

## INTERMEDIATE GRADES 9-10

### 250 PROJECT SUMMARY

#### EARTH AND ENVIRONMENTAL CATEGORY

#### ***Human Impact On Bodies Of Water***

This project is an analysis on bodies of water and their influence caused by humans, measured by taking samples and recording different qualities. Two different samples will be taken from three bodies of water and analyzed for a number of different qualities; acidity, dissolved oxygen %, turbidity, SPC and others. The samples will be taken before and after rainfall to determine which of the three sources are the most contaminated, the effect of humans on said sources, and whether or not the runoff and rainfall improved or decreased the quality of water. The three sources are a storm water management pond on the corner of Sweetnam Dr. and Cook St, a small river beside Albert St, and the Scugog River at Lindsay St junction. These three sources all have varying levels of human influence, some affected more than others. The first samples were taken March 7, 2024 at all three locations within 40 minutes. Over the next 2 days, rain would commence and cause a swell of 21 millimeters. When returning to the three sources, the next two samples were taken March 9, 2024 at all three locations. The hypothesis is that the storm water management pond will be the most affected before and after rainfall, and the Scugog River will be the least affected.