9/86		8.2	3600	2.4	1
1/14/86		8.1	2700	1.4	1
2/7/86		8.3	3000	2.9	1
4/19/86		8.0	1300	1.6	<1
1/30/87		8.0	2400	2.1	0.9
2/27/87		8.3	2670	2.5	1.4
4/1/87		8.0	3350	4.2	1.1
5/1/87		8.3	2300	2.0	3.7
6/1/87		7.6	1320	1.1	1.4
7/1/87			1300	0.94	2.3
7/31/87		7.4	1200	0.60	1.4
9/1/87			1410	0.84	1.5
10/1/87	77	8.0	2040	2.9	0.6
11/3/87	58	8.8	1100	0.52	0.9
12/1/87	53	7.7	1480	0.82	1.0
1/5/88	51		2200	1.3	0.4
1/28/88	55		1900	1.3	1.0
3/9/88	60		7450	6.6	0.5
3/30/88		8.5	2850	2.8	1.7
5/5/88		8.2	4500	3.3	1.6
6/1/88		8.1	1300	1.1	1.5
6/29/88	65	8.2	1350	0.9	1.5
8/1/88		8.2	1250	0.76	1.2
9/1/88	80		1400	0.88	1.4
10/4/88	63		910	0.30	0.6
11/1/88	67	8.0	1160	0.43	1.0
12/8/88	53		2820	1.2	0.8
1/11/89	47		1800	0.91	0.7
2/7/89	44		3000	2.4	0.8
3/1/89	57	7.8	2080	1.7	1.0
3/29/89	62	7.7	7060	5.7	<0.4
5/1/89	70	7.8	1630	1.3	1.0
5/30/89	75	8.0	1240	0.78	1.3
7/5/89	89	8.5	1250	0.85	1.3
8/1/89	82	8.8	1370	1.0	0.9
9/1/89	79	8.6	1790	1.4	2.5
9/29/89	66	7.5	800	0.37	0.6
10/30/89	59	7.6	780	0.35	0.5
11/30/89	51	7.3	1240	0.85	1.0
12/29/89	46	8.3	4060	2.4	0.4
1/19/90	48		2180	1.6	0.5
2/2/90	51	8.1	2350	1.7	0.7
3/30/90	66	7.9	2270	1.7	1.4
4/12/90	73	7.9	2140	1.5	0.9
4/27/90	71	8.4	3600	3.0	0.8
5/31/90	74	8.3	1570	1.2	0.8
6/28/90	69	9.4		1.2	0.5
7/27/90	79	9.3	1210	1.0	1.3
8/31/90	66	8.3	1410	1.1	2.0
10/26/90	66	7.8	2140	1.1	0.7
11/27/90	48	8.5	2800	1.7	0.5
12/7/90	46	8.4	3130	2.2	0.7
12/28/90	42	8.1	3860	2.0	1.0
1/25/91	46	8.7	4180	2.3	0.5

Table-D4 Los Banos Creek at State Highway 140 (MER554) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/22/91	58	8.0	3220	2.5	0.5
3/28/91	62	7.7	2050	1.6	1.0
4/25/91	61	7.9	3860	3.9	0.8
5/9/91	72	8.2	4040	3.2	1.0
5/11/91	72	8.1	4220	3.3	1.5
5/14/91	62	9.1	4240	3.3	1.0
5/16/91	76	8.8	3090	2.2	1.0
5/19/91	56	8.6	3560	2.6	0.8
6/7/91					24
6/24/91					11
6/26/91	66	8.7	1850	1.1	3.5
7/1/91	74	8.6	1080	0.50	2.8
7/3/91	88	8.2	3650	5.3	30
7/5/91	76	8.3	1780	1.6	1.9
7/8/91	72	8.0	4150	5.6	26
7/10/91	74	7.7	3710	4.8	24
7/12/91	82	8.8	1030	0.60	2.6
7/15/91	78	8.4	1680	1.0	2.3
7/17/91	84	8.3	1680	1.2	0.9
7/19/91	76	8.4	1300	0.90	1.5
7/22/91	76	7.9	1290	0.80	2.4
7/24/91	84		1180	0.60	1.8
7/26/91	78		1010	0.60	2.5
7/29/91	76		1060	0.70	2.5
8/5/91	70	8.6	1340	1.1	1.8
8/9/91	80	9.5		0.80	2.1
8/12/91	68	7.7	1090	0.80	2.8
9/14/91	76	8.1	2690	1.3	1.0
9/17/91	70	8.3	1050	0.40	3.0
9/21/91	70	8.3	1050	0.40	3.0
9/23/91	74	8.4	2010	1.2	1.5
9/27/91	68	8.1	2480	1.4	0.9
10/4/91	78	8.4	1730	1.2	1.8
12/26/91		8.1	1010	0.49	1.3
1/31/92		8.3	1450	0.56	2.1
2/28/92	64	7.2	2200	1.9	
3/30/92	63	7.8	2370	2.3	0.5
4/30/92	77	8.2	2500	2.2	0.8
7/30/92	75	7.9	1500	1.4	0.9
8/28/92	74	7.6	1340	1.2	1.9
10/29/92	60	8.4	1170	0.66	0.7
11/30/92	45		2990	1.5	0.4
12/30/92	45		2830	1.2	0.4
1/28/93	45	8.5	1850	1.6	0.6
2/4/93	53	7.8	2230	2.2	0.7
2/24/93	57	8.2	990	0.73	1.1
3/26/93	60	7.5	1340	1.3	1.2
4/30/93	74	8.0	2070	2.1	1.4
5/28/93	74	8.2	1620	1.4	0.9
6/25/93	90	8.0	1660	1.4	1.7
7/30/93	75	8.4	1310	1.1	1.3
8/12/93	81	7.9	948	0.72	1.5
8/27/93	76	7.9	863	0.56	1.1
9/24/93	70	8.4	641	0.37	0.7
10/29/93	69	7.9	669	0.37	0.6
11/30/93	55	8.3	774	0.48	0.6
12/28/93	59	7.8	1080	0.69	0.5
1/27/94	54	8.0	1280	0.89	0.3

