

Table S1. ANOVA for HMs in soil, above-ground parts and roots of plants

| Soil after phytostabilization | | | | | | | |
|--------------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------------------|-------------|----------|-----------|
| | Locality 1 (control) | Locality 2 (control) | Locality 3 (bentonite) | Locality 4 (bentonite) | d.f. | F | p |
| Mean Cu (mg/kg) | 306.4 | 392.1 | 231.3 | 301.1 | 1,2 | 2.26 | 0.28 |
| Mean Ni (mg/kg) | 110.7 | 111.9 | 85.5 | 92.4 | 1,2 | 41.26 | 0.02* |
| Mean Cd (mg/kg) | 10.8 | 10.8 | 7.8 | 8.8 | 1,2 | 24.70 | 0.04* |
| Mean Pb (mg/kg) | 10895.2 | 10494.1 | 9248.8 | 9327.3 | 1,2 | 47.37 | 0.02* |
| Mean Zn (mg/kg) | 6604.0 | 6277.6 | 4633.4 | 4076.2 | 1,2 | 41.74 | 0.01* |
| Mean Cr (mg/kg) | 335.1 | 353.1 | 294.0 | 287.5 | 1,2 | 31.25 | 0.03* |
| Above-ground parts | | | | | | | |
| | Locality 1 (control) | Locality 2 (control) | Locality 3 (bentonite) | Locality 4 (bentonite) | d.f. | F | p |
| Mean Cu (mg/kg) | 51.1 | 52.2 | 38.2 | 37.2 | 1,2 | 341.64 | 0.003** |
| Mean Ni (mg/kg) | 21.5 | 23.2 | 20.0 | 18.3 | 1,2 | 7.51 | 0.11 |
| Mean Cd (mg/kg) | 1.9 | 1.9 | 0.6 | 0.6 | 1,2 | 883.61 | 0.001** |
| Mean Pb (mg/kg) | 449.6 | 445.7 | 320.9 | 323.2 | 1,2 | 2967.9 | <0.001*** |
| Mean Zn (mg/kg) | 394.3 | 395.2 | 152.5 | 165.4 | 1,2 | 1339.2 | <0.001*** |
| Mean Cr (mg/kg) | 120.2 | 121.2 | 105.6 | 99.2 | 1,2 | 31.59 | 0.03* |
| Roots | | | | | | | |
| | Locality 1 (control) | Locality 2 (control) | Locality 3 (bentonite) | Locality 4 (bentonite) | d.f. | F | p |
| Mean Cu (mg/kg) | 232.5 | 222.5 | 276.7 | 273.2 | 1,2 | 80.74 | 0.01* |
| Mean Ni (mg/kg) | 49.6 | 41.4 | 50.2 | 51.3 | 1,2 | 1.65 | 0.33 |
| Mean Cd (mg/kg) | 4.9 | 4.9 | 6.5 | 6.5 | 1,2 | 1257.5 | <0.001*** |
| Mean Pb (mg/kg) | 2333.2 | 2755.6 | 3461.5 | 3451.2 | 1,2 | 16600 | 0.049* |
| Mean Zn (mg/kg) | 1186.6 | 1211.6 | 1217.1 | 1245.2 | 1,2 | 956.65 | 0.23 |
| Mean Cr (mg/kg) | 130.9 | 147.7 | 223.9 | 232.2 | 1,2 | 761.22 | 0.01* |

* statistically significant difference at 0.05 significance level, ** statistically significant difference at 0.01 significance level, *** statistically significant difference at 0.001 significance level; d.f. = degrees of freedom (in ANOVA analysis)