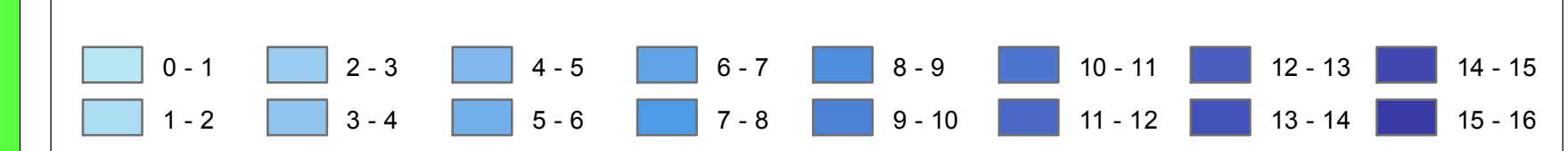
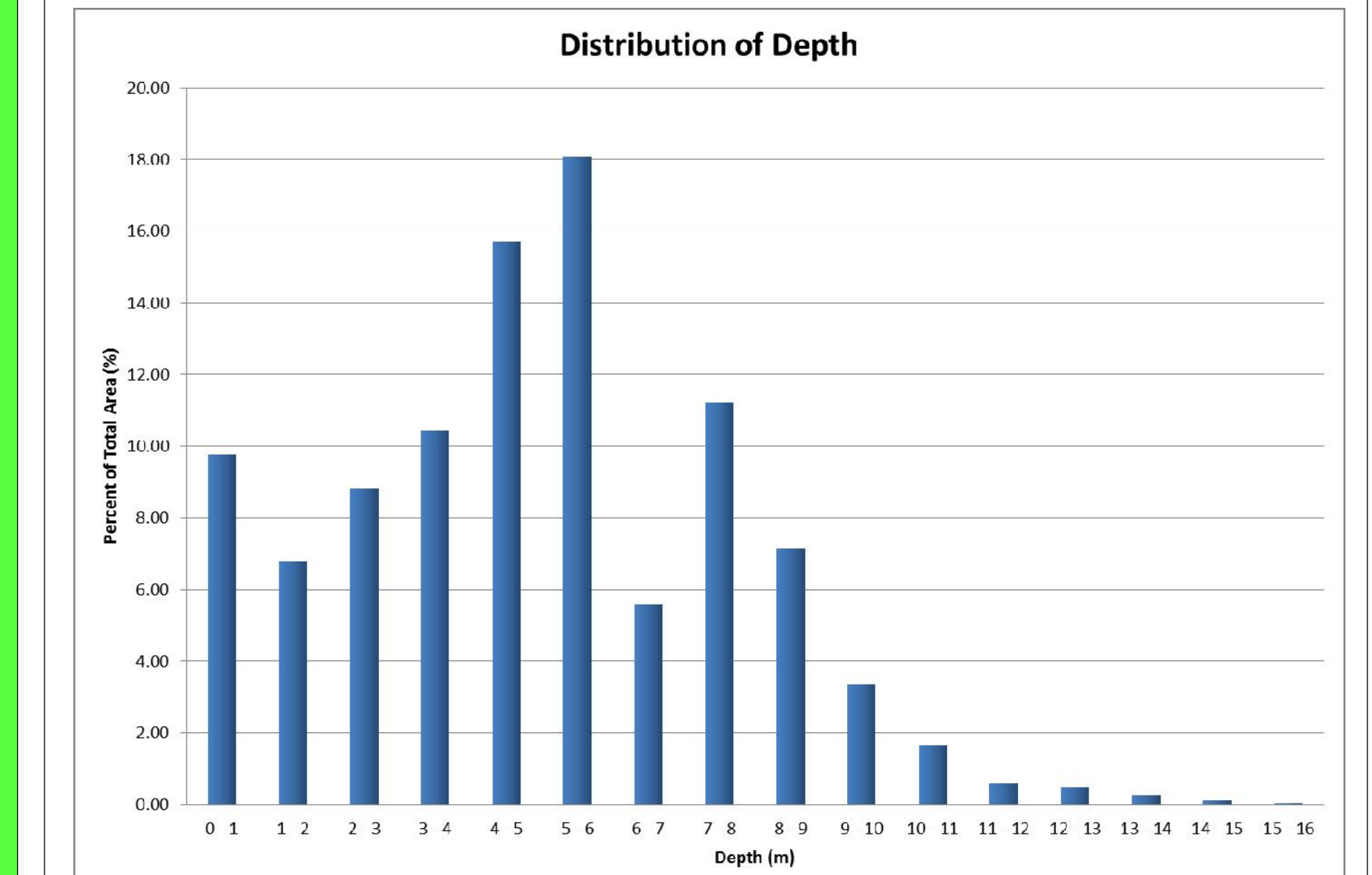


Bathymetry

LEGEND



Note: Not surveyed due to shallow shoals

Water Body	Area (m ²)	Area (ha)	Maximum Depth (m)	Mean Depth (m)	Maximum Slope (%)	Mean Slope (%)	Volume (m ³)
Apussigamasi Lake	23580243	2358.02	16.72	4.89	77.46	3.15	112120000

Note: Depths are relative to an average water surface elevation of 187.06 m ASL (CGVD28, 1929 MB Hydro local adjustment) measured at MB Hydro hydrometric station 0STG702 from June 2 - 8, 2010.