Table-D4 Los Banos Creek at State Highway 140 (MER554) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/23/94	54	7.9	1550	1.2	0.6
3/31/94	72	8.1	2000	1.8	0.9
4/27/94	62	7.6	1780	1.4	0.6
5/25/94	70	7.3	2350	2.2	0.6
6/29/94	71	6.6	2350	3.8	<0.4
7/27/94	75	8.1	1520	0.41	0.6
8/31/94	86	9.2	2150	0.93	1.1
9/29/94	72	7.9	1110	0.58	0.8
10/27/94	62	6.6	908	0.43	0.4
11/22/94	50		1090	0.60	0.5
12/29/94	47	7.6			
1/26/95	52	8.9		0.33	0.6
2/23/95	61	7.8	2680		
3/23/95	53	8.5	780	0.73	2.2
3/29/95	63	8.0	1410		
4/13/95	72	7.9	2110		
4/26/95	67	7.9	2340	2.6	0.7
5/25/95	70	7.5	833		
6/28/95	78	7.8	774		
7/27/95	85	7.8	746	0.54	0.9
8/31/95	73	8.3	710		
9/28/95	72	7.6	1450		
Count	114	116	129	124	124
Min	42	6.6	641	0.30	<0.4
Max	90	9.5	7450	6.6	30
Mean	66	8.1	2025	1.6	2.1
Geo Mean	65	8.1	1767	1.3	1.2
Median	69	8.1	1680	1.2	1.0

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531)
Location: Latitude 37°14'55", Longitude 120°51'04". In NW 1/4, SE 1/4, SE 1/4, Sec. 10, T.8S., R.10E. 13 mi. north of Los Banos. 5.0 miles south of Highway 140.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85		8.0	1850	1.4	8
6/3/85			1250	1.1	5
7/2/85		7.7	1170	0.97	6
8/15/85			1300	0.94	4
8/29/85		7.8	1000	0.65	3
9/28/85			1250	0.68	1
10/31/85		8.1	1610	1.3	4
12/7/85		8.1	2650	2.8	8
12/18/85		7.6	2700	1.7	2
1/4/86		8.4	3300	3.6	15
1/9/86		7.5	3300	3.5	14
1/14/86			3100	3.6	12
2/7/86		7.9	3000	3.7	22
2/17/86		7.8	2400	2.5	20
3/1/86		8.0	2300	2.6	14
4/2/86					13
4/26/86		7.7	1200	1.1	6
5/13/86			900	0.43	<1
6/3/86		7.7	780	0.55	1.4
6/16/86			870	0.50	1.6
6/26/86		7.7	1120	0.71	1.5
8/4/86		8.8	1000	0.92	4.8
9/2/86			1400	1.3	8.3
9/27/86		7.8	1100	0.95	6.7
11/3/86				1.3	10
12/4/86		7.8		2.0	18
1/2/87		7.9	2500	2.4	16
1/30/87		7.7	2600	3.3	24
2/27/87		7.7	2950	3.5	26
4/1/87		7.8	2240	2.1	14
5/1/87		8.2	1570	1.4	8.6
6/1/87		7.3	1570	1.5	9.7
6/15/87			1720	1.7	12
7/1/87			1900	2.2	12
7/15/87			1700	1.6	8.6
7/31/87		7.2	1500	0.94	9.3
8/17/87			1430	0.90	5.7
9/1/87			1400	0.98	5.2
9/18/87		7.7	2030	1.8	12
10/1/87	74	7.7	1920	1.6	13
10/15/87	64	6.8	1480	0.66	1.6
11/3/87	61	8.2	1900	1.9	6.0
11/17/87	54	7.8	1690	1.0	2.4
12/1/87	54	7.5	2690	2.8	12
12/14/87	41	7.8	3200	3.4	14
1/5/88	51		3700	3.8	27
1/15/88	50	7.8	3450	3.9	26
1/27/88	52	7.6		2.0	4.9
1/28/88	55		3600	3.9	32
2/16/88	54	8.1	2700	3.0	25
3/2/88	57	8.2	2050	2.5	16
3/9/88	59		2300	2.1	18
3/18/88	60	8.8	2100	1.7	12
3/24/88	62	7.0	2350	2.2	15
3/30/88	57	7.9	2500	2.5	19

