

DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region



Source Water Protection Planning

DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

What is Source Water / Protection?

Source water is untreated water from streams, lakes, rivers or underground aquifers that people use to supply private wells and public drinking water systems.

Source water protection is simply protecting water sources such as lakes, rivers, streams and groundwater sources from contamination or overuse.



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Human Health and Source Water Protection



- ◆ Human health depends on clean water
- ◆ Threats to human health from contaminated drinking water still happen in Canada
- ◆ Conventional water treatment cannot remove many hazardous chemicals

DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Economic Health and Source Water Protection



- ◆ The money put into protecting water generates economic growth – measured in terms of cost savings
- ◆ According to US EPA, remediating groundwater is 40 times more expensive than protecting it at its source
- ◆ Preventing contamination reduces cost of treating water
- ◆ Low water quantity can negatively impact power generation, manufacturing, trade

DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Who Manages Water Now?



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Who's Responsible for Drinking Water Source Protection?



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region



The Source Protection Committee exists to ensure an open approach is taken in the development of reasonable, science based policies that protect municipal sources of drinking water now and into the future.

DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

The Source
Protection Committee
is supported by a
team of
administrative and
technical staff and
consultants.



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Years 5 +

Implementation

Year 1

Foundation

Years 3 – 5

Planning

Years 1 & 2

Assessing the Threats



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Source Protection Planning Process

- Locally driven
- Science-based
- Emphasis on public engagement



South Georgian Bay Lake Simcoe Source Protection Region

- **Four watersheds**
 - Black-Severn
 - Lake Simcoe
 - Nottawasaga
 - Severn Sound
- **52 municipalities**
- **3 First Nations communities**
- **320 municipal wells**
- **17 surface water intakes**



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Recharge
areas



Surface water
intakes



Vulnerable
aquifers



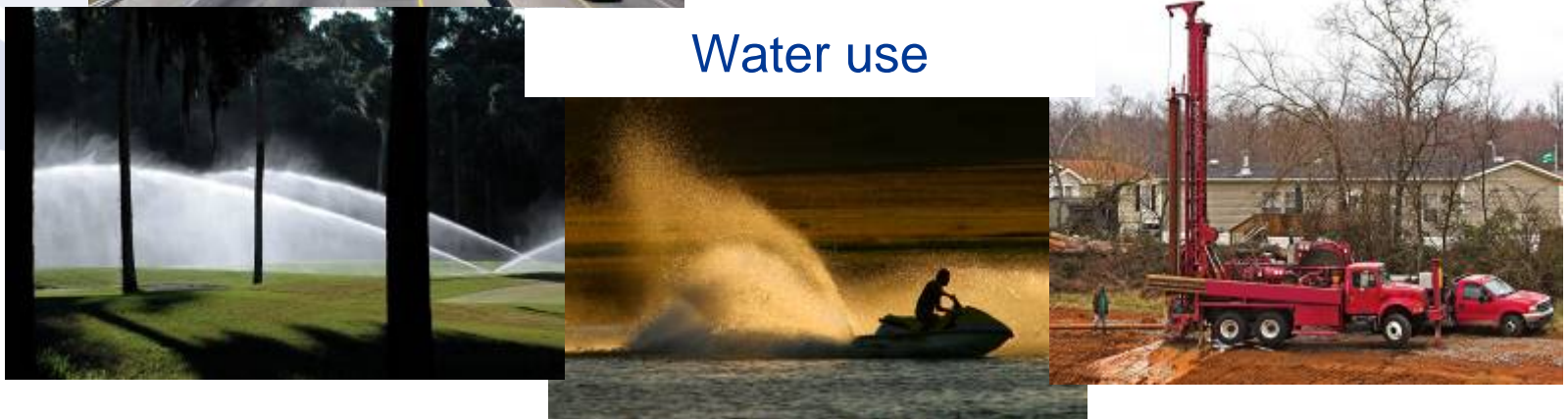
Wellheads



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

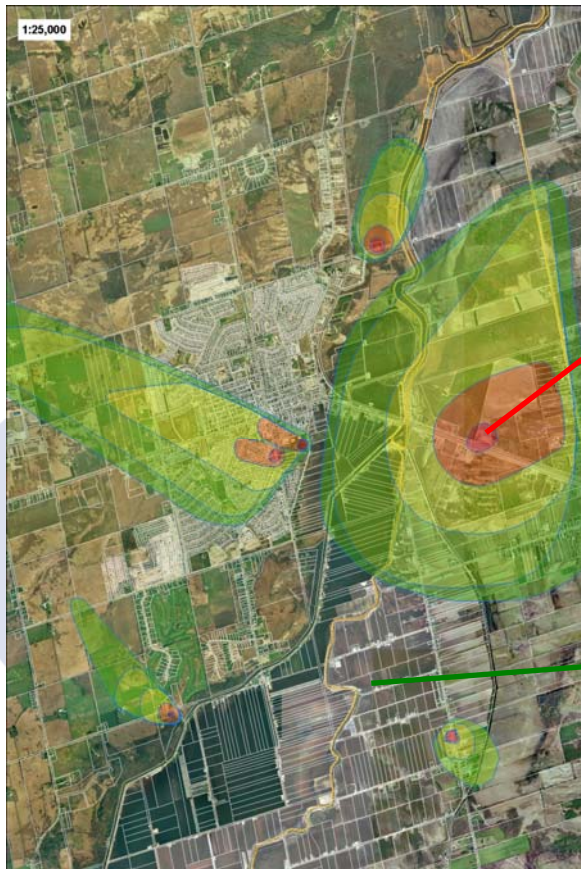
South Georgian Bay
Lake Simcoe
Source Protection
Region



DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region



Significant threat
+ High likelihood of travel
= **High level of risk**



Significant threat
+ Low likelihood of travel
= **Low level of risk**

DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

Public Engagement

Letters to Residents

Newspaper
Advertisements

Chambers of Commerce

Public Meetings

Funding for Clean up Actions

Newsletter

Website

Road Signs

Personal Visits to Resident's Homes

Workshops

DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

South Georgian Bay
Lake Simcoe
Source Protection
Region

www.ourwatershed.ca

1 800 465 0437

