| **Metric** | **Term** | **Estimate** | **Standard Error** | **T Value** | **p** |
| --- | --- | --- | --- | --- | --- |
| Richness (Breakaway – Betta) | Intercept | 4.0 x 103 | 2.4 x 102 | NA | **< 0.001** |
| log10(Size Class) | 6.5 x 102 | 1.4 x 102 | NA | **< 0.001** |
| log10(Size Class)2 | -4.0 x 102 | 6.2 x 101 | NA | **< 0.001** |
| Salinity | -3.7 x 102 | 2.1 x 101 | NA | **< 0.001** |
| Salinity2 | 1.7 x 101 | 1.2 x 100 | NA | **< 0.001** |
| log10(Oxygen + 0.03) | -8.8 x 101 | 3.1 x 102 | NA | 0.779 |
| Richness (Breakaway – LM) | Intercept | 3.9 x 103 | 7.7 x 102 | 5.059 | **< 0.001** |
| log10(Size Class) | 7.5 x 102 | 4.4 x 102 | 1.688 | 0.096 |
| log10(Size Class)2 | -4.4 x 102 | 1.9 x 102 | -2.348 | **0.022** |
| Salinity | -4.5 x 102 | 1.7 x 102 | -2.610 | **0.011** |
| Salinity2 | 2.4 x 101 | 9.1 x 100 | 2.586 | **0.012** |
| log10(Oxygen + 0.03) | 4.4 x 102 | 7.6 x 102 | 0.574 | 0.568 |
| Diversity (Shannon H) | Intercept | 5.2 x 100 | 2.0 x 10-1 | 26.613 | **< 0.001** |
| log10(Size Class) | 5.0 x 10-1 | 1.1 x 10-1 | 4.461 | **< 0.001** |
| log10(Size Class)2 | -2.1 x 10-1 | 4.8 x 10-2 | -4.278 | **< 0.001** |
| Salinity | -9.5 x 10-2 | 4.4 x 10-2 | -2.175 | **0.033** |
| Salinity2 | 3.2 x 10-3 | 2.3 x 10-3 | 1.386 | 0.170 |
| log10(Oxygen + 0.03) | -1.4 x 10-1 | 1.9 x 10-1 | -0.738 | 0.463 |
| Evenness (Pielou J) | Intercept | 6.1 x 10-4 | 6.6 x 10-3 | 0.092 | 0.927 |
| log10(Size Class) | -8.3 x 10-3 | 3.8 x 10-3 | -2.182 | **0.033** |
| log10(Size Class)2 | 3.2 x 10-3 | 1.6 x 10-3 | 1.965 | 0.053 |
| Salinity | 1.0 x 10-3 | 1.5 x 10-3 | 0.687 | 0.494 |
| Salinity2 | -3.4 x 10-5 | 7.8 x 10-5 | -0.432 | 0.667 |
| log10(Oxygen + 0.03) | 4.8 x 10-3 | 6.5 x 10-3 | 0.738 | 0.463 |