

Appendix B

Selenium Uptake, Flow, and X2 (Isohaline) Data

Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
01-Nov-01						16.0
27-Nov-01	71	9.970	0.318	0.004	16.0	
27-Nov-01	58	11.600	0.388	0.007	16.0	
01-Dec-01						13.1
18-Dec-01	85	10.000	0.322	0.004	14.0	
18-Dec-01	73	11.820	0.435	0.006	12.0	
01-Jan-02						
01-Feb-02						
01-Mar-02						7.9
23-Mar-02	56	9.970	0.358	0.006	8.0	
23-Mar-02	6	19.980	0.268	0.045	6.6	
01-Apr-02						
01-May-02						5.0
08-May-02	74	8.550	0.408	0.006	5.0	
08-May-02	45	9.490	0.332	0.007	5.0	
01-Jun-02						5.8
05-Jun-02	50	9.510	0.218	0.004	6.0	
05-Jun-02	38	10.460	0.221	0.006	5.9	
05-Jun-02	34	11.440	0.256	0.008	5.3	
01-Jul-02						13.0
17-Jul-02	35	10.580	0.177	0.005	13.0	
17-Jul-02	28	11.410	0.177	0.006	13.0	
17-Jul-02	21	12.450	0.172	0.008	13.0	

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Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
01-Aug-02						11.3
22-Aug-02	32	11.400	0.257	0.008	11.0	
22-Aug-02	19	13.530	0.211	0.011	12.0	
22-Aug-02	17	14.450	0.228	0.013	11.0	
01-Sep-02						10.4
11-Sep-02	21	13.490	0.269	0.013	10.2	
11-Sep-02	14	15.580	0.250	0.018	10.8	
11-Sep-02	10	17.350	0.245	0.024	10.4	
01-Oct-02						9.7
09-Oct-02	21	12.450	0.253	0.011	10.1	
09-Oct-02	18	13.570	0.209	0.012	10.1	
09-Oct-02	17	14.440	0.220	0.013	8.9	
01-Nov-02						10.6
14-Nov-02	28	14.990	0.459	0.016	11.0	
14-Nov-02	20	16.970	0.377	0.019	10.0	
01-Dec-02						10.5
11-Dec-02	12	17.550	0.315	0.026	11.0	
11-Dec-02	7	19.180	0.221	0.032	10.0	
11-Dec-02	6	20.470	0.227	0.038	10.0	
01-Jan-03						8.4
08-Jan-03	18	13.800	0.223	0.012	8.9	
08-Jan-03	10	17.600	0.228	0.023	7.9	
08-Jan-03	6	20.290	0.190	0.032	7.8	
01-Feb-03						7.9
20-Feb-03	6	16.500	0.098	0.016	7.8	

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Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
20-Feb-03	6	17.440	0.107	0.018	8.0	
20-Feb-03	6	19.270	0.145	0.024	7.9	
01-Mar-03						7.2
19-Mar-03	33	10.980	0.225	0.007	7.6	
19-Mar-03	10	16.400	0.207	0.021	6.0	
19-Mar-03	4	19.390	0.111	0.028	7.0	
01-Apr-03						
01-May-03						
01-Jun-03						
01-Jul-03						6.5
16-Jul-03	35	11.490	0.234	0.007	6.2	
16-Jul-03	20	12.530	0.180	0.009	6.7	
16-Jul-03	15	13.550	0.179	0.012	6.7	
01-Aug-03						6.3
13-Aug-03	22	11.520	0.179	0.008	6.2	
13-Aug-03	26	12.560	0.268	0.010	6.4	
13-Aug-03	22	13.520	0.247	0.011	6.2	
01-Sep-03						7.5
10-Sep-03	21	12.550	0.219	0.010	7.5	
10-Sep-03	17	13.560	0.222	0.013	7.7	
10-Sep-03	10	17.510	0.243	0.024	7.3	
01-Oct-03						8.0
16-Oct-03	14	16.520	0.300	0.021	8.0	
16-Oct-03	10	17.370	0.242	0.024	8.4	
16-Oct-03	5	20.380	0.216	0.043	7.1	

