



Saugeen Valley Conservation Authority

Programs and Services

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General Manager/Secretary-Treasurer

December 7th, 2022

