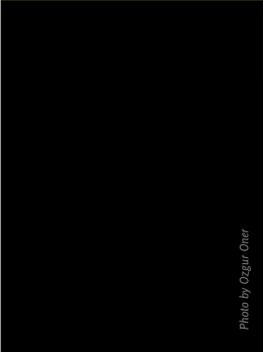




Planning for

Climate Change



Food

Possible Impacts

Changing climate conditions are affecting people's ability to hunt and fish.

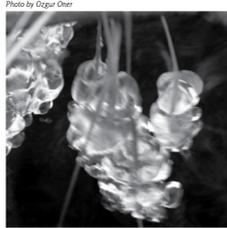
Weather is becoming less predictable which can make travel on the land more difficult and potentially dangerous.

Shorter winter road seasons and more expensive fuel may make store-bought food more expensive.

Shorter and warmer winters may make it more difficult to use traditional food storage systems that rely on cold to keep food from spoiling.

Take Action!

- ACTION**
Observe and share information about how the land, plants and animals are changing.
- BENEFIT**
Help other community members to move safely on the land, and to access food resources.
- ACTION**
Share observations with national and international audiences.
- BENEFIT**
Help document the changing environment, and encourage action to reduce climate change.
- ACTION**
Share ideas with community members and plan how to continue traditional hunting, fishing and harvesting in a safe and sustainable manner.
- BENEFIT**
Continue to provide country foods, and maintain our connection with the land.
- ACTION**
Grow our own food in community and family gardens.
- BENEFIT**
Produce fresh, healthy, inexpensive vegetables from the land.



Water

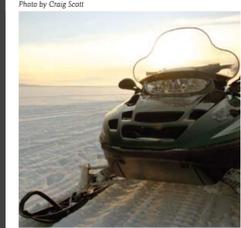
Possible Impacts

As permafrost melts, the ground may become less stable causing problems for buildings, sewage lagoons, pipes and utilidors.

Changes to rain, snow, and temperature patterns may alter spring run-off, flood frequency and storm intensity.

Take Action!

- ACTION**
Find out how the sewage treatment system (lagoon, wetland, pipes, etc.) may be impacted by permafrost melting and determine if any action is needed.
- BENEFIT**
Protect our community's health and save money by planning ahead, and being aware of lagoon areas and pipes.
- ACTION**
Find out what the predicted changes to rain, snow, and water flow in your community are. How could these changes affect residents? Are community buildings designed for these new conditions?
- BENEFIT**
Plan ahead to ensure the safety and health of residents.
- ACTION**
Develop a flood plan.
- BENEFIT**
Prepare for more variable weather conditions.



Transport

Possible Impacts

Melting permafrost can cause roads to shift, rise, and sink, and can make roads, bridges and airport runways less stable.

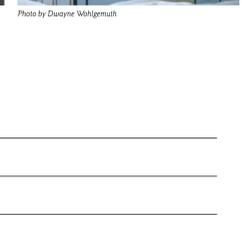
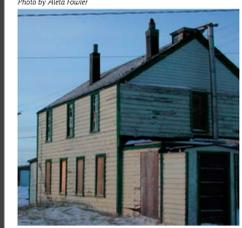
Warmer temperatures can shorten the ice road season.

Some rivers may have lower water levels when boats and barges need to deliver goods to communities.

A warmer, more variable climate impacts our ability to travel on traditional trails, and to get to hunting grounds and fishing areas.

Take Action!

- ACTION**
Check ice and land conditions before travelling, and encourage communication among people about these.
- BENEFIT**
Help everyone to travel more safely on the land and water – information and communication is safety.
- ACTION**
Make sure maintenance and snow clearing budgets take climate change into consideration. Melting permafrost and more snow will likely cause higher maintenance and construction costs.
- BENEFIT**
Planning ahead can help avoid financial surprises.
- ACTION**
Plan ahead to ensure goods are delivered to our community within shorter winter road seasons or during the shipping season.
- BENEFIT**
Reduce expensive air shipping costs when possible.



Buildings

Possible Impacts

As permafrost melts, the ground can become less stable for buildings, particularly those buildings that were designed to rely on permafrost.

Increased and more variable snowfalls and changing snowdrift patterns can damage buildings.

Higher shipping costs may make fuel and electricity more expensive.

Storms and floods can create serious water damage in buildings.

Take Action!

- ACTION**
Prepare a schedule and check and maintain the foundations of community buildings and houses regularly.
- BENEFIT**
Save money by doing regular maintenance (leveling) and reducing expensive repairs.
- ACTION**
Have a geotechnical study done for all potential new building sites, and follow its recommendations in detail.
- BENEFIT**
Make sure that drainage, erosion, and permafrost have been considered, and that the building foundation is suitable for the site.
- BENEFIT**
Save money by reducing the chance of future building failure and including the cost of making buildings ready for climate change in the initial design.
- ACTION**
Develop and implement a community energy plan.
- BENEFIT**
Reduce fuel use and save on fuel costs.

What's the Impact in Our Community?

Action We Can Take in Our Community!