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Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
01-Nov-03						10.1
19-Nov-03	47	10.500	0.244	0.005	10.7	
19-Nov-03	37	11.380	0.245	0.007	9.7	
19-Nov-03	7	16.590	0.178	0.025	7.7	
01-Dec-03						7.9
17-Dec-03	8	15.450	0.161	0.020	7.9	
17-Dec-03	10	17.680	0.270	0.027	7.9	
17-Dec-03	10	18.510	0.289	0.029	7.8	
01-Jan-04						6.9
13-Jan-04	22	17.350	0.151	0.007	7.1	
13-Jan-04	13	12.450	0.205	0.016	6.2	
13-Jan-04	15	13.570	0.318	0.021	7.1	
01-Feb-04						6.7
11-Feb-04	35	14.440	0.234	0.007	6.8	
11-Feb-04	19	14.990	0.223	0.012	6.4	
11-Feb-04	10	16.970	0.203	0.020	6.7	
01-Mar-04						5.5
10-Mar-04	47	17.550	0.299	0.006	5.5	
10-Mar-04	33	19.180	0.262	0.008	5.5	
01-Apr-04						4.2
21-Apr-04	49	20.470	0.377	0.008	4.4	
21-Apr-04	44	13.800	0.539	0.012	3.9	
21-Apr-04	14	17.600	0.404	0.029	4.8	
01-May-04						4.9
19-May-04	83	20.290	0.423	0.005	4.8	

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Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
19-May-04	45	16.500	0.345	0.008	4.9	
19-May-04	23	17.440	0.321	0.014	5.1	
01-Jun-04						8.5
23-Jun-04	63	19.270	0.337	0.005	9.1	
23-Jun-04	34	10.980	0.251	0.007	8.2	
23-Jun-04	27	16.400	0.248	0.009	8.7	
23-Jun-04	21	19.390	0.230	0.011	7.8	
23-Jun-04	17	11.490	0.252	0.015	7.8	
01-Jul-04						8.6
27-Jul-04	28	12.530	0.207	0.007	8.3	
27-Jul-04	27	13.550	0.243	0.009	9.3	
27-Jul-04	17	11.520	0.222	0.013	7.9	
01-Aug-04						8.8
25-Aug-04	29	12.560	0.211	0.007	8.2	
25-Aug-04	27	13.520	0.237	0.009	9.5	
25-Aug-04	31	12.550	0.339	0.011	8.7	
01-Sep-04						7.2
15-Sep-04	19	13.560	0.248	0.013	7.3	
15-Sep-04	11	17.510	0.207	0.019	7.3	
15-Sep-04	7	16.520	0.162	0.023	6.8	
01-Oct-04						
01-Nov-04						6.5
04-Nov-04	17	17.370	0.249	0.015	6.8	
04-Nov-04	11	20.380	0.248	0.023	6.7	
04-Nov-04	8	10.500	0.239	0.030	5.6	

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Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
01-Dec-04						8.1
14-Dec-04	13	11.380	0.195	0.015	8.0	
14-Dec-04	11	16.590	0.179	0.016	8.3	
14-Dec-04	9	15.450	0.175	0.019	7.9	
01-Jan-05						6.2
12-Jan-05	14	17.680	0.221	0.016	6.4	
12-Jan-05	11	18.510	0.208	0.019	6.3	
12-Jan-05	8	17.410	0.187	0.023	5.6	
01-Feb-05						6.4
24-Feb-05	24	13.250	0.221	0.009	6.3	
24-Feb-05	14	15.570	0.200	0.014	7.0	
24-Feb-05	15	16.790	0.266	0.018	6.1	
01-Mar-05						5.2
23-Mar-05	25	12.370	0.220	0.009	5.0	
23-Mar-05	10	15.910	0.156	0.016	5.6	
23-Mar-05	6	17.880	0.133	0.022	5.7	
01-Apr-05						5.1
13-Apr-05	28	11.940	0.272	0.010	5.1	
13-Apr-05	18	15.390	0.307	0.017	5.2	
13-Apr-05	11	16.270	0.281	0.026	4.7	
01-May-05						3.3
11-May-05	70	5.500	0.388	0.006	3.3	
11-May-05	50	9.510	0.379	0.008	3.1	
11-May-05	37	10.450	0.359	0.010	3.4	
01-Jun-05						3.9

