

Table S1. Basic properties of original lake sediment and compressed sediment used in the experiment.

Items	Original lake sediment	Compressed sediment
pH	7.45	7.30
SOM (g/kg)	6.63	61.52
TN (g/kg)	0.16	1.52
TP (g/kg)	0.64	6.11
TK (g/kg)	1.26	12.00
Cd (mg/kg)	3.06	9.48
Cr (mg/kg)	52.34	169.56
Pb (mg/kg)	23.98	98.31
As (mg/kg)	0.61	1.52
Hg (mg/kg)	0.33	1.24
Ni (mg/kg)	28.30	83.93

Note: SOM: soil organic matter; TN, total nitrogen; T: total phosphorus; TK: total potassium.