|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **soil layer** | **soil properties** | **degrees of freedom** | **R2** | **exact p-value** | **fitted equation** |
| topsoil | SOC | 45 | 0.402 | < 0.0001 | y = - 0.000331x2 + 0.92x - 609 |
| topsoil | TN | 45 | 0.218 | 0.00579 | y =- 1.2e-05 x2 + 0.033x - 21 |
| topsoil | AN | 45 | 0.243 | 0.00289 | y = - 0.00101x2 + 2.76x - 1743 |
| topsoil | TP | 45 | 0.0924 | 0.131 | y = - 9.77e-07x2 + 0.00266x - 1.61 |
| topsoil | AP | 45 | 0.0114 | 0.786 | y = 1.11e-06x2 - 0.00333x + 3.5 |
| subsoil | SOC | 39 | 0.496 | <0.0001 | y = - 0.000216x2 + 0.61x - 417 |
| subsoil | TN | 39 | 0.360 | 0.000321 | y = - 9.5e-06x2+ 0.0269 x -18.3 |
| subsoil | AN | 39 | 0.342 | 0.000542 | y = - 0.00075x2 + 2.12x - 1416 |
| subsoil | TP | 39 | 0.0334 | 0.542 | y = 7.94e-08x2 - 0.000276x + 0.366 |
| subsoil | AP | 39 | 0.0758 | 0.242 | y = 0.00000298x2 - 0.00816x + 6.05 |