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Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
22-Jun-05	75	9.190	0.382	0.005	3.8	
22-Jun-05	40	10.960	0.348	0.009	4.0	
22-Jun-05	20	13.020	0.268	0.013	4.1	
01-Jul-05						
01-Aug-05						7.4
10-Aug-05	34	12.100	0.326	0.010	7.8	
10-Aug-05	21	14.150	0.301	0.014	7.2	
10-Aug-05	9	17.770	0.246	0.027	6.7	
01-Sep-05						7.8
08-Sep-05	21	14.020	0.355	0.017	7.7	
08-Sep-05	14	15.490	0.287	0.021	8.2	
08-Sep-05	9	17.710	0.266	0.030	7.2	
01-Oct-05						7.3
13-Oct-05	15	14.090	0.258	0.017	7.7	
13-Oct-05	10	16.390	0.226	0.023	7.2	
13-Oct-05	8	17.570	0.210	0.026	6.8	
01-Nov-05						7.6
09-Nov-05	19	14.380	0.351	0.018	7.8	
09-Nov-05	10	17.510	0.266	0.027	7.5	
09-Nov-05	7	18.960	0.244	0.035	7.0	
01-Dec-05						7.9
08-Dec-05	16	16.190	0.360	0.022	8.3	
08-Dec-05	10	17.430	0.264	0.026	7.6	
08-Dec-05	8	18.470	0.242	0.030	7.6	
01-Jan-06						6.3

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Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
11-Jan-06	22	11.220	0.146	0.007	6.5	
11-Jan-06	11	16.480	0.235	0.021	6.1	
11-Jan-06	6	18.480	0.159	0.026	6.1	
01-Feb-06						5.0
15-Feb-06	46	10.180	0.258	0.006	4.9	
15-Feb-06	24	13.190	0.291	0.012	5.3	
15-Feb-06	8	17.460	0.201	0.025	4.2	
01-Mar-06						3.9
16-Mar-06	32	10.930	0.302	0.009	3.9	
16-Mar-06	8	16.940	0.223	0.028	3.7	
16-Mar-06	5	19.560	0.218	0.044	3.9	
01-Apr-06						
01-May-06						2.8
10-May-06	45	9.080	0.273	0.006	2.9	
10-May-06	21	11.590	0.287	0.014	2.9	
10-May-06	8	13.680	0.185	0.023	2.0	
01-Jun-06						
01-Jul-06						
01-Aug-06						4.7
16-Aug-06	14	13.570	0.285	0.020	4.4	
16-Aug-06	9	16.570	0.243	0.027	4.9	
16-Aug-06	7	17.470	0.215	0.031	5.0	
01-Sep-06						6.2
13-Sep-06	43	9.940	0.258	0.006	6.2	
13-Sep-06	14	15.500	0.233	0.017	6.0	