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
4/8/88	62	8.0	2550	2.6	23
4/15/88	60		1600	1.5	13
4/22/88	58	7.6	2000	1.9	15
4/28/88	67	7.8	2450	2.4	19
5/5/88	60	7.8	2400	2.4	21
5/11/88	66	7.6	1700	1.8	11
5/19/88	68	7.8	1800	1.5	11
5/25/88	73	7.8	1550	1.2	8.5
6/1/88	71	7.7	1600	1.3	8.7
6/6/88	68	7.0	1550	1.6	8.6
6/13/88	74	7.8		1.9	12
6/23/88	74	7.1	1850	1.9	12
6/29/88	68	7.9	1950	1.9	12
7/6/88	76	8.4	1820	1.7	13
7/13/88	76	8.0	2050	2.1	15
7/20/88	77	7.8	2000	2.0	14
7/27/88	82	7.8	2200	2.2	14
8/1/88	79	7.9	1850	1.7	12
8/9/88	76	8.0	1650	1.3	10
8/16/88	72	8.2	1700	1.6	12
8/23/88	74	7.5	1620	1.7	13
9/1/88	80		1800	1.5	13
9/8/88	77		2040	2.0	16
9/15/88	72		1750	1.3	12
9/20/88	65		1650	1.4	12
9/29/88	68	8.2	1600	1.2	10
10/4/88	69		1730	1.3	15
10/11/88	69	7.8	1400	0.82	7.5
10/17/88	70		1270	0.67	2.7
10/25/88	68	7.4	1500	1.2	6.8
11/1/88	66	7.7	1620	1.1	6.2
11/10/88	61	7.6	2130	1.6	7.0
11/15/88	56	8.0	2040	1.5	6.7
11/22/88	54	7.4	2450	2.0	12
12/8/88	53		2020	1.6	5.4
12/28/88	42		2900	2.7	13
1/11/89	46		2750	2.8	15
1/26/89	50		3350	3.4	33
1/31/89	50		2840	3.2	29
2/7/89	42		2800	2.7	23
2/14/89	48	7.8	2420	2.2	18
2/21/89	60		2850	2.7	26
3/1/89	56	7.7	3400	3.9	38
3/7/89	64	7.6	2850	2.7	24
3/15/89	60		2850	2.5	20
3/21/89	64		2840	2.7	31
3/29/89	65	7.3	2000	1.6	16
4/5/89	64	7.2	2900	2.5	30
4/12/89	72	7.2	2060	1.8	17
4/20/89	70		2270	2.5	18
4/26/89	62	7.9	2150	1.9	18
5/1/89	69	7.8	2480	2.7	28
5/10/89	64	7.9	2170	2.4	22
5/17/89	73	8.0	2180	2.2	18
5/24/89	66	8.2	1670	1.6	14
5/30/89	72	8.2	1970	2.2	16
6/7/89	74	7.6	2470	2.6	27
6/14/89	73		2120	2.2	19

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/21/89	72		2120	2.4	19
6/27/89	76	6.5	1350	1.6	15
7/5/89	82	7.6	1860	2.0	13
7/12/89	75	7.7	2040	2.2	16
7/19/89	78	7.9	1490	1.5	10
7/25/89	80	7.6	1590	1.7	11
8/1/89	77	7.9	1270	1.2	7.4
8/9/89	80	8.4	1670	1.8	11
8/16/89	78	8.5	1620	1.7	9.4
8/24/89	76	8.2	1530	1.6	9.2
9/1/89	73	8.0	1640	1.6	11
9/6/89	72	8.5	1570	1.5	10
9/13/89	72	7.8	1540	1.4	12
9/21/89	68	7.3	1740	1.6	14
9/29/89	67	7.4	1830	1.7	18
10/6/89	68	7.6	1580	1.3	8.7
10/13/89	66	7.7	1440	1.1	5.4
10/20/89	66	7.0	1590	1.5	9.2
10/30/89	58	7.4	1580	1.3	4.2
11/6/89	58	7.4	1690	1.4	9.4
11/13/89	59	7.4	1670	1.2	7.2
11/20/89	54	7.4	1930	1.7	9.9
11/30/89	51	7.6	1810	1.5	7.7
12/8/89	49	7.7	2080	1.7	7.2
12/15/89	45	8.0	2110		11
12/21/89	44	7.0	2600	2.1	17
12/29/89	44	7.8	2680	2.4	24
1/5/90	42	7.8	2810	2.3	22
1/11/90	45	8.0	3060	3.0	26
1/19/90	48		2960	2.9	27
1/26/90	50	7.8	4050	3.1	35
2/2/90	50	6.4	2970	2.9	36
2/19/90	49	8.1	2500	2.6	30
2/26/90		7.7	2460	2.5	21
3/5/90		7.9	2330	2.1	19
3/9/90	59	7.4	2840	2.6	29
3/16/90	62	8.0	2820	3.1	24
3/23/90	68	7.1	2530	2.2	18
3/30/90	62	7.8	3000	3.1	23
4/6/90	66	7.9	3000	2.6	24
4/12/90	68	7.7	2650	2.2	16
4/20/90	66	7.7	2340	2.4	14
4/27/90	70	7.8	2730	2.6	20
5/4/90	76	7.9	2680	2.7	28
5/11/90	70	8.0	2710	2.8	31
5/18/90	68	8.0	2850	3.0	25
5/25/90	62	7.2	2020	1.6	14
5/31/90	68	8.1	2320	2.3	16
6/8/90	74	7.9	2930	3.3	21
6/15/90	68	7.3	2780	3.4	18
6/22/90	76	7.1	2820	3.7	19
6/28/90	74	8.8	2090	2.3	11
7/6/90	77	9.4	1960	2.2	12
7/13/90	82	9.1	2410	3.0	13
7/20/90	80	8.9	1750	1.8	8.2
7/27/90	78	9.9	1860	2.0	10
8/3/90	77	9.2	1920	2.4	10
8/9/90	82	7.8	1680	1.7	9.6

