|  | (1) | (2) | (3) | (4) | (5) | (6) |
| --- | --- | --- | --- | --- | --- | --- |
| (Intercept) | -1.01 (0.06)\*\*\* | -1.02 (0.06)\*\*\* | -1.07 (0.04)\*\*\* | -1.08 (0.05)\*\*\* | -1.04 (0.05)\*\*\* | -1.06 (0.04)\*\*\* |
| Total\_Carbon\_pct | 0.21 (0.12)+ | 0.15 (0.09) | 0.16 (0.06)\* | 0.19 (0.06)\*\* | 0.17 (0.06)\*\* | 0.16 (0.05)\*\* |
| DOM\_conc | 0.29 (0.15)+ | 0.47 (0.11)\*\*\* | 0.56 (0.08)\*\*\* | 0.52 (0.08)\*\*\* | 0.52 (0.08)\*\*\* | 0.55 (0.07)\*\*\* |
| CN\_ratio | 0.07 (0.06) | 0.09 (0.06) | 0.05 (0.05) | 0.03 (0.04) |  | 0.06 (0.04) |
| Clay\_pct | 0.09 (0.06) |  |  |  |  |  |
| Soil\_moisture | 0.01 (0.08) | 0.07 (0.07) |  |  |  |  |
| pH | -0.18 (0.09)\* | -0.10 (0.06) | -0.12 (0.06)+ |  |  | -0.07 (0.04)+ |
| Alpha\_diversity | -0.03 (0.05) | -0.01 (0.05) | -0.02 (0.04) | -0.02 (0.04) | 0.00 (0.04) | -0.04 (0.04) |
| Total\_Carbon\_pct × DOM\_conc | -0.19 (0.09)+ | -0.14 (0.08)+ | -0.16 (0.07)\* | -0.14 (0.07)\* | -0.15 (0.07)\* | -0.13 (0.06)\* |
| Total\_Carbon\_pct × CN\_ratio | -0.08 (0.09) | -0.02 (0.07) | 0.02 (0.06) | -0.05 (0.05) |  |  |
| Total\_Carbon\_pct × Clay\_pct | 0.00 (0.12) |  |  |  |  |  |
| Total\_Carbon\_pct × Soil\_moisture | -0.13 (0.09) | -0.07 (0.06) |  |  |  |  |
| Total\_Carbon\_pct × pH | -0.12 (0.13) | -0.15 (0.11) | -0.02 (0.06) |  |  |  |
| Total\_Carbon\_pct × Alpha\_diversity | 0.13 (0.08) | 0.11 (0.07) | 0.11 (0.05)\* | 0.10 (0.05)\* | 0.10 (0.05)\* | 0.11 (0.04)\* |
| DOM\_conc × CN\_ratio | -0.16 (0.16) | 0.04 (0.12) | 0.05 (0.12) | 0.12 (0.12) |  |  |
| DOM\_conc × Clay\_pct | 0.04 (0.13) |  |  |  |  |  |
| DOM\_conc × Soil\_moisture | 0.08 (0.11) | 0.00 (0.09) |  |  |  |  |
| DOM\_conc × pH | 0.06 (0.11) | -0.02 (0.10) | -0.02 (0.10) |  |  |  |
| DOM\_conc × Alpha\_diversity | -0.24 (0.13)+ | -0.29 (0.10)\*\* | -0.31 (0.06)\*\*\* | -0.29 (0.06)\*\*\* | -0.27 (0.06)\*\*\* | -0.29 (0.05)\*\*\* |
| CN\_ratio × Clay\_pct | 0.13 (0.08) |  |  |  |  |  |
| CN\_ratio × Soil\_moisture | 0.04 (0.07) | 0.06 (0.06) |  |  |  |  |
| CN\_ratio × pH | 0.03 (0.08) | 0.16 (0.05)\*\* | 0.14 (0.05)\*\* |  |  | 0.10 (0.04)\*\* |
| CN\_ratio × Alpha\_diversity | 0.09 (0.07) | 0.11 (0.06)+ | 0.10 (0.05)+ | 0.12 (0.05)\* |  | 0.14 (0.04)\*\* |
| Clay\_pct × Soil\_moisture | -0.04 (0.13) |  |  |  |  |  |
| Clay\_pct × pH | -0.16 (0.10) |  |  |  |  |  |
| Clay\_pct × Alpha\_diversity | -0.07 (0.06) |  |  |  |  |  |
| Soil\_moisture × pH | 0.10 (0.09) | 0.11 (0.08) |  |  |  |  |
| Soil\_moisture × Alpha\_diversity | 0.00 (0.07) | 0.03 (0.06) |  |  |  |  |
| pH × Alpha\_diversity | -0.10 (0.10) | -0.05 (0.08) | -0.09 (0.07) |  |  |  |
| Num.Obs. | 56 | 56 | 56 | 56 | 56 | 56 |
| R2 | 0.885 | 0.860 | 0.842 | 0.796 | 0.748 | 0.831 |
| R2 Adj. | 0.765 | 0.774 | 0.783 | 0.751 | 0.717 | 0.793 |
| AIC | 27.0 | 23.7 | 18.6 | 22.7 | 26.8 | 12.4 |
| BIC | 87.7 | 70.3 | 53.0 | 47.0 | 43.0 | 36.7 |
| Log.Lik. | 16.520 | 11.139 | 7.720 | 0.633 | -5.383 | 5.825 |
| F |  |  |  |  |  | 22.097 |