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Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
13-Sep-06	10	17.340	0.221	0.220	6.3	
01-Oct-06						5.7
18-Oct-06	10	14.560	0.146	0.015	5.9	
18-Oct-06	7	17.320	0.159	0.023	5.8	
18-Oct-06	6	18.250	0.171	0.029	5.4	
01-Nov-06						6.9
15-Nov-06	21	12.800	0.202	0.010	7.4	
15-Nov-06	10	17.580	0.222	0.022	6.3	
15-Nov-06	8	18.620	0.218	0.027	6.2	
01-Dec-06						6.3
13-Dec-06	44	10.660	0.269	0.006	6.3	
13-Dec-06	13	15.230	0.236	0.018	6.5	
13-Dec-06	10	17.420	0.243	0.024	6.1	
01-Jan-07						7.7
10-Jan-07	58	9.010	0.225	0.004	8.2	
10-Jan-07	17	12.830	0.190	0.011	6.7	
10-Jan-07	9	16.710	0.199	0.022	6.3	
01-Feb-07						7.9
07-Feb-07	46	9.040	0.168	0.004	8.0	
07-Feb-07	22	11.360	0.151	0.007	8.2	
07-Feb-07	6	17.180	0.138	0.023	6.4	
01-Mar-07						
01-Apr-07						5.6
04-Apr-07	80	8.830	0.258	0.003	5.6	
04-Apr-07	30	10.970	0.167	0.006	5.9	

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Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
04-Apr-07	12	15.620	0.189	0.016	5.3	
01-May-07						
01-Jun-07						
01-Jul-07						8.0
17-Jul-07	79	8.530	0.216	0.003	7.2	
17-Jul-07	60	9.530	0.224	0.004	8.3	
17-Jul-07	40	10.420	0.181	0.005	9.2	
01-Aug-07						9.3
21-Aug-07	81	9.280	0.300	0.004	9.8	
21-Aug-07	40	11.420	0.258	0.006	9.6	
21-Aug-07	28	12.400	0.218	0.008	7.4	
01-Sep-07						9.2
12-Sep-07	27	10.480	0.166	0.006	9.1	
12-Sep-07	28	11.460	0.204	0.007	9.4	
12-Sep-07	21	12.380	0.188	0.009	9.0	
01-Oct-07						10.0
24-Oct-07	42	10.180	0.212	0.005	10.0	
24-Oct-07	27	12.430	0.227	0.008	10.0	
24-Oct-07	13	14.510	0.167	0.013	9.9	
01-Nov-07						9.6
15-Nov-07	35	11.480	0.232	0.007	10.0	
15-Nov-07	30	12.470	0.240	0.008	10.0	
15-Nov-07	25	13.410	0.231	0.009	8.5	
01-Dec-07						11.3
12-Dec-07	48	9.860	0.223	0.005	12.0	

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Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
12-Dec-07	25	12.510	0.215	0.009	11.0	
12-Dec-07	22	13.320	0.220	0.010	10.0	
01-Jan-08						
01-Feb-08						8.3
13-Feb-08	35	10.460	0.152	0.004	8.6	
13-Feb-08	30	11.500	0.171	0.006	8.4	
13-Feb-08	21	13.370	0.180	0.009	7.5	
01-Mar-08						
01-Apr-08						
01-May-08						7.9
07-May-08	58	9.470	0.390	0.007	7.4	
07-May-08	40	10.640	0.360	0.009	8.2	
07-May-08	10	14.300	0.180	0.018	9.2	
01-Jun-08						12.6
18-Jun-08	52	9.620	0.254	0.005	13.0	
18-Jun-08	31	11.820	0.261	0.008	12.0	
18-Jun-08	8	15.630	0.145	0.018	12.0	
01-Jul-08						12.0
16-Jul-08	42	10.640	0.280	0.007	12.0	
16-Jul-08	30	12.880	0.329	0.011	12.0	
16-Jul-08	18	14.180	0.267	0.015	12.0	
01-Aug-08						
01-Sep-08						10.6
17-Sep-08	75	9.930	0.452	0.006	11.0	
17-Sep-08	22	12.480	0.254	0.012	9.6	

