Supplementary Table 2 – Estimated soil characterization for PTK A site paleosol using Vertisol pedotransfer functions of Nordt and Driese (2010a).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
| **Paleosol Horizon** | **Clay****(%)** | **Clay****(%)** | **COLE****(cm cm-1)** | **BD****(g cm-3)** | **CEC****(cmolc kg-1)** | **pH****(H2O)** | **BS****(%)** | **CaCO3****(%)** | **Fed****(%)** | **ESP****(%)** | **EC****(dS m-1)** | **Org. C****(%)** | **Org. N****(%)** | **Depth** |
| **(SE)** | <5%CaO**(+ 4)** | <10%CaO**(+ 5)** | <10% CaO**(+ 0.019)** | Noncalc**.****(+ 0.1)** | <10%CaO**(+ 8)** | <30%CaO**(+ 0.6)** | <30%CaO**(+ 8)** | <30%CaO**(+ 4%)** | <30%CaO**(+ 0.4)** | <30%CaO**(+ 4)** | <30%CaO**(+ 3)** | **(+ 0.53)** | **(+ 0.04)** | **(**cm) |
|  | 46 | 47 | 0.12 | 1.13 | 43 | 8.2 | 110 | 7.6 | 4.4 | 79 | 181 | 0.64 | 0.11 | -2.5 |
|  | 47 | 48 | 0.12 | 1.17 | 43 | 8.2 | 109 | 5.6 | 2.4 | 85 | 205 | 0.63 | 0.11 | -7.5 |
|  | 48 | 49 | 0.13 | 1.21 | 44 | 7.9 | 105 | 2.0 | 1.3 | 86 | 209 | 0.53 | 0.09 | -12.5 |
|  | 48 | 48 | 0.13 | 1.21 | 44 | 7.9 | 105 | 2.1 | 1.4 | 85 | 205 | 0.55 | 0.09 | -17.5 |
|  | 47 | 48 | 0.14 | 1.22 | 44 | 7.9 | 104 | 1.6 | 1.4 | 86 | 210 | 0.59 | 0.10 | -22.5 |
|  | 45 | 46 | 0.13 | 1.21 | 43 | 8.2 | 109 | 5.8 | 1.1 | 91 | 230 | 0.50 | 0.09 | -27.5 |
|  | 45 | 47 | 0.14 | 1.23 | 44 | 8.0 | 105 | 1.1 | 1.0 | 108 | 321 | 0.42 | 0.07 | -32.5 |

(Notations: **SE** = Standard Error of Regression; **COLE** = Coefficient of Linear Extensibility; **BD** = Bulk Density; **CEC** = Cation Exchange Capacity; **BS** = Base Saturation; **Fed** = Dithionite-Citrate Extractable Iron; **ESP** = Exchangeable Sodium Percentage; **EC** = Electrical Conductivity; **Org. C** = organic Carbon; **Org. N** = organic Nitrogen).