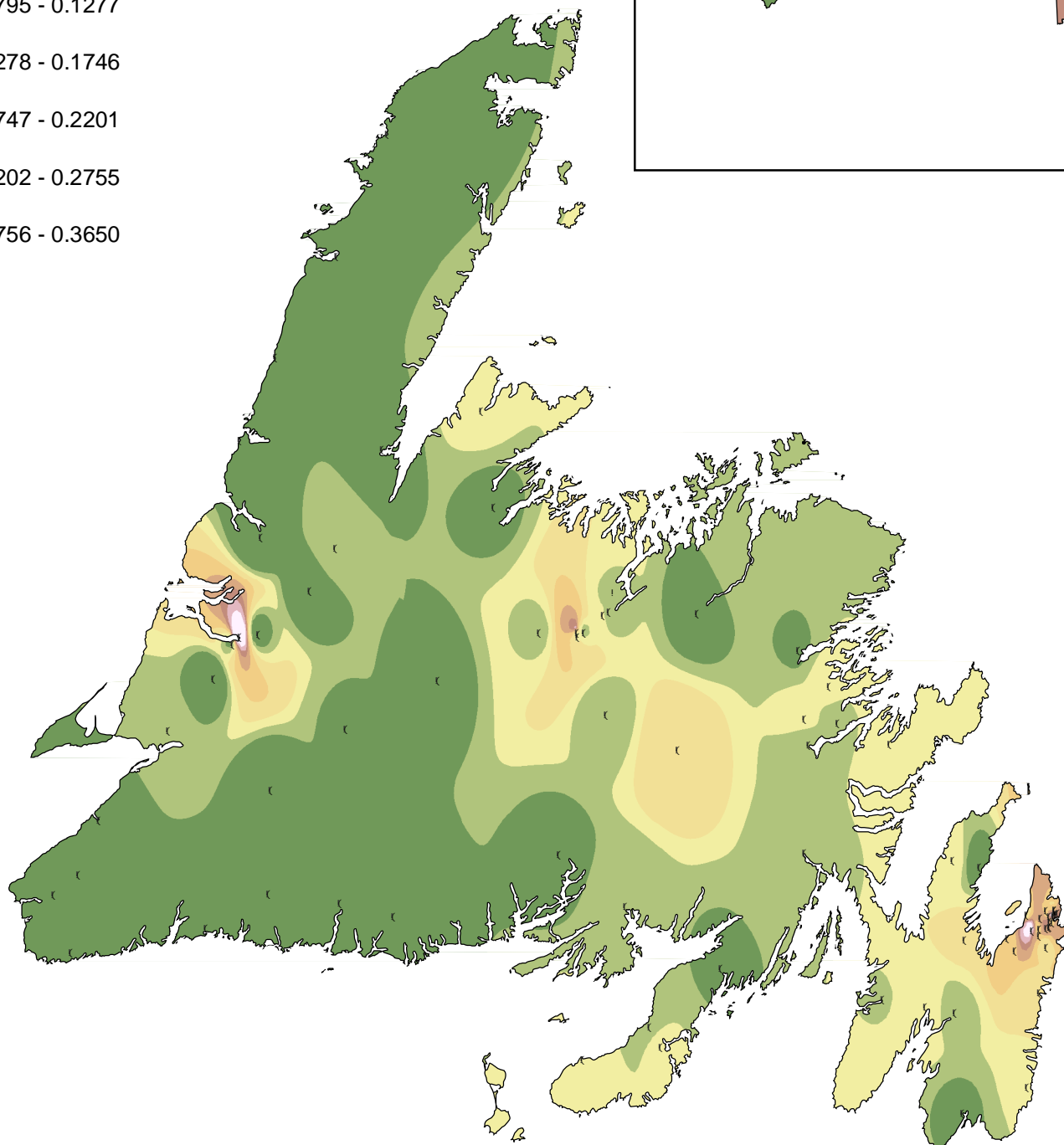
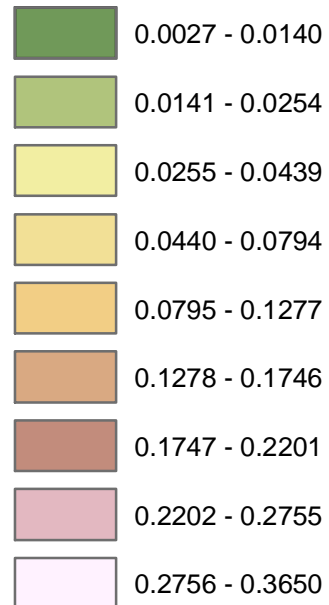