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Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
17-Sep-08	13	15.350	0.284	0.022	10.0	
01-Oct-08						8.3
16-Oct-08	28	12.440	0.286	0.010	8.6	
16-Oct-08	17	14.730	0.306	0.018	7.9	
16-Oct-08	9	16.300	0.216	0.024	8.0	
01-Nov-08						8.8
19-Nov-08	30	12.900	0.331	0.011	8.7	
19-Nov-08	17	14.430	0.261	0.015	9.0	
19-Nov-08	11	16.400	0.257	0.023	8.5	
01-Dec-08						11.4
17-Dec-08	60	9.890	0.304	0.005	12.0	
17-Dec-08	23	13.150	0.260	0.011	10.0	
17-Dec-08	12	15.400	0.219	0.018	11.0	
01-Jan-09						11.0
14-Jan-09	62	9.430	0.204	0.003	10.0	
14-Jan-09	42	11.100	0.225	0.005	13.0	
14-Jan-09	19	14.500	0.220	0.012	10.0	
01-Feb-09						12.3
11-Feb-09	53	8.470	0.157	0.003	13.0	
11-Feb-09	37	10.380	0.179	0.005	12.0	
11-Feb-09	18	12.500	0.148	0.008	11.0	
01-Mar-09						7.2
11-Mar-09	56	9.130	0.185	0.003	7.2	
11-Mar-09	35	11.280	0.198	0.006	7.6	
11-Mar-09	14	15.080	0.191	0.014	6.5	

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Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
01-Apr-09						10.2
15-Apr-09	56	9.000	0.174	0.003	11.0	
15-Apr-09	37	10.460	0.176	0.005	9.3	
15-Apr-09	16	12.330	0.115	0.007	9.6	
01-May-09						6.6
20-May-09	53	8.590	0.199	0.004	6.4	
20-May-09	27	10.390	0.161	0.006	6.8	
20-May-09	16	12.820	0.156	0.010	6.9	
01-Jun-09						8.8
24-Jun-09	56	9.150	0.225	0.004	8.9	
24-Jun-09	40	10.530	0.232	0.006	8.7	
24-Jun-09	24	12.050	0.187	0.008	8.9	
01-Jul-09						11.1
22-Jul-09	63	9.090	0.245	0.004	11.0	
22-Jul-09	46	10.560	0.283	0.006	12.0	
22-Jul-09	27	12.220	0.234	0.009	10.0	
01-Aug-09						8.8
26-Aug-09	62	9.710	0.291	0.005	9.1	
26-Aug-09	40	11.930	0.314	0.008	8.9	
26-Aug-09	21	13.490	0.228	0.011	7.9	
01-Sep-09						8.9
23-Sep-09	32	12.030	0.253	0.008	10.0	
23-Sep-09	21	13.440	0.225	0.011	9.7	
23-Sep-09	158	14.910	0.217	0.014	8.6	
01-Oct-09						9.7

Appendix B
Selenium Uptake, Flow, and X2 (Isohaline) Data

Table B-1 Concentrations of Selenium (Se) in <i>Corbula amurensis</i> at USGS Benthic Station 4.1 near Chipps Island, Suisun Bay						
Date	Individuals in Sample	Average shell length (mm)	Total dry weight (g)	Average dry weight (g)	Se concentration (micrograms/ gram)	Weighted Monthly Average of Se in Clams (micrograms/ gram)
28-Oct-09	27	11.540	0.184	0.007	10.0	
28-Oct-09	26	13.210	0.263	0.010	9.9	
28-Oct-09	13	15.050	0.187	0.014	8.8	
01-Nov-09						9.6
17-Nov-09	52	10.770	0.288	0.006	9.9	
17-Nov-09	27	12.620	0.214	0.008	9.7	
17-Nov-09	20	13.890	0.211	0.011	8.9	
01-Dec-09						9.9
02-Dec-09	28	12.530	0.254	0.009	9.8	
02-Dec-09	21	13.500	0.229	0.011	10.0	
02-Dec-09	16	14.850	0.209	0.013	9.8	
01-Jan-10						10.6
06-Jan-10	27	12.480	0.226	0.008	11.0	
06-Jan-10	22	13.960	0.254	0.012	10.0	
06-Jan-10	10	15.470	0.147	0.015	11.0	
01-Feb-10						6.7
24-Feb-10	25	12.000	0.159	0.006	7.4	
24-Feb-10	17	13.600	0.152	0.009	6.2	
24-Feb-10	11	15.270	0.131	0.012	5.9	

