

Table S1. Mass fractions (ppm) of studied elements in mussel soft tissues and shells among stations.

Elements	St. 1		St. 2		St. 3	
	Soft	Shells	Soft	Shells	Soft	Shells
Na	5800	3300	5800	2910	2480	2850
Mg	2010	890	1890	1050	1360	1070
Al	193	9.3	221	7.1	61	8.9
S	1200	BDL	1100	BDL	910	BDL
Cl	5700	164	6000	149	2290	221
K	1050	BDL	1230	BDL	960	BDL
Ca	7000	380,000	7800	400,000	5200	380,000
Sc	0.168	0.0214	0.13	0.0078	0.092	0.0207
Ti	23	BDL	48	BDL	19	BDL
V	2.22	0.18	0.86	0.063	0.57	0.11
Cr	1.2	1.1	1.6	1.3	1.2	1.6
Mn	8.6	2.86	9.8	3.4	6.9	6
Fe	348	61	341	29	169	58
Co	1.29	0.055	1.03	0.051	0.54	0.069
Ni	2.4	0.38	2.9	0.27	2	0.31
Cu	9	BDL	7.7	BDL	8.05	BDL
Zn	372	2.01	490	2.19	359	2.14
As	20.7	0.23	14.5	0.21	14.1	0.16
Se	2.55	0.054	1.64	0.058	1.66	0.06
Br	219	79	251	67	144	58.6
Rb	0.9	0.13	0.85	0.098	0.45	0.18
Sr	62	1000	62	1020	47	990
Sb	0.03	0.012	0.03	0.005	0.0205	0.013
I	11.9	6.3	18.2	5.2	7.5	6.5
Cs	0.038	0.0262	0.038	0.0103	0.0229	0.0302
Ba	91	25	18	12.7	17	13.6
La	0.4	BDL	0.3	BDL	0.16	BDL
Tb	0.0104	0.0019	0.0072	0.001195	0.0043	0.0028
Ta	0.0052	BDL	0.0034	BDL	0.002	BDL
Au	0.016	BDL	0.012	BDL	0.01	BDL
Th	0.088	0.029	0.088	0.01	0.055	0.02
U	0.34	BDL	0.23	BDL	0.15	BDL

BDL—below detectable limits.

Table S2. Enrichment factors for soft tissues of mussels among studied stations

	St. 1	St. 2	St. 3
Na	46.8	60.4	36.5
Mg	10.4	12.6	12.8
Al	0.2	0.3	0.1
Cl	2450.4	3333.3	1797.7
K	3.1	4.6	5.1
Ca	33.9	48.8	45.9
Sc	1.0	1.0	1.0
Ti	0.4	1.0	0.6
V	1.3	0.7	0.6
Cr	1.0	1.8	1.9
Mn	0.8	1.2	1.1
Fe	0.6	0.7	0.5
Co	5.3	5.4	4.0
Ni	2.7	4.3	4.2
Zn	303.0	515.8	534.0
As	123.2	111.5	153.3
Se	328.9	273.3	390.9
Br	847.3	1255	1017.4
Rb	0.5	0.6	0.5
Sr	16.0	20.7	22.1
Sb	1.5	2.0	1.9
I	48.5	95.8	55.8
Cs	0.6	0.8	0.6
Ba	12.1	3.1	4.1
La	1.0	0.9	0.7
Tb	0.9	0.8	0.7
Ta	0.5	0.4	0.4
Th	0.6	0.7	0.6
U	7.1	6.2	5.7