Manganese Contours Based on Canada-Newfoundland Water Quality Monitoring Agreement Data

Legend, Newfoundland

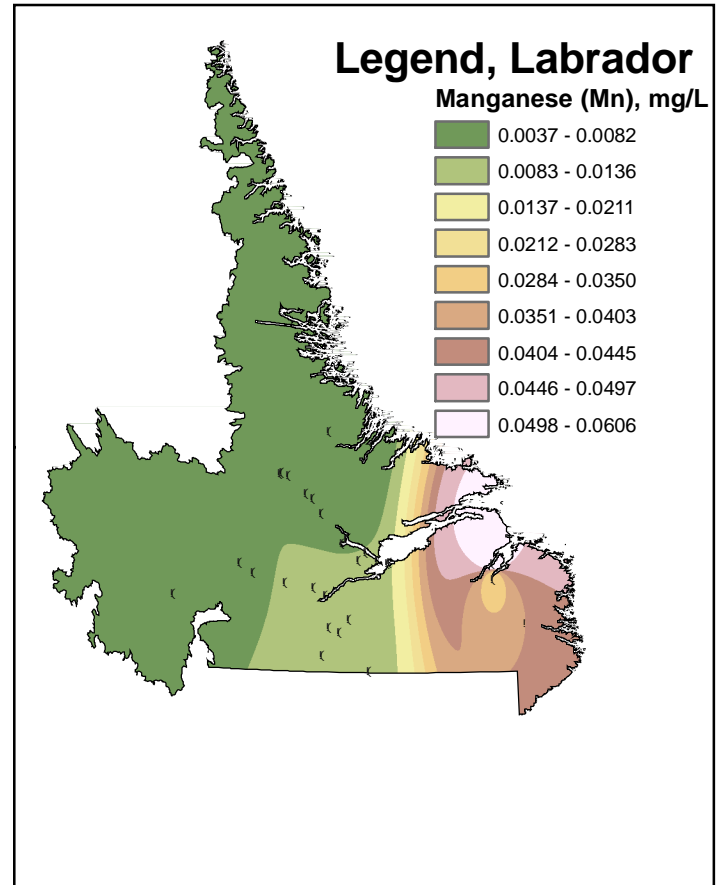
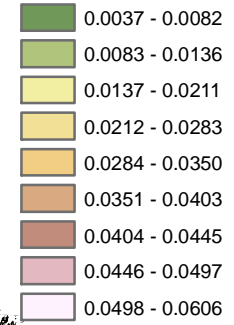
WQMA Sampling Sites

Manganese (Mn), mg/L



Legend, Labrador

Manganese (Mn), mg/L



A contour map displays regions, each of which represents a constant value for a particular parameter. These regions are approximations based on average recorded values at WQMA sites for all data collected between 1985-2000. The contour regions were estimated using a geostatistical approach known as Inverse Distance Weight (IDW), with a power of 5. The maps will be updated for every five years of new water quality data collected. Values are compared against the Canadian Council of Ministers of the Environment Water Quality Guidelines for the Protection of Aquatic Life.

Manganese levels tend to be higher in urban settings due to runoff. It is also a by-product of mining activities, fossil fuel combustion and industrial activities. Through the application of manganese pesticides, manganese will enter soils and can eventually reach surface water through runoff. There is no manganese guideline for the Protection of Aquatic Life.