Week 10 Results Statement for generalized linear models

Hypothesis: Chlorophyll-a is driven by changes in turbidity.

In order to assess the effect of turbidity on changes in chlorophyll-a concentrations at the surface (0.1m depth) at Beaverdam Reservoir, we developed a generalized linear model of the Gamma distribution. Our model output results show that there is a significant effect of turbidity on chlorophyll-a concentrations (p < 0.001). This relationship is positive as indicated by the positive parameter value for turbidity in our model output.