

Table S6. Concentrations of the Dy, Ho, Er, and Tm (expressed in mg/kg) in BCR fractions and AR eluates of the tailings sample.

Dy						
BCR step	BCR1	BCR2	BCR3	BCR4	ΣBCR	Control <i>aqua regia</i>
	Exchangeable	Reducible	Oxidisable	Residual		
Site	mg/kg					
Tailings	n.d.	0.048 ± 0.002	1.297 ± 0.001	1.002 ± 0.004	2.35	2.13
Dust	0.239 ± 0.001	0.562 ± 0.010	0.950 ± 0.032	0.766 ± 0.061	2.52	2.35
MMART0-3	n.d.	n.d.	0.803 ± 0.005	0.210 ± 0.062	1.01	0.888
MMART5-7	n.d.	n.d.	0.490 ± 0.056	0.140 ± 0.014	0.629	0.846
MSTUP0-3	n.d.	n.d.	0.316 ± 0.003	0.258 ± 0.029	0.575	0.575
Ho						
BCR step	BCR1	BCR2	BCR3	BCR4	ΣBCR	Control <i>aqua regia</i>
	Exchangeable	Reducible	Oxidisable	Residual		
Site	mg/kg					
Tailings	n.d.	n.d.	0.255 ± 0.004	0.191 ± 0.005	0.446	0.413
Dust	0.047 ± 0.003	0.118 ± 0.005	0.198 ± 0.011	0.149 ± 0.013	0.512	0.498
MMART0-3	n.d.	n.d.	0.160 ± 0.002	n.d.	0.160	0.175
MMART5-7	n.d.	n.d.	0.094 ± 0.008	n.d.	0.094	0.172
MSTUP0-3	n.d.	n.d.	0.055 ± 0.001	n.d.	0.056	0.115
Er						
BCR step	BCR1	BCR2	BCR3	BCR4	ΣBCR	Control <i>aqua regia</i>
	Exchangeable	Reducible	Oxidisable	Residual		
Site	mg/kg					
Tailings	n.d.	0.029 ± 0.003	0.723 ± 0.019	0.509 ± 0.002	1.26	1.16
Dust	0.135 ± 0.010	0.353 ± 0.023	0.554 ± 0.004	0.451 ± 0.015	1.49	1.45
MMART0-3	n.d.	n.d.	0.468 ± 0.014	0.114 ± 0.038	0.581	0.490
MMART5-7	n.d.	n.d.	0.274 ± 0.020	0.080 ± 0.002	0.354	0.477
MSTUP0-3	n.d.	n.d.	0.157 ± 0.008	0.140 ± 0.005	0.298	0.280
Tm						
BCR step	BCR1	BCR2	BCR3	BCR4	ΣBCR	Control <i>aqua regia</i>
	Exchangeable	Reducible	Oxidisable	Residual		
Site	mg/kg					
Tailings	n.d.	n.d.	0.098 ± 0.001	0.073 ± 0.000	0.171	0.159
Dust	0.010 ± 0.015	0.051 ± 0.002	0.089 ± 0.001	0.071 ± 0.003	0.221	0.219
MMART0-3	n.d.	n.d.	0.059 ± 0.002	n.d.	0.059	0.066
MMART5-7	n.d.	n.d.	0.037 ± 0.006	n.d.	0.037	0.065
MSTUP0-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

n.d. – not detected