

Table 5A. Concentrations, standard error of means (SEM) and annual means of trace elements in the soft tissues of the clam *Macoma balthica* in 1999 at the Palo Alto mudflat.

[All units microgram per gram soft tissue dry weight. Wt. 25mm is the condition index or weight in milligrams of a 25 mm shell length clam. SEM are standard deviations of the mean from 6-14 replicate analyses of composite samples .]

Date		Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Wt. 25mm
Jan 15	mean	0.20	5.1	35	4.7	0.29	6.1	4.7	3.4	4.4	337	92
	sem	0.03	0.4	4	0.4	0.01	0.4	0.2	0.8	0.4	30	
Feb 26	mean	0.18	3.6	42	3.1		5.2		4.2	3.5	412	84
	sem	0.02	0.3	3	0.3		0.4		0.5	0.3	41	
March 22	mean	0.17	2.5	32	2.1		4.0		2.5	2.2	340	112
	sem		0.2	2	0.1		0.1		0.3	0.1	14	
April 18	mean		1.9	31	1.8	0.15	3.5	3.3	2.5	1.6	328	126
	sem		0.2	4	0.2	0.02	0.1	0.1	0.5	0.1	21	
May 19	mean		1.8	29	1.3		3.3		2.8	1.6	417	103
	sem		0.1	2	0.2		0.2		0.2	0.1	25	
June 16	mean		1.7	32	2.2		3.8		2.9	1.6	361	133
	sem		0.2	2	0.7		0.1		0.3	0.2	27	
Sept 13	mean		2.3	43	2.5	0.30	4.4	5.3	4.6	2.2	339	101
	sem		0.3	2	0.2	0.02	0.2	0.2	0.3	0.3	30	
Nov 23	mean		3.3	21	3.7		4.2		4.7	2.8	321	100
	sem		0.6	1	0.6		0.4			0.4	38	
Dec 20	mean		4.2	38	4.0	0.31	5.3	5.5	5.1	3.8	262	102
	sem					0.02		0.2			25	
Annual Mean		0.18	2.9	34	2.8	0.26	4.4	4.7	3.6	2.6	346	106
SEM		0.01	0.4	2	0.4	0.04	0.3	0.5	0.3	0.4	16	5

Table 5B. Concentrations, standard error of means (SEM) and annual means of trace elements in the soft tissues of the clam *Macoma balthica* in 2000 at the Palo Alto mudflat.

[All units microgram per gram soft tissue dry weight. Wt. 25mm is the condition index or weight in milligrams of a 25 mm shell length clam. SEM are standard deviations of the mean from 6-14 replicate analyses of composite samples.]

Date		Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Wt. 25mm
Jan 18	mean	nd	3.6	30	3.1	0.31	4.8	5.9	3.3	3.0	313	
	sem		0.3	2	0.3	0.03	0.1	0.1	0.5	0.2	21	
Feb 15	mean	0.31	3.0	37	1.2		4.5		4.0	3.0	429	99
	sem	0.66	0.0	0	0.2		3.5		0.1	0.3	20	
March 22	mean	0.43	3.6	48	1.2		5.5		5.2	3.9	490	104
	sem	0.04	0.4	5	0.1		0.5		0.9	0.5	32	
April 10	mean	0.38	3.0	21	0.9	0.36	4.0	4.9	1.9	2.9	241	164
	sem	0.02	0.2	2	0.1	0.20	0.2	0.2	0.4	0.2	12	
June 19	mean	0.14	2.0	19	0.8	0.18	3.1	3.4	1.3	1.2	207	187
	sem	0.01	0.3	3	0.1	0.01	0.2	0.1	0.2	0.1	11	
Sept 13	mean	0.22	2.7	35	1.2	0.27	4.6	3.8	2.5	1.9	195	120
	sem	0.01	0.2	1	0.1	0.02	0.2	0.5	0.3	0.1	15	
Nov 9	mean	0.40	3.1	29	1.2		4.2		2.2	2.8	148	162
	sem	0.11	0.7	5	0.2		0.6		0.3	0.5	24	
Dec 12	mean	0.30	2.2	37	1.3		4.4		3.4	2.7	212	105
	sem	0.02	0.2	2	0.1		0.2		0.6	0.2	17	
Annual mean		0.31	2.9	32	1.4	0.28	4.4	4.5	3.0	2.7	279	134
SEM		0.04	0.2	3	0.3	0.04	0.2	0.6	0.4	0.3	43	13

Table 5C. Concentrations, standard error of means (SEM) and annual means of trace elements in the soft tissues of the clam *Macoma balthica* in 2001 at the Palo Alto mudflat.

[All units microgram per gram soft tissue dry weight. Wt. 25mm is the condition index or weight in milligrams of a 25 mm shell length clam. SEM are standard deviations of the mean from 6-14 replicate analyses of composite samples.]

Date		Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Wt. 25mm
Jan 9	mean	0.32	2.6	36	1.2	0.34	4.3	6.7	3.8	3.0	279	93
	sem	0.02	0.2	1	0.1	0.04	0.2	0.5	0.6	0.2	19	
Feb 5	mean	0.31	4.0	32	1.2		4.9		3.7	3.5	350	104
	sem	0.02	0.4	3	0.1		0.3		0.6	0.3	23	
March 5	mean	0.29	4.0	32	1.3		4.8		2.6	3.4	333	98
	sem	0.02	0.3	2	0.1		0.3		0.3	0.3	14	
April 10	mean	0.24	3.0	24	1.0	0.29	4.1	4.5	1.9	2.6	306	125
	sem	0.02	0.2	4	0.1	0.03	0.4	0.4	0.3	0.2	26	
May 8	mean	0.17	1.9	21	0.7		3.1		1.5	1.5	266	146
	sem	0.01	0.2	2	0.1		0.3		0.3	0.2	13	
June 12	mean	0.14	1.5	22	1.0	0.23	2.9	3.6	1.3	1.0	229	134
	sem	0.01	0.1	1	0.1	0.01	0.1	0.2	0.1	0.1	16	
Sept 18	mean	0.26	2.4	37	1.5	0.31	5.0	3.5	3.5	2.7	247	121
	sem	0.01	0.1	1	0.1	0.03	0.1	0.2	0.2	0.1	21	
Oct 15	mean	0.21	1.7	30	1.2		4.2		3.2	1.9	197	111
	sem	0.01	0.1	3	0.0		0.1		0.4	0.1	14	
Dec 11	mean	0.34	2.7	44	1.6		6.2		5.0	3.0	273	95
	sem	0.03	0.1	3	0.1		0.5		0.4	0.2	26	
Annual mean		0.25	2.7	31	1.2	0.29	4.4	4.6	2.9	2.5	276	114
SEM		0.02	0.3	3	0.1	0.02	0.3	0.7	0.4	0.3	16	6