

## **NRPOP Lab**

















# Northern Region Persistent Organic Pollution (NRPOP) Lab

### Target Pollutants

- Persistent and toxic waste streams spilled/weathered/dispersed oil, petroleum waste, produced/ballast/bilge water, petrochemical/pharmaceutical/agrochemical wastewater, etc.
- Emerging persistent pollutants (EPPs) polycyclic aromatic hydrocarbons (PAHs), pesticides, pharmaceutical and cosmetic products, nano-particles, etc.

#### **Environments of Interest**

- Marine and coastal areas (incl. deep waters)
- Harsh environmental conditions (cold temp, cold water, rough sea, ice, etc.)
- Cold regions especially arctic and sub-arctic areas, etc.

### State-of-the-art Facilities

- Oil, environmental and nano-/bio-tech analysis (GC/MS, GC, IC, HPLC, AAS, TOC, Microtox, etc.)
- Physical & numerical modeling (multi-scale reactors, plume tank, OSCAR, GNOME/ADIOS, etc.)
- Shared/accessible facilities at MUN, C-CORE, and NRC OCRE (CREAIT Network, wave/towing/ice tanks, cold cambers, visualization, AUV/gliders, etc.)
- → First of its kind in Canada with national and international recognitions

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