Sources: Kleckner, *et al* 2010; California Water Impact Network. Months that are blank means no data were available from Kleckner's dataset, as shown in Table B-1, above.

Appendix B
Selenium Uptake, Flow, and X2 (Isohaline) Data

Table B-2 Flow, X2 and Selenium Sample Data in <i>Corbula</i> Clams, 2002-2010						
Month/ Year	Net Delta Outflow (cfs)	San Joaquin River at Jersey Point (cfs)	Sacramento River at Rio Vista (cfs)	Ratio SJR/ (SJR+SAC)	X2 (miles from Golden Gate)	Sample Weighted Average Selenium in Clam
Jan-02	38,734	38,277	2,661	0.06501	64.19	
Feb-02	12,029	18,175	1,897	0.09452	72.35	
Mar-02	16,964	21,316	2,134	0.09099	71.67	7.9
Apr-02	11,892	14,477	2,599	0.15217	73.47	
May-02	13,483	12,963	2,739	0.17443	73.87	5.0
Jun-02	7,374	13,889	1,407	0.09200	77.24	5.8
Jul-02	5,662	18,901	1,227	0.06096	81.35	13.0
Aug-02	3,768	17,020	1,116	0.06151	85.07	11.3
Sep-02	4,108	13,563	1,175	0.07973	88.06	10.4
Oct-02	4,184	9,891	1,705	0.14702	86.68	9.7
Nov-02	7,331	11,746	1,715	0.12738	84.46	10.6
Dec-02	28,885	29,130	1,988	0.06390	79.60	10.5
Jan-03	51,440	51,935	1,913	0.03552	62.53	8.4
Feb-03	29,622	36,086	1,879	0.04949	62.29	7.9
Mar-03	15,761	22,923	2,193	0.08732	68.52	7.2
Apr-03	22,029	21,587	2,668	0.10999	71.01	
May-03	41,877	40,539	2,625	0.06082	62.67	
Jun-03	11,719	22,277	2,034	0.08365	69.11	
Jul-03	9,631	22,429	1,321	0.05561	76.67	6.5
Aug-03	6,874	19,584	1,281	0.06138	78.67	6.3
Sep-03	3,447	15,347	1,308	0.07855	85.72	7.5
Oct-03	4,288	11,005	1,999	0.15373	88.29	8.0
Nov-03	6,626	12,450	1,647	0.11683	84.34	10.1
Dec-03	23,820	27,787	1,503	0.05130	76.36	7.9
Jan-04	32,104	36,768	1,792	0.04647	65.16	6.9
Feb-04	68,091	44,421	2,201	0.04722	65.61	6.7

