

which induce carbonate precipitation. Expansive algal mats capture nutrients and collect sediment from the water column.

# 2009 - 2010 Community Mapping Program Sayisi Dene, Tadoule Lake, Manitoba Canada





Sayisi Dene artists have used raw material imported from Lac Brochet, Churchill, Thompson and Winnipeg to produce and export a variety of traditional sculpture, carvings, paintings and beadwork.

High quality marble sculptures are rare in Manitoba, and the **Dene-Tzi Marble** represents an opportunity for the Sayisi Dene First Nation to develop and promote part of their traditional land.











nfilled with carbonate, quartz sand and chert, resulting in a matrix-supported stromatolitic



## **Dene-Tzi Marble**









scheduled air service roads on eskers





**Talented** artists





### Mapping Program

The **Community Mapping Program** promotes relationship-building and geological-information sharing between Manitoba First Nations and the Manitoba Geological Survey (MGS). The work creates partnerships that enhance local and provincial economic development, assist mineral exploration, contribute to the Manitoba geological database and encourages land-use resolution. By working together, the program provides a balanced perspective of land-use issues.

MGS staff and participants geologically mapped the shoreline at Tadoule Lake in the first part of the program in 2009. The second part of the fourweek geological mapping course assessed a marble occurrence at Ryan Lake in 2010.

The **goals** of the program are to:

- increase awareness of the region's geology
- provide basic skills needed to work in a mineral exploration camp - foster information-sharing between First Nations and the MGS

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**Outcrop washing** poorly exposed marble at Ryan Lake: before, during and after

Manitoba











The Sayisi Dene First Nation were dislocated from their traditional lands and lifestyle in 1956 (above). The community is now re-established on the shore of Tadoule Lake (below).









2009 Tadoule Lake













