

## CWSF 2008 - Ottawa, Ontario



### Nigel Gregory

#### Filter Failure

**Division:** Engineering & Computing Sciences / None

**Category:** Intermediate

**Region:** Sahtu

**City:** Norman Wells, NT

**School:** Mackenzie Mountain School

**Abstract:** This project studied the efficient removal of chlorine in an activated carbon filter and its failure point. The removal levels were measured by home-designed equipment. The studies soon revealed that at low concentrations of chlorine the carbon filter worked better than ones at higher concentrations. Also I found that the failure point of an activated carbon filter was 42mg/l.

#### Biography

My name is Nigel Gregory and I am in grade eight attending Mackenzie Mountain School. I have lived in Norman Wells now for almost two years now and gained a lot of respect from teachers here. I have a dog by the name of Taz. Also my parents are divorced and I live with my mother while my father lives in Newfoundland. My hobbies and interests include collecting fossils and vintage hockey cards, playing hockey with my friends, and reading. Over the years I have received many awards including top student of the year, second language award, honours overall, and the math and science award. At the moment I don't have a career plan or post secondary education plan.