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/16/90	73	9.8	1390	1.1	6.3
8/31/90	71	8.2	1210	0.94	7.9
9/2/90	50	7.1	2870	2.8	27
9/7/90	72	7.7	1960	1.1	6.3
9/14/90	72	8.5	1220	0.75	3.6
9/21/90	69	7.2	1330	1.2	9.1
9/28/90	70	7.6	1280	1.1	6.4
10/5/90	72	7.1	1160	0.78	5.4
10/12/90	63	8.2	1020	0.48	1.6
10/19/90	66	7.0	1370	0.75	2.5
10/26/90	64	7.5	1340	0.57	0.9
11/2/90	54	8.4	1180	0.51	0.9
11/9/90	50	7.9	1460	1.0	4.6
11/16/90	56	7.2	1760	1.3	4.1
11/27/90	48	7.7	2290	1.4	1.4
12/7/90	49	8.3	3200	3.0	19
12/14/90	44	8.5	3420	3.1	25
12/21/90	38	7.3	3760	3.5	23
12/28/90	40	8.3	3370	3.0	21
1/4/91	46	8.3	3250	2.8	15
1/10/91	54	6.5	3810	3.9	27
1/15/91	50	7.7	3970	4.2	26
1/18/91	47	7.0	3560	3.5	22
1/25/91	48	8.5	3690	3.7	30
2/1/91	48	8.1	3440	3.1	12
2/8/91	52	7.5	3440	3.8	28
2/15/91	57	7.3	3390	4.0	27
2/22/91	58	8.0	3280	3.2	23
3/1/91	58		2060	1.7	12
3/8/91	59	7.5	3050	2.8	19
3/15/91	53	6.9	2540	2.1	17
3/21/91	52	7.2	2470	2.0	20
3/28/91	61	7.7	2480	1.8	13
4/5/91	67	7.3	2870	2.8	20
4/11/91	56	7.3	3570	3.8	22
4/19/91	64		3140	3.1	26
4/25/91	61	7.4	2270	2.1	16
5/2/91	61	7.1	2280	1.9	15
5/9/91	68	7.5	2710	2.6	19
5/11/91	66	7.4	2840	2.7	19
5/14/91	62	7.5	2660	2.4	20
5/16/91	70	7.9	2920	2.8	22
5/19/91	60	7.5	2410	2.2	18
5/21/91	68	8.1	2370	2.3	20
5/23/91	74	8.4	2600	2.0	19
5/25/91	78	8.0	2820	2.7	21
5/28/91	70	7.4	1980	1.3	14
5/30/91	69	8.8	2840	2.9	27
6/1/91	72	7.8	3030	2.4	21
6/3/91	68	7.6	2940	2.9	24
6/5/91	76	8.5	3300	3.8	30
6/7/91	78	8.3	3350	4.6	34
6/10/91	80	7.2	2730	2.9	22
6/12/91	80	8.0	2880	3.6	25
6/14/91	66	7.3	1930	1.4	9.1
6/17/91	76	8.0	2210	2.0	14
6/19/91	66	7.3	2170	1.9	16
6/21/91		8.5	2450	2.7	23

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
6/24/91	70	7.8	1510	0.90	5.0
6/26/91	72	8.3	1730	1.0	5.1
6/28/91	68	8.2	1650	0.82	4.5
7/1/91	80	8.7	1350	0.50	2.9
7/3/91	82	7.6	1570	0.80	3.8
7/5/91	82	8.2	1820	1.0	5.1
7/8/91	74	7.1	1600	0.80	3.6
7/10/91	74	8.0	1290	0.50	2.5
7/12/91	82	8.4	1770	1.1	5.2
7/15/91	74	7.5	1740	0.30	4.8
7/17/91	74	8.6	1590	0.90	5.7
7/19/91	76	8.8	1470	0.79	3.6
7/22/91	78	7.7	1350	0.70	3.9
7/24/91	84		1430	0.80	4.8
7/26/91	78		1450	0.66	4.4
7/29/91	80		1260	0.60	3.6
7/31/91	78		1340	0.55	3.4
8/2/91	75	8.5	1180	0.60	2.9
8/5/91	72	8.5	1130	0.50	2.4
8/7/91	78	7.8	1060	0.40	1.6
8/9/91	80	9.0	1100	0.32	2.0
8/12/91	74	8.0	1400	0.90	5.1
8/14/91	80	7.8	1320	0.60	3.3
8/16/91	74		1090	0.38	1.1
8/19/91	74	9.1	1160	0.50	2.4
8/21/91	76		1240	0.50	2.0
8/23/91	70		1440	0.78	2.9
8/26/91	72	7.4	1410	0.60	2.2
8/28/91	71	8.5	1360	0.70	2.3
8/30/91	74	9.2	1510	0.81	3.0
9/3/91	80	8.3	1100	0.50	2.2
9/7/91	76	8.5	1820	1.5	9.0
9/10/91	62		1090	0.60	4.1
9/14/91	76	7.6	1210	0.67	4.8
9/17/91	80	8.7	1250	0.60	3.0
9/21/91	72	8.4	2720	2.6	16
9/23/91	78	8.8	2300	2.3	17
9/27/91	70	8.4	2150	1.9	15
9/30/91	78	8.5	2370	1.9	12
10/4/91	84	8.1	1950	0.94	3.6
10/7/91	65	7.6	1910	0.99	3.5
10/10/91	76	7.4	1620	0.51	1.1
10/18/91	65	8.1	1920	0.74	0.8
10/25/91	60	8.4	2240	1.1	0.6
11/1/91	59	7.9	1460	0.67	1.9
11/8/91	64	7.9	1700	1.4	11
11/15/91	57	8.0	2500	2.1	14
11/25/91	52	8.0	1820	1.1	4.2
12/6/91	45	8.1	1960	1.0	1.8
12/13/91	48	8.2	2360	1.6	3.8
12/20/91		8.4	2720	2.2	8.8
12/26/91	46	8.1	2810	2.4	10
1/2/92	47	8.1	3340	3.4	19
1/10/92	48	7.9	3230	3.6	21
1/17/92	46	8.3	3370	3.3	20
1/24/92		8.4	3610	3.5	19
1/31/92	50	7.8	3760	3.8	23
2/7/92	56	7.9	3560	3.6	24

