|  |  |  |  |
| --- | --- | --- | --- |
| **Response Variable** | **Model Hypothesis** | **AIC** | **Covariates Included in Models with Relative Support** |
| Bulk δ15N | **2** | **0.00** | **Bank, ln(Distance), Bank:ln(Distance), Bank:ln(Distance)2** |
|  | **2** | 0.41 | Bank, ln(Distance), Bank:ln(Distance), Bank:ln(Distance)2, [Ntot] |
| Bulk δ13C | **1** | **0.00** | **ln(Distance)** |
|  | 1 | 0.22 | Bank, ln(Distance) |
|  | 1 | 0.62 | ln(Distance), [Ntot] |
|  | 1 | 1.23 | Bank, ln(Distance), [Ntot] |
| δ15N of NH4+ | **2** | **0.00** | **Bank, ln(Distance), Bank:ln(Distance), Bank:ln(Distance)2** |
| [NH4+] | **1** | **0.00** | **Bank, ln(Distance)** |
| 1 | 0.69 | Bank, ln(Distance), Bank:ln(Distance) |
|  | 1 | 0.69 | Bank |
|  | 1 | 0.95 | Bank, GW |
|  | 1 | 1.10 | Bank, ln(Distance), GW |
|  | 1 | 1.87 | Bank, ln(Distance), Bank:ln(Distance), GW |
| [NO3-] | **1** | **0.00** | **Bank, GW** |
|  | 1 | 1.72 | Bank, ln(Distance), GW |
|  | 2 | 1.87 | Bank, ln(Distance), Bank:ln(Distance), Bank:ln(Distance)2, GW |
| Net Mineralization | **3** | **0.00** | **[NOrg]** |
|  | 3 | 0.61 | GW, [NOrg] |
|  | 1 | 0.74 | Bank, [NOrg] |
|  | 1 | 1.61 | Bank, GW, [NOrg] |
| Net Nitrification | **3** | **0.00** | **[NH4+], GW** |
|  | 1 | 1.02 | Bank, [NH4+], GW |
| [NOrg] | **1** | **0.00** | **ln(Distance), GW** |
|  | 1 | 0.22 | Bank, ln(Distance), Bank:ln(Distance), GW |
|  | 2 | 0.33 | Bank, ln(Distance), Bank:ln(Distance), Bank:ln(Distance)2, GW |
|  | 1 | 1.94 | Bank, ln(Distance), GW |
| Gravimetric Water Content (GW) | **1** | **0.00** | **ln(Distance), Bank** |
|  | 1 | 1.00 | ln(Distance) |
|  | 1 | 1.80 | Bank, ln(Distance), Bank:ln(Distance) |
| **Percent C** | **1** | **0.00** | **Bank, GW** |
|  | 3 | 0.06 | GW |
|  | 1 | 0.73 | Bank, ln(Distance), Bank:ln(Distance), GW |
|  | 1 | 1.10 | Ln(Distance), GW |
|  | 1 | 1.30 | Bank, ln(Distance), GW |
| **Percent Nitrification** | **1** | **0.00** | **Ln(Distance)** |
|  | 1 | 0.18 | Bank |
|  | 3 | 0.24 | GW |
|  | 1 | 1.90 | Ln(Distance), GW |
|  | 1 | 1.93 | Bank, ln(Distance), GW |