

Table S1: Results of the ICP-MS analyses of the PTEs at initial time (0) in Genoa waters (GE-0-AQ), in commercial barriers (GE-0-PA), in barriers made only by vegetable substrate (GE-0-VE), in myco-barriers inoculated with *T. versicolor* (GE-0-TV), in myco-barriers inoculated with *T. harzianum* autochthonous strain (GE-0-TH), in myco-barriers inoculated with the strain of *P. ostreatus* (GE-0-PO). nd= not detected. PTEs concentrations in water are expressed in $\mu\text{g L}^{-1}$, in barriers in mg kg^{-1} .

	GE-0-AQ		GE-0-PA		GE-0-VE		GE-0-TV		GE-0-TH		GE-0-PO	
PTEs	Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation
Al	nd	nd	5.9	0.3	11.9	0.8	42.1	0.0	11.0	1.7	23.2	16.2
Sb	5.2	1.6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
As	3.0	0.0	0.5	0.2	0.2	0.1	nd	nd	0.2	0.1	0.2	0.1
Cd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Cr tot	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.2	0.1
Fe	20.0	10.6	4.4	0.9	26.2	3.8	9.6	0.0	18.9	2.4	42.6	24.0
Mn	nd	nd	1.5	0.1	13.1	0.7	4.5	0.0	12.1	0.7	39.4	24.9
Hg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ni	nd	nd	nd	nd	0.2	0.0	0.3	0.0	0.1	0.0	0.4	0.2
Pb	nd	nd	6.6	5.1	0.2	0.1	0.1	0.0	0.2	0.1	0.3	0.1
Cu	nd	nd	2.7	2.0	0.5	0.0	1.4	0.0	0.6	0.1	2.5	0.2
Zn	16.5	9.0	1.3	0.4	2.5	0.0	10.6	0.0	2.7	0.8	9.5	0.8