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.

APUSSIGAMASSI 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 2010 an aquatic habitat inventory study was conducted on Apussigamasi Lake. Surveys were conducted via boat-based hydroacoustics.

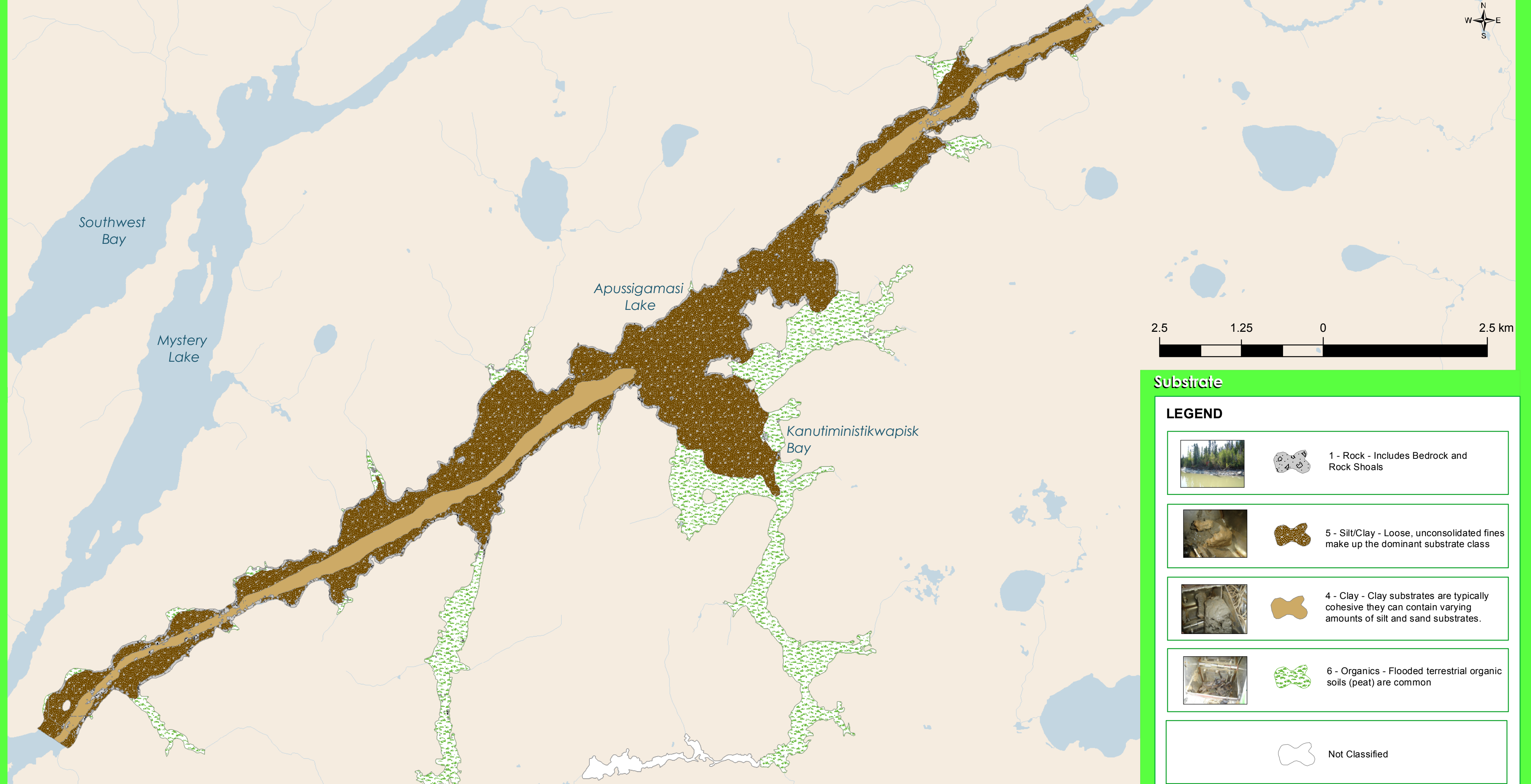
Acoustic surveys were validated with observations of substrates and shoreline habitat features. The resulting data was processed and analyzed to produce bathymetric and substrate maps.

Apussigamasi Lake, located on the Burntwood River, has the attributes of riverine lake. Its mean depth is 4.89 m and it has a maximum depth of 16.72 metres located in the channelized area of the lake. The largest open area of the lake is Kanutiministikwapisk Bay, which is shallow and flat. The lake contains a number of flooded shallow backwater inlets in low-lying tributary mouths.

The lake is dominated by soft silt/clay (51.3%) and compact clay (12.7%) substrates. The shorelines are predominantly bedrock controlled, and gravel to boulder sized rock material can be found throughout the riverine area of the lake. Flooded terrestrial materials (organic and woody debris and flooded tree stands) comprise a large portion (28.3%) of the lake.

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. 2014. Coordinated Aquatic Monitoring Pilot Program (CAMPP) Manitoba/Manitoba Hydro Coordinated Aquatic Monitoring Pilot Program (CAMPP): Three Year Summary Report (2008-2010) Volumes 1-13



Substrate

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