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/14/92	56	7.4	2870	3.0	18
2/21/92	58	7.7	3140	3.2	17
2/28/92	65	7.5	3440	3.5	24
3/6/92	58	7.8	3050	3.4	21
3/13/92	63	7.7	2870	2.9	18
3/20/92	60	7.8	3240	3.1	23
3/23/92	61	7.8	2080	1.9	13
3/26/92	64	7.6	2020	1.8	8.6
3/30/92	63	7.8	2570	2.5	17
4/2/92	65	7.7	2650	2.5	16
4/6/92	62	8.0	2910	3.0	21
4/9/92	64	7.9	2960	3.2	23
4/13/92	64	8.1	2780	2.8	25
4/16/92	66	8.0	2570	2.7	19
4/20/92	65	8.2	2170	2.2	15
4/23/92	64	8.0	2650	2.8	25
4/27/92	71	8.0	2320	2.1	15
4/30/92	73	7.9	2750	2.7	25
5/7/92	78	8.1	2600	1.6	12
5/15/92	76	8.2	2560	1.8	
5/21/92		8.4	2420	2.2	20
5/28/92	82	8.6	2930	3.0	
5/29/92	76	8.0	2960	2.5	21
6/5/92	88	8.5	2960	3.6	27
6/12/92	80	8.6	2950	3.8	23
6/19/92	83	8.8	2230	2.2	13
6/26/92	75	7.7	1510	0.74	2.3
7/3/92	78	8.2	1420	0.75	2.3
7/10/92	80	7.8	1870	1.4	8.4
7/17/92	80	7.6	1560	0.74	1.6
7/24/92	74	8.3	1350	0.48	1.8
7/30/92	79	8.3	1430	0.47	0.9
8/7/92	78	8.3	1400	0.58	1.0
8/14/92	76	7.9	1500	0.51	0.9
8/23/92	80	7.9	1110	0.37	1.1
8/28/92	76	7.9	1260	0.42	0.8
9/4/92	71	8.0	1510	0.55	0.9
9/11/92	76	8.1	1590	0.64	0.8
9/18/92	71	7.9	1750	0.74	1.5
9/25/92	68	8.0	2020	0.81	1.2
10/2/92	68	7.6	1540	0.71	0.5
10/9/92	65	7.9	1650	0.67	0.8
10/16/92	70	8.1	2140	0.79	0.6
10/23/92	65	8.2	1800	0.70	0.7
10/29/92	62	8.1	1880	0.79	0.7
11/6/92	62	7.9	2180	1.9	9.5
11/13/92	54	8.0	2910	3.6	15
11/30/92	47		2190	0.88	0.6
12/4/92	49	8.2	1870	0.70	0.7
12/14/92	45	8.6	3030	3.9	23
12/22/92	47	8.2	3500	3.4	24
12/30/92	49		2910	1.1	1.6
1/8/93	56	7.9	3160	3.0	21
1/15/93			2870	3.4	23
1/22/93	56	8.4	2620	3.0	15
1/28/93	47	8.1	3350	4.4	31
2/4/93	52	7.5	3970	5.0	42

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
2/10/93	56		2860	3.9	23
2/19/93	55	7.3	3230	3.7	25
2/24/93	57	7.8	3270	3.9	27
3/5/93	61	7.8	3500	3.7	29
3/12/93	64	7.2	3270	3.1	24
3/18/93	65	8.0	2940	2.6	23
3/26/93	60	7.6	2150	2.2	15
4/2/93	64	7.6	2660	2.6	18
4/9/93	68	8.1	3070	2.9	21
4/16/93	64	8.1	2860	2.8	27
4/23/93	64	7.8	1670	1.3	7.9
4/30/93	72	7.9	2660	2.6	23
5/7/93	69	8.1	2550	2.4	24
5/14/93	69	7.9	2170	2.3	19
5/21/93	72	7.9	2710	2.8	21
5/28/93	70	7.7	1720	1.7	9.6
6/4/93	70	8.1	1950	2.1	14
6/11/93	72	8.0	2550	3.0	20
6/18/93	76	8.2	2800	3.3	27
6/25/93	80	7.4	2210	2.5	17
7/2/93	80	7.5	2270	2.6	22
7/9/93	77	8.3	2450	2.9	23
7/16/93	73	8.6	1890	2.1	19
7/23/93	76	7.9	1900	2.1	17
7/30/93	76	7.6	1900	2.4	17
8/6/93	80	7.9	1910	2.4	18
8/12/93	78	5.9	1820	2.1	16
8/20/93	72	7.4	1680	2.1	15
8/27/93	76	7.5	1880		22
9/3/93	81	7.7	1560	1.5	11
9/10/93	80	7.5	1760	2.1	16
9/17/93	68	7.9	1820	1.7	11
9/24/93	70	7.9	905	0.51	1.6
10/1/93	77	7.6	1040	0.68	1.4
10/8/93	69	8.0	1220	0.64	1.2
10/15/93	68	7.9	1450	1.2	2.7
10/21/93		8.0	1670	1.6	5.8
10/29/93	64	7.5	1780	1.8	7.8
11/5/93	60	7.4	1700	1.6	8.8
11/12/93	59	6.8	1580	1.4	7.0
11/22/93	54	7.6	1870	1.7	9.2
11/30/93	55	7.7	1870	1.7	11
12/3/93	52	7.8	2020	1.8	12
12/10/93	55	6.9	1960	2.0	9.3
12/17/93		7.8	1720	1.6	9.9
12/28/93	47	7.5	2390	2.4	12
1/7/94	46	7.9	2510	2.5	13
1/13/94	50	7.9	2970	3.3	21
1/21/94	54	7.0	2680	2.8	18
1/27/94	52	7.6	2480	2.5	17
2/3/94	50	8.0	2750	2.6	22
2/11/94	53	7.8	2560	2.5	20
2/17/94	52	6.6	2830	3.0	29
2/23/94	54	7.3	2290	2.5	22
3/4/94	62	7.3	2640	2.4	23
3/9/94	60	7.6	2690	2.6	26
3/16/94	64	7.5	2780	2.8	20
3/23/94	57	7.6	2840	2.8	27

