

Table S1 Linear relationships of trace metal concentration (in $\mu\text{g g}^{-1}$) between periphyton and four macroinvertebrate families

	Leuctridae				Hydropsychidae				Lymnaeidae				Gomphidae			
	Estimate $b \pm \text{SE}$	F	P	R^2	Estimate $b \pm \text{SE}$	F	P	R^2	Estimate $b \pm \text{SE}$	F	P	R^2	Estimate $b \pm \text{SE}$	F	P	R^2
Zn	0.35 ± 0.07	26.43	0.014	0.90	0.30 ± 0.03	98.52	0.002	0.97	0.27 ± 0.07	14.76	0.162	0.94	0.25 ± 0.02	106.30	0.002	0.97
Mn	0.35 ± 0.13	7.21	0.075	0.71	0.04 ± 0.07	0.3	0.619	0.09	0.04 ± 0.01	8.37	0.212	0.89	0.34 ± 0.12	8.27	0.064	0.73
Fe	0.26 ± 0.09	8.67	0.06	0.66	0.29 ± 0.20	2.07	0.246	0.41	0.29 ± 0.28	1.05	0.492	0.54	0.36 ± 0.17	4.61	0.121	0.61
Pb	0.29 ± 0.03	72.96	0.003	0.96	0.32 ± 0.04	80.53	0.003	0.96	0.17 ± 0.05	12.62	0.175	0.93	0.25 ± 0.02	136.30	0.001	0.98
Ni	0.20 ± 0.13	2.48	0.213	0.45	0.62 ± 0.37	2.76	0.195	0.48	0.14 ± 0.48	0.08	0.821	0.08	-0.23 ± 0.32	0.51	0.526	0.15
Cr	0.12 ± 0.20	0.36	0.593	0.11	0.15 ± 0.22	0.43	0.557	0.13	0.32 ± 0.02	413.3	0.03	0.99	0.43 ± 0.09	24.49	0.016	0.89
Cd	0.43 ± 0.08	26.28	0.014	0.90	0.36 ± 0.08	21.45	0.019	0.88	0.34 ± 0.39	0.78	0.539	0.44	0.22 ± 0.05	18.0	0.02	0.86
Cu	0.39 ± 0.48	0.68	0.471	0.18	0.25 ± 0.30	0.71	0.461	0.19	0.45 ± 0.36	1.52	0.433	0.60	0.04 ± 0.55	0.01	0.942	0.002

The degrees of freedom are 3 for Leuctridae, Hydropsychidae and Gomphidae and 1 for Lymnaeidae. Variables were square root transformed. Significant results in boldface indicate that slopes are significantly different from zero ($P < 0.05$).