Supplementary material 3 Full results of the Linear Mixed Model

Model summary

```
## Linear mixed-effects model fit by REML
##   Data: df1
##        AIC      BIC   logLik
##   215.4278 247.8336 -95.7139
##
## Random effects:
##  Formula: ~1 | id
##         (Intercept)  Residual
## StdDev:   0.1860747 0.4221321
##
## Fixed effects:  Value ~ Group + Reference + habitat + OM + Pb + Mg
##                          Value  Std.Error DF    t-value p-value
## (Intercept)         2.3191801 0.20722247 97  11.191740  0.0000
## Groupfungi          0.5854516 0.09439161 97   6.202369  0.0000
## Groupplant          0.8862939 0.09439161 97   9.389541  0.0000
## Referencemeadow    -1.0854861 0.07707043 97 -14.084340  0.0000
## habitatpark        -0.3286527 0.25990164 13  -1.264527  0.2282
## habitatresidential -0.7685465 0.22605390 13  -3.399837  0.0047
## habitatroadside    -0.2081140 0.19616563 13  -1.060909  0.3080
## OM                 -0.0185422 0.03038123 13  -0.610318  0.5522
## Pb                  0.0007328 0.00102739 13   0.713296  0.4883
## Mg                  0.0003032 0.00017072 13   1.776046  0.0991
##  Correlation:
##                    (Intr) Grpfng Grppln Rfrncm hbttpr hbttrs hbttrd OM
## Groupfungi         -0.228
## Groupplant         -0.228  0.500
## Referencemeadow    -0.186  0.000  0.000
## habitatpark        -0.400  0.000  0.000  0.000
## habitatresidential -0.315  0.000  0.000  0.000  0.748
## habitatroadside    -0.432  0.000  0.000  0.000  0.697  0.688
## OM                 -0.091  0.000  0.000  0.000 -0.722 -0.644 -0.505
## Pb                 -0.511  0.000  0.000  0.000  0.631  0.540  0.494 -0.512
## Mg                 -0.570  0.000  0.000  0.000  0.257  0.020  0.113 -0.133
##                    Pb
## Groupfungi
## Groupplant
## Referencemeadow
## habitatpark
## habitatresidential
## habitatroadside
## OM
## Pb
## Mg                  0.330
##
```

```
## Standardized Within-Group Residuals:
##         Min          Q1         Med          Q3         Max
## -1.86073862 -0.68614071 -0.07693604  0.55511957  2.71868760
##
## Number of Observations: 120
## Number of Groups: 20
```

ANOVA table

```
##             numDF denDF   F-value p-value
## (Intercept)     1    97 1309.9838  <.0001
## Group           2    97   45.5970  <.0001
## Reference       1    97  198.3686  <.0001
## habitat         3    13    9.5723  0.0013
## OM              1    13    0.1277  0.7266
## Pb              1    13    0.0181  0.8950
## Mg              1    13    3.1543  0.0991
```

Diagnostic plots