**S2 Table.** Correlation coefficients between heavy metals and selected soil physicochemical properties.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Ti | Cu | Pb | Zn | Co | Ni | Cr | As | Al2O3 | Fe2O3 | CaO | MgO | Na2O | CEC | OM | sand | clay |
| Ti | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cu | 0.478\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pb | 0.062 | 0.755\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Zn | 0.216 | 0.882\*\* | 0.791\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Co | 0.521\*\* | 0.797\*\* | 0.414\*\* | 0.616\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Ni | 0.780\*\* | 0.735\*\* | 0.262 | 0.465\*\* | 0.830\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Cr | 0.552\*\* | 0.878\*\* | 0.531\*\* | 0.756\*\* | 0.876\*\* | 0.845\*\* | 1 |  |  |  |  |  |  |  |  |  |  |
| As | 0.393\* | 0.330\* | 0.252 | 0.287 | 0.059 | 0.212 | 0.141 | 1 |  |  |  |  |  |  |  |  |  |
| Al2O3 | 0.456\*\* | 0.068 | -0.251 | -0.135 | 0.070 | 0.416\*\* | 0.173 | 0.583\*\* | 1 |  |  |  |  |  |  |  |  |
| Fe2O3 | 0.829\*\* | 0.525\*\* | 0.035 | 0.281 | 0.626\*\* | 0.875\*\* | 0.692\*\* | 0.374\* | 0.634\*\* | 1 |  |  |  |  |  |  |  |
| CaO | -0.346\* | 0.309\* | 0.431\*\* | 0.469\*\* | 0.284 | 0.013 | 0.339\* | -0.443\*\* | -0.604\*\* | -0.198 | 1 |  |  |  |  |  |  |
| MgO | 0.585\*\* | 0.646\* | 0.293 | 0.495\*\* | 0.797\*\* | -0.804\*\* | 0.833\*\* | -0.149 | 0.001 | 0.691\*\* | 0.395\*\* | 1 |  |  |  |  |  |
| Na2O | -0.609\*\* | -0.020 | 0.280 | 0.194 | -0.055 | -0.377\* | -0.048 | -0.623\*\* | -0.845\*\* | -0.560\*\* | 0.864\*\* | 0.091 | 1 |  |  |  |  |
| CEC | 0.342\* | 0.086 | -0.108 | -0.006 | 0.204 | 0.317 | 0.172 | 0.163 | 0.261 | 0.379\* | -0.238 | 0.233 | -0.364\* | 1 |  |  |  |
| OM | 0.070 | 0.509\*\* | 0.510\*\* | 0.456\*\* | 0.611\*\* | 0.431\*\* | 0.539\*\* | 0.072 | 0.073 | 0.179 | 0.285 | 0.299 | -0.016 | 0.155 | 1 |  |  |
| sand | -0.338 | -0.186 | 0.014 | -0.157 | -0.229 | -0.258 | -0.151 | -0.248 | -0.172 | -0.175 | 0.330 | -0.045 | 0.392\* | -0.293 | -0.190 | 1 |  |
| clay | -0.056 | 0.102 | -0.035 | 0.077 | 0.181 | 0.105 | 0.178 | -0.071 | 0.094 | 0.012 | 0.032 | 0.143 | -0.002 | -0.045 | 0.201 | -0.525\*\* | 1 |

\* Significant correlation at P = 0.05.

\*\* Extremely significant correlation at P = 0.01.