Appendix B
Selenium Uptake, Flow, and X2 (Isohaline) Data

Table B-2 Flow, X2 and Selenium Sample Data in <i>Corbula</i> Clams, 2002-2010						
Month/ Year	Net Delta Outflow (cfs)	San Joaquin River at Jersey Point (cfs)	Sacramento River at Rio Vista (cfs)	Ratio SJR/ (SJR+SAC)	X2 (miles from Golden Gate)	Sample Weighted Average Selenium in Clam
Mar-04	56,256	46,706	3,361	0.06712	56.70	5.5
Apr-04	21,948	23,793	2,751	0.10363	64.67	4.2
May-04	12,354	12,532	2,647	0.17437	70.90	4.9
Jun-04	5,651	15,130	1,404	0.08490	81.18	8.5
Jul-04	7,317	20,442	1,147	0.05311	80.25	8.6
Aug-04	5,204	17,913	1,125	0.05911	82.22	8.8
Sep-04	4,676	14,627	1,121	0.07117	84.74	7.2
Oct-04	8,508	12,606	1,753	0.12207	84.09	
Nov-04	6,708	12,250	1,632	0.11754	80.64	6.5
Dec-04	12,449	17,745	1,578	0.08167	81.05	8.1
Jan-05	33,589	33,681	4,918	0.12742	69.54	6.2
Feb-05	24,922	24,875	5,303	0.17573	67.52	6.4
Mar-05	38,546	30,368	8,065	0.20984	64.40	5.2
Apr-05	29,876	22,133	10,061	0.31250	62.26	5.1
May-05	50,929	40,219	10,408	0.20558	62.02	3.3
Jun-05	27,838	28,653	9,922	0.25722	60.99	3.9
Jul-05	9,378	19,668	4,160	0.17460	71.92	
Aug-05	5,586	17,245	2,622	0.13196	79.93	7.4
Sep-05	6,897	17,933	2,298	0.11357	81.69	7.8
Oct-05	4,451	14,074	2,619	0.15688	83.71	7.3
Nov-05	5,006	13,387	2,038	0.13214	86.44	7.6
Dec-05	42,828	35,458	3,521	0.09034	78.80	7.9
Jan-06	145,920	66,152	13,171	0.16605	54.66	6.3
Feb-06	51,805	48,921	6,458	0.11661	55.12	5.0
Mar-06	115,393	67,413	11,705	0.14794	52.77	3.9
Apr-06	179,387	77,647	27,887	0.26425	45.97	

Appendix B
Selenium Uptake, Flow, and X2 (Isohaline) Data

Table B-2 Flow, X2 and Selenium Sample Data in <i>Corbula</i> Clams, 2002-2010						
Month/ Year	Net Delta Outflow (cfs)	San Joaquin River at Jersey Point (cfs)	Sacramento River at Rio Vista (cfs)	Ratio SJR/ (SJR+SAC)	X2 (miles from Golden Gate)	Sample Weighted Average Selenium in Clam
May-06	80,754	52,145	25,971	0.33247	48.40	2.8
Jun-06	34,332	27,210	15,670	0.36544	57.13	
Jul-06	9,300	18,587	5,547	0.22983	70.04	
Aug-06	7,227	18,865	3,697	0.16387	77.94	4.7
Sep-06	6,982	18,010	3,316	0.15549	80.33	6.2
Oct-06	3,970	11,722	3,851	0.24728	83.18	5.7
Nov-06	5,230	12,147	2,538	0.17283	86.03	6.9
Dec-06	9,019	16,952	2,354	0.12194	83.07	6.3
Jan-07	8,229	13,823	2,587	0.15766	79.01	7.7
Feb-07	21,230	22,700	2,534	0.10040	75.19	7.9
Mar-07	13,968	18,323	2,555	0.12237	71.42	
Apr-07	11,239	13,631	2,225	0.14034	75.24	5.6
May-07	9,311	9,363	2,898	0.23637	76.06	
Jun-07	7,777	12,290	1,745	0.12433	78.64	
Jul-07	5,292	19,065	1,138	0.05632	81.74	8.0
Aug-07	3,689	17,123	1,008	0.05557	86.66	9.3
Sep-07	4,486	15,197	1,014	0.06256	86.27	9.2
Oct-07	3,649	10,517	1,570	0.12986	88.61	10.0
Nov-07	4,290	10,007	1,711	0.14599	87.93	9.6
Dec-07	6,579	11,519	1,503	0.11539	86.63	11.3
Jan-08	24,549	22,471	2,319	0.09356	75.37	
Feb-08	24,104	26,286	2,369	0.08268	68.39	8.3
Mar-08	12,183	13,692	2,115	0.13383	71.30	
Apr-08	9,482	10,194	2,409	0.19113	76.57	
May-08	8,154	8,798	2,755	0.23850	77.92	7.9
Jun-08	7,254	11,304	1,033	0.08372	79.58	12.6

