Investigating an algae bloom on Big Rideau Lake

Your Name(s) _____

Date _____

1. **MAP EXPLORATION**
    a. Draw a representation of the **land cover** you see on Google Earth on the **model sheet** attached to this worksheet.

    b. What is the difference in land cover between the north shore of Big Rideau and the South Shore of Big Rideau

c. **How do you think this land cover might influence the development of algae blooms on Big Rideau? Write down a *hypothesis*. HINT: Look back at the Water Rangers online course module *Nutrients and Water Quality***

d. **Add on to your model drawing -- arrows and symbols to demonstrate your hypothesis**

2. **INCIDENT REPORT**

a. Make another *hypothesis*: did the algae bloom incident reported on Water Rangers occur on the North or South Shore of the lake? Why do you think this?

b. **Explain the story behind your hypothesis. What do you think caused the algae bloom to occur in this location?**

c. **Add to your MODEL where you think the algae bloom occurred (roughly) and draw in the processes that you believe caused it**

3. **CHECK THE MAP**

a. Where did the algae bloom actually occur?

b. Modify your model to fit what you learned

MODEL TEMPLATE