

## **The Nature of the Research - LWRC Surveys**

65 lake-wide stations were sampled per survey for

- Phytoplankton (plant plankton)
- Zooplankton (animal plankton)
- Benthos (bottom organisms)
- Lake water chemistry - analyzed for suspended carbon, nitrogen, phosphorus, iron, chlorophyll and total suspended solids, dissolved organic and inorganic carbon, chlorides and sulphates, total dissolved nitrogen and phosphorus, conductivity, magnesium and pH.

During inter-station travel

- Lake water – was drawn continuously from near the surface by a submersed intake fixed forward of the ship's bow. Parameters measured from these samples included pH, conductivity, surface oxygen, fluorescence, turbidity, and pCO<sub>2</sub> (partial pressure of gaseous carbon dioxide).

At the approach to each station

- Fish - in particular rainbow smelt, were sampled with a 3 m x 3 m trawl towed along side the vessel at 2 knots for a period of 30 minutes.
- Surface plankton – was simultaneously sampled using a 0.5 m diameter plankton net (250 micron mesh) towed from the stern of the ship.