



CANTEST



STATEMENT OF QUALIFICATIONS

Ecotoxicology

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2- Services

CAPABILITIES OF THE TOXICOLOGY GROUP

CANTEST provides toxicology testing services that range from routine analyses to projects requiring customized experimental design, creative problem solving, and interpretive reports. CANTEST works closely with clients whose projects may originate from either environmental or industrial process concerns. CANTEST specializes in conducting toxicity tests on water and sediment, effluent or complex industrial process samples, and chemical substances.



Our expertise and technical skills are described in the sections below.

2.1 FRESHWATER TOXICITY TESTS

CANTEST routinely conducts acute and chronic toxicity tests, using a wide variety of freshwater organisms and endpoints. In 2004, CANTEST conducted over 1000 acute Daphnia bioassays and over 500 acute rainbow trout bioassays.

- Acute fish bioassays using rainbow trout (*Oncorhynchus mykiss*) or other appropriate species (96-hr LC50)
- Salmonid early life stage development tests (egg, alevin, and fry)
- Fathead minnow (*Pimephales promelas*) larval acute (24-, 48- or 96-hr LC50) and 7-d growth \and survival test
- *Daphnia magna* and *Ceriodaphnia* tests (24-, 48- or 96-hr LC50)
- *Daphnia magna* 24- or 48-hr immobilization tests
- 7-d *Ceriodaphnia dubia* survival and reproduction
- 21-d *Daphnia magna* survival and reproduction
- Freshwater algal 72-hr growth inhibition tests (*Selenastrum capricornutum*)
- Acute and chronic Microtox® analysis

2.2 MARINE TOXICITY TESTS

CANTEST has extensive experience in conducting marine toxicity tests using species listed below. CANTEST routinely conducts marine toxicity tests for many of the pulp and paper mills in BC and for NPDES permits in Washington State. We also have the capability of conducting tests using PSEP and US EPA test protocols.