



WARNING: This map is intended to assist in the planning and interpretation of fisheries and aquatic monitoring programs. It is not to be used for navigation. Some reefs and shoals may not be indicated.

SOUTH MOOSE LAKE

Coordinated Aquatic Monitoring Program Overview

The Coordinated Aquatic Monitoring Program (CAMP), established in 2008, is a long-term aquatic monitoring program to study and monitor the health of water bodies (rivers and lakes) affected by Manitoba Hydro's generating system.

A Memorandum of Understanding (MOU) between the Province of Manitoba (MB) and Manitoba Hydro (MH), signed in 2006, summarizes and defines the need for coordinating aquatic monitoring to address:

- growing expectation from environmental regulators, local communities, and the general public;
- monitoring and assessment of Manitoba Hydro's hydroelectric generation system.

Design of the CAMP integrates components of existing MB and MH long-term monitoring programs and developed new components and sites to fill necessary gaps. The geographic scale of CAMP makes it the largest holistic, ecosystem-based aquatic monitoring program in Manitoba.

Habitat Summary

In 2011 an aquatic habitat inventory study was conducted on the west basin of South Moose Lake. Surveys were conducted via boat-based hydroacoustics.

Acoustic surveys were validated with observations of substrates and shoreline habitat features. The resulting data was processed and analyzed to produce bathymetric and substrate maps.

The west basin of South Moose Lake is a relatively large flat, and shallow water body with over 98% of the lake above 7 m in depth. Its mean depth is 4.78 m, and its average bed slope is 0.4%. The deepest point in South Moose Lake at the time of survey was 12.05 m.

South Moose Lake is mostly comprised of silt/clay dominated substrates, which account for 89% of the total substrate distribution. The shore zone is generally rocky with varying degrees of embedded materials between clay and silt/clay substrates. The rock substrates are typically limestone in nature and range from large gravel to boulder-sized material. Rock based substrates account for 11% of the total mapped substrate composition.

References and Data Source:

- Contains information licensed under the Open Government Licence - Canada. (CanVec digital topographic information from Geogratis)
- Information pertaining to the collection and analysis of aquatic habitat data will be found in: North/South Consultants Inc. TBD. Coordinated Aquatic Monitoring Program (CAMP) Manitoba/Manitoba Hydro Coordinated Aquatic Monitoring Program (CAMP): Six Year Summary Report (2008-2013) In Prep.