Appendix B
Selenium Uptake, Flow, and X2 (Isohaline) Data

Table B-2 Flow, X2 and Selenium Sample Data in <i>Corbula</i> Clams, 2002-2010						
Month/ Year	Net Delta Outflow (cfs)	San Joaquin River at Jersey Point (cfs)	Sacramento River at Rio Vista (cfs)	Ratio SJR/ (SJR+SAC)	X2 (miles from Golden Gate)	Sample Weighted Average Selenium in Clam
Jul-08	3,614	12,526	864	0.06452	84.56	12.0
Aug-08	3,031	10,823	869	0.07430	89.32	
Sep-08	4,029	10,336	902	0.08023	88.60	10.6
Oct-08	3,032	7,631	1,235	0.13927	90.00	8.3
Nov-08	5,534	9,458	1,140	0.10756	87.99	8.8
Dec-08	6,919	8,679	1,128	0.11503	85.88	11.4
Jan-09	6,034	8,870	1,105	0.11077	84.11	11.0
Feb-09	22,387	20,104	1,428	0.06630	77.36	12.3
Mar-09	19,414	22,116	1,422	0.06042	69.39	7.2
Apr-09	11,944	13,563	1,516	0.10053	74.66	10.2
May-09	15,797	16,358	2,130	0.11519	72.27	6.6
Jun-09	8,006	11,966	1,099	0.08409	76.53	8.8
Jul-09	5,151	18,616	606	0.03153	81.98	11.1
Aug-09	4,213	15,113	609	0.03872	85.38	8.8
Sep-09	3,066	11,448	948	0.07645	87.64	8.9
Oct-09	6,636	9,781	1,904	0.16296	85.54	9.7
Nov-09	5,201	9,008	1,404	0.13488	84.92	9.6
Dec-09	6,874	10,612	1,319	0.11053	83.16	9.9
Jan-10	27,303	26,809	1,955	0.06797	77.86	10.6
Feb-10	30,183	28,993	2,426	0.07721	65.58	6.7

Appendix B
Selenium Uptake, Flow, and X2 (Isohaline) Data

Table B-3 Average Subsurface Selenium Concentrations in San Joaquin River Basin, 1986-2005 and Selenium Regulation Criteria					
Year	Arithmetic Average	Geometric Mean	USEPA Se Criterion for Rivers & Streams (5 micrograms/ Liter)	State and Federal Se Criterion for Wetlands' Aquatic Life (2 micrograms/ Liter)	Recommended USGS Safe Tissue Levels for Estuary (0.5 micrograms/ Liter)
1986	0.099	0.061			
1987	0.110	0.053			
1988	0.095	0.057			
1989	0.090	0.053			
1990	0.085	0.053	0.005	0.002	0.0005
1991	0.091	0.053	0.005	0.002	0.0005
1992	0.066	0.050	0.005	0.002	0.0005
1993	0.071	0.042	0.005	0.002	0.0005
1994	0.077	0.054	0.005	0.002	0.0005
1995			0.005	0.002	0.0005
1996	0.077	0.050	0.005	0.002	0.0005
1997	0.089	0.049	0.005	0.002	0.0005
1998	0.080	0.061	0.005	0.002	0.0005
1999	0.086	0.059	0.005	0.002	0.0005
2000	0.114	0.057	0.005	0.002	0.0005
2001	0.117	0.080	0.005	0.002	0.0005
2002	0.133	0.083	0.005	0.002	0.0005
2003	0.139	0.099	0.005	0.002	0.0005
2004	0.146	0.104	0.005	0.002	0.0005
2005	0.134	0.093	0.005	0.002	0.0005

Sources: California Department of Water Resources 2010: Table 15, 29.