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
3/31/94	69	7.7	2750	3.2	25
4/6/94		7.6	2820	2.7	22
4/15/94	72	7.8	2590	2.2	19
4/21/94	70	7.3	2620	2.4	20
4/27/94	61	7.8	3000	2.8	30
5/4/94	71	7.9	3220	2.8	32
5/10/94	80	7.8	2600	2.5	25
5/16/94	66	8.2	3740	4.1	44
5/25/94	74	6.8	3110	3.8	31
6/1/94	79	7.8	2430	2.7	26
6/8/94	65	8.1	3110	3.8	29
6/15/94	72	8.1	3470	4.7	33
6/21/94	73	7.4	2730	3.0	27
6/29/94	79	7.8	2860	3.6	33
7/6/94	78	7.8	2660	2.4	31
7/13/94	80	8.0	3150	3.1	42
7/21/94	80	7.9	2330	2.9	22
7/27/94	71	7.5	1950	2.0	15
8/3/94	76	8.2	2220	2.4	19
8/10/94	77	7.9	2410	2.7	27
8/16/94	79	7.9	2650	3.4	24
8/24/94	76	7.6	2380	3.0	20
8/31/94	82	8.5	2040	2.0	13
9/7/94	76	8.1	1920	1.6	15
9/14/94	74	8.2	2130	2.0	16
9/22/94	74	7.7	2330	2.0	19
9/29/94	72	7.7	2100	1.8	16
10/7/94	66	7.8	1660	0.70	1.1
10/12/94	60	8.0	1960	0.90	0.8
10/20/94	65	7.8	1780	1.1	6.5
10/27/94	63	7.6	2040	1.6	15
11/8/94	52	8.0	2090	1.7	9.1
11/10/94	54	8.1	2470	2.0	13
11/18/94	52	7.8	2540	2.0	11
11/22/94		8.0	2690	2.2	14
12/1/94	47		1820	1.1	1.7
12/9/94	45		2510	2.2	14
12/15/94	48		2760	2.4	17
12/21/94	49		2790	2.4	11
12/29/94	48	7.4	2440	2.1	12
1/5/95	50	7.5	2490	2.2	14
1/12/95	55	7.5	2180	2.2	10
1/19/95	49	7.5	2550	2.7	10
1/26/95	53	8.6	2400	2.5	17
2/3/95	58	8.0	2930	3.2	23
2/9/95	58	8.0	3350	3.9	30
2/17/95	56	7.7	3500	4.0	37
2/23/95	61	7.8	3550	3.9	38
3/9/95	58	8.0	3070	3.2	30
3/23/95	57	6.9	2380	3.0	24
3/29/95	68	8.1	2990	3.0	23
4/5/95				3.3	21
4/13/95	66	7.7	2590	2.6	24
4/21/95	62	8.1	2310	2.3	26
4/26/95	68	7.4	2510	2.5	26
5/3/95	61	8.0	1820	1.8	16
5/12/95	66	7.9	1910	2.1	18
5/17/95	72	7.6	1500	1.8	16

Table-D5 Salt Slough at Lander Avenue (State Highway 165) (MER531) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/26/95	70	7.7	1610	1.6	19
6/2/95	70	7.5	1940	1.9	20
6/9/95	70	7.6	1690	1.8	17
6/16/95	66	7.3	2000	2.3	18
6/23/95	80	8.0	1830	2.2	18
6/28/95	80	7.8	2070	2.4	20
7/6/95	78	8.0	2100	2.0	19
7/13/95	76	7.5	1670	1.8	20
7/20/95	79	7.8	1610	1.9	16
7/27/95	86	7.8	1750	2.2	17
8/10/95	82	8.0	1790	1.9	19
8/17/95	75	8.1	1720	1.8	17
8/24/95	82	7.9	1600	1.5	15
8/31/95	74	7.8	1460	2.3	33
9/7/95	78	8.4	2070	2.3	22
9/15/95	77	8.1	1520	1.4	14
9/22/95	78	7.7	1450	1.4	12
9/28/95	74	7.6	1490	1.3	13
Count	427	422	472	475	476
Min	38	5.9	780	0.3	1
Max	88	9.9	4050	5.0	44
Mean	66	7.8	2220	2.1	15
Geo Mean	65	7.8	2110	1.8	11
Median	68	7.8	2150	2.1	15

Table-D6 Salt Slough @ Wolfsen Road (San Luis Ranch)-(MER530)

Location: Latitude 37° 09' 33" Longitude 120° 48' 40". In SE 1/4, SW 1/4, SW 1/4, Sec.7.,T9S, R11E.
Located 6.5 mi. north of Los Banos.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85		7.9	1650	1.2	7
6/3/85			1200	1.1	4
6/14/85		7.5	1450	1.1	6
7/2/85		7.7	1200	1.1	6
8/15/85			1350	1.0	6
8/29/85		7.8	1100	0.88	4
9/28/85			1100	0.52	<1
10/31/85		7.9	1550	1.3	4
12/7/85		8	2650	2.6	12
1/4/86		8.2	3300	4.1	22
1/14/86			3000	3.7	13
2/7/86		7.7	3000	4.1	26
3/1/86		8.2	2400	2.8	16
4/2/86					12
4/19/86			1300	1.5	8
4/26/86		7.8	1200	1.1	7
6/3/86		7.8	730	0.45	1.3
6/26/86		7.6	1250	0.97	2.3
8/4/86		8.8	980	0.91	5.3
9/2/86			1300	1.3	7.7
9/27/86		7.8	1000	0.84	
11/3/86				1.2	10
12/4/86		7.6		2.1	24
1/2/87		8.0	2400	2.4	18
1/30/87		7.7	2600	3.2	23
2/27/87		7.7	3050	3.9	31
4/1/87		7.6	2310	2.2	17
5/1/87		8.1	1730	1.8	15
6/1/87		7.2	1560	1.6	10
7/1/87			1900	2.3	12
7/31/87		7.2	1600	1.5	10
9/1/87			1330	0.81	4.6
10/1/87	73	7.6	1770	1.5	1.0
11/3/87	61	8.2	1900	2.0	
12/1/87	56	7.6	2900	2.9	1.0
1/5/88	54	7.8	3700	3.6	2.0
1/27/88	52	7.8	3650	3.9	3.0
3/9/88	60		2350	2.3	2.0
3/30/88	60	7.9	2550	2.8	2.0
5/5/88	60	7.8	2300	2.5	1.0
6/1/88	72	7.6	1500	1.3	
6/29/88	69	7.7	1950	1.9	1.0
8/1/88	79	7.9	1800	1.6	1.0
9/1/88	82		2000	1.9	1.0
Count	12	32	41	43	41
Min	52	7.2	730	0.45	1.0
Max	82	8.8	3700	4.1	31
Mean	65	7.8	1940	1.9	8.8
Geo Mean	64	7.8	1797	1.7	5.2
Median	60.5	7.8	1770	1.6	6.0

Table-D7 City Ditch (San Luis Wasteway to Mud Slough) (MER543)
Location: Latitude 37°07' 44" Longitude 120° 48' 53". In SW 1/4, SW 1/4, SW 1/4, Sec. 29, T.9S., R.11E. 2.2 miles north of Los Banos Wildlife Refuge Office.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/2/85		8.2	2900	4.4	30
6/3/85			2200	3.2	16
7/2/85		8.0	2100	3.1	24
8/15/85			2000	2.8	16
8/29/85		8.0	2000	3.0	18
10/31/85		8.3	1880	2.7	12
12/7/85		8.0	3200	5.1	27
1/4/86		8.6	4100	6.9	42
1/14/86		7.8	3200	4.5	23
2/17/86		7.9	3100	4.5	32
3/2/86		8.4	3000	4.6	34
4/2/86					27
4/3/86					31
4/19/86			2600	3.9	32
4/26/86		8.2	2600	4.3	33
5/13/86			2200	3.1	27
8/5/86		8.4	2000	3.2	25
9/2/86			1900	2.7	22
9/27/86		8.4	520	0.69	
12/4/86		8.1		3.4	41
1/2/87		8.4	2800	3.8	35
2/27/87		8.0	3720	6.1	50
4/1/87		7.8	3420	5.1	47
9/1/87			2480	3.7	29
3/9/88	61		3400	4.7	43
3/30/88	60	7.9	3300	4.4	41
6/1/88	73	7.8	2500	3.6	24
6/29/88	68	8.0	3250	4.4	36
5/21/91	68	7.9	4410	6.1	61
5/23/91	74	8.3	4650	7.6	63
5/25/91	78	7.8	4020	6.1	58
5/28/91	66	7.8	4430	6.3	69
5/30/91	70	9.2	4720	6.6	71
6/1/91	70	7.7	4750	4.8	68
6/3/91	66	7.5	4380	4.7	56
6/5/91	78	8.0	1160	0.9	3.5
6/7/91	78	7.6	1120	0.8	2.8
6/10/91	80	7.6	4340	6.1	46
6/12/91	78	8.0	3780	5.3	41
6/14/91	64	6.9	3740	5.4	38
6/17/91	76	7.7	3760	5.2	46
6/19/91	64	6.7	4080	5.6	47
6/21/91	74	7.6	3700	4.4	40
6/24/91	68	8.0	3870	6.1	34
6/26/91	80	7.9	4180	6.1	42
6/28/91	70	7.4	3910	6.8	46
7/1/91	82	8.2	4090	5.8	44
7/3/91	80	7.8	4070	6.2	45
7/5/91	86	7.6	4230	6.6	49
7/8/91	74	6.6	4240	6.6	41
7/10/91	74	7.4	3820	5.8	38
7/12/91	82	7.9	3890	1.2	47
7/15/91	72	7.5	4200	6.4	53
7/17/91	70	7.1	4030	6.6	46
7/19/91	74	7.9	3790	5.9	41

Table-D7 City Ditch (San Luis Wasteway to Mud Slough) (MER543) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/22/91	80	7.5	4120	6.2	59
7/24/91	86		3880	5.7	55
7/26/91	80		4130	6.2	57
7/29/91	76		3660	5.7	34
7/31/91	82		3280	4.3	31
8/2/91	73	8.3	2880	5.5	30
8/5/91	74	8.3	2520	3.4	24
8/7/91	82	8.1	3000	4.1	33
8/9/91	78	9.2	3150	4.8	34
8/12/91	76	7.6	3560	5.0	38
8/14/91	84	7.7	3450	5.5	41
8/16/91	74		3460	5.4	41
8/19/91	75	8.4	3360	4.8	33
8/21/91	75		3330	5.8	29
8/23/91	72		3280	4.6	30
8/26/91	70	7.5	2970	4.0	28
8/28/91	72	8.3	3270	4.9	28
8/30/91	80	7.7	3520	5.2	37
9/7/91	78	7.8	3110	4.7	31
9/10/91	72	7.7	3660	5.6	52
9/14/91	74	7.8	3320	4.7	41
9/17/91	74	8.1	3550	5.1	46
9/21/91	74	8.1	3550	5.1	46
9/23/91	82	7.5	4410	6.8	70
9/27/91	74	7.6	4190	6.4	55
9/30/91	76	7.7	810	0.4	2.7
10/4/91	82	8.1	4360	6.6	63
10/7/91	68	7.5	930	0.54	3.7
10/18/91	68	8.0	1480	1.6	9.4
10/25/91		8.5	910	0.90	5.5
11/1/91	59	8.0	2200	2.6	19
11/8/91			2280	2.7	27
11/15/91	59		2730	3.7	27
11/25/91	54	8.1	2840	3.6	15
12/6/91	43	8.3	2690	3.3	9.1
12/13/91	47	8.3	3360	4.6	15
12/20/91		8.3	2910	3.5	21
12/26/91	44	8.4	3700	5.2	34
1/10/92	48	8.0	3650	5.4	28
1/17/92	45	8.5	3640	4.9	28
1/24/92		8.2	4100	6.1	39
1/31/92	50	8.1	4180	6.2	46
2/14/92	58	7.9	3660	5.0	35
2/21/92	59	8.0	3910	5.4	36
3/6/92	58	8.2	4010	6.2	47
3/13/92	63	8.1	4420	6.8	54
3/20/92	59	7.6	4630	6.7	54
3/26/92	62	7.9	3010	4.3	26
3/30/92	64	8.2	3510	5.5	40
4/2/92	65	8.0	3970	5.7	44
4/6/92	65	8.0	3970	5.7	44
4/9/92	63	8.2	4110	5.6	52
4/16/92	64	8.3	3750	5.9	46
4/23/92	63	8.3	3140	4.2	51
4/30/92	72	8.3	4140	6.0	66
5/7/92	74	8.4	4310	5.2	69
5/15/92	77	8.6	4410	5.5	64
5/21/92		8.3	3910	4.9	46

Table-D7 City Ditch (San Luis Wasteway to Mud Slough) (MER543) continued:

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
5/28/92	80	8.4	4650	7.8	
5/29/92	74	8.5	4610	7.0	68
6/5/92	85	8.3	1430	1.6	7.7
6/12/92	84	8.0	2620	3.5	17
6/19/92	82	8.6	4000	6.3	50
6/26/92	79	8.5	4330	6.4	62
10/30/92	62	8.2	1770	2.2	6.3
Count	91	102	117	118	118
Min	43	6.6	520	0.40	2.7
Max	86	9.2	4750	7.8	71
Mean	71	8.0	3350	4.8	38
Geo Mean	70	8.0	3150	4.3	32
Median	74	8.0	3550	5.1	38

Table-D8 San Luis Drain at Highway 152 (MER534)

Location: Latitude 37 3' 30", Longitude 120 47' 16". In Section 17, T.10S, R.11E
Located at the SW corner of Hwy 152 and Santa Fe Grade

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
7/9/93	79	7.2	6450	11	1.6
8/13/93	70	7.7	7590	12	1.9
8/20/93	70	7.5	7840	14	1.9
8/26/93	79	7.4	8040		2.3
9/3/93	84	7.5	8340	14	3.1
9/10/93	75	7.4	8490	15	1.8
9/17/93	67	7.9	8880	15	2.9
9/23/93	72	7.4	9070	16	1.9
10/1/93	75	7.3	9250	16	2.4
10/8/93	69	8.2	9120	17	2.3
10/8/93	69	8.2	9130	16	2.7
10/15/93	66	8.1	8720	15	3.1
10/21/93	70	8.2	8180	14	2.1
10/28/93	64	8.1	7780	14	1.7
11/28/93	58	8.2	5990	10	2.0
12/28/93	47	7.9	5900	11	2.0
1/28/94	50	7.8	5570	10	1.7
2/25/94	56	8.1	5770	8.2	1.8
4/1/94	64	8.1	5260	9.1	1.7
4/27/94	62	8.1	5660	9.7	1.5
5/25/94	74	8.1	5350	11	1.7
6/29/94	78	7.9	8090	15	1.4
7/27/94	78	8.3	7470	14	4.4
8/31/94	73	7.7	1244	27	1.3
9/29/94	74	8.0	10450	20	
9/29/94	74	8.0	10480	19	6.4
10/27/94	61	7.9	9680	18	9.1
11/22/94		8.3	8810	16	6.3
12/29/94	50	8.2	7780	15	3.7
1/26/95	53	8.3	5640	9.6	1.1
2/23/95	59	7.8	5030	8.3	1.3
Count	30	31.0	31	30	30
Min	47	7.2	1244	8.2	1.1
Max	84	8.3	10480	27	9.1
Mean	67	7.9	7453	14	2.7
Geo Mean	67	7.9	7066	13	2.3
Median	70	8.0	7840	14	2.0

Table-D9 Mud Slough (north) Upstream of San Luis Drain Terminus-(MER536)
Location: Latitude 37°12', Longitude 120°54'. In NW 1/4, NE 1/4, NW 1/4, NE corner of Sec. 18, T.8S., R.10E 5.0 miles east of Gustine, 3.5 miles SE of Highway 140. Located within Kesterson N. W. R.

Date	Temp °F	pH	EC µmhos/cm	B mg/L	Se µg/L
8/20/93	69	7.5	1190	0.99	1.7
9/10/93	84	7.7	1770	1.4	0.9
9/17/93	67	8.2	1450	1.4	7.5
9/24/93	71	8.0	1590	1.0	0.7
10/1/93	79	7.4	1290	0.92	1.5
10/8/93	71	8.1	1280	0.94	1.7
10/15/93	68	7.7	1030	0.73	0.8
10/21/93		7.6	824	0.57	0.4
10/29/93	65	7.5	829	0.59	0.5
11/30/93	53	7.9	1190	0.90	<0.4
12/28/93	47	7.8	1380	0.96	0.5
1/28/94	50	7.8	1730	1.5	2.7
2/25/94	60	8.0	1530	1.2	1.0
4/1/94	70	7.9	3590	3.1	1.0
4/27/94	59	8.5	2610	2.4	1.1
5/25/94	82	8.3	4040	3.6	0.8
6/29/94	84	7.9	3840	3.1	1.4
7/27/94	84	9.0	2630	1.6	1.0
8/31/94		8.3	2460	1.7	1.8
9/29/94	78	7.8	1890	1.2	0.6
10/27/94	64	7.7	1320	0.87	0.5
11/22/94		8.1	1670	1.1	0.5
12/29/94	46	7.4	1690	1.1	0.6
1/26/95	52	8.8	1000	0.89	0.7
2/23/95	59	7.9	2220	1.7	0.5
Count	22	25	25	25	25
Min	46	7.4	824	0.57	0.4
Max	84	9.0	4040	3.6	7.5
Mean	66	8.0	1840	1.4	1.2
Geo Mean	65	7.9	1670	1.3	0.9
Median	68	7.9	1590	1.1	0.8