

SURFACE WATER ANALYSIS

SURFACE WATER

Surface water is the water contained in our lakes, rivers, creeks, wetlands and streams. Canada is home to the largest surface water system in the world, the Great Lakes. Alone, they contain 84% of North America's fresh surface water.

Despite the size of the Great Lakes, they, like many other surface water sources, are sensitive to the effects of pollutants. Pollutant sources include runoff water and farm chemicals from agricultural land, pesticides, fertilizers and industrial, commercial and landfill effluent.

SGS is well versed in the identification of these potential contaminants and can ensure that the proper testing is done to address your needs.

WHY TEST

Testing of surface water can ensure drinking and swimming water quality. Surface water is more likely to contain organic material. When this water is treated with the disinfection chemicals such as chlorine, chlorine dioxide, ozone and bromine, the chemicals can react with natural organic matter. This can result in the production of toxic or carcinogenic by-products.

SURFACE WATER AND LEACHATE REGULATIONS

At SGS, we follow a number of guidelines and regulations when conducting surface water analysis. These include:

- Guideline for Use at Contaminated Sites in Ontario
- Ontario Regulation 347 - Leachate Analysis - Schedule 4
- Canadian Water Quality Guidelines for the Protection of Aquatic Life
- Provincial Water Quality Objectives (PWQO)
- Ontario Safe Drinking Water Act, 2002
- Canadian Council of the Ministers of the Environment (CCME) Guidelines
- United States Environmental Protection Agency (US EPA)
- Metal Leaching Test Procedures (US EPA TCLP 1311, SPLP 1312, MWMP etc.)

TESTING CAPABILITIES

We have an extensive list of analytical tests we conduct on surface water including:

- Quantification of ultra-trace metals
- Metal speciation
- Full range of organics analysis [hydrocarbons, polycyclic aromatic hydrocarbons (PAH), pesticides, volatiles, PCB etc.]
- Major anion identification
- Nutrient identification

SGS has extensive experience in water quality analysis. Not only do we have the most appropriate equipment to conduct all of your testing needs, we also have experienced, knowledgeable staff to support you 24 hours a day, 7 days a week. When you want uncompromised attention to technical excellence, turnaround time and customer service, choose SGS.

CONTACT INFORMATION

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WHEN YOU NEED TO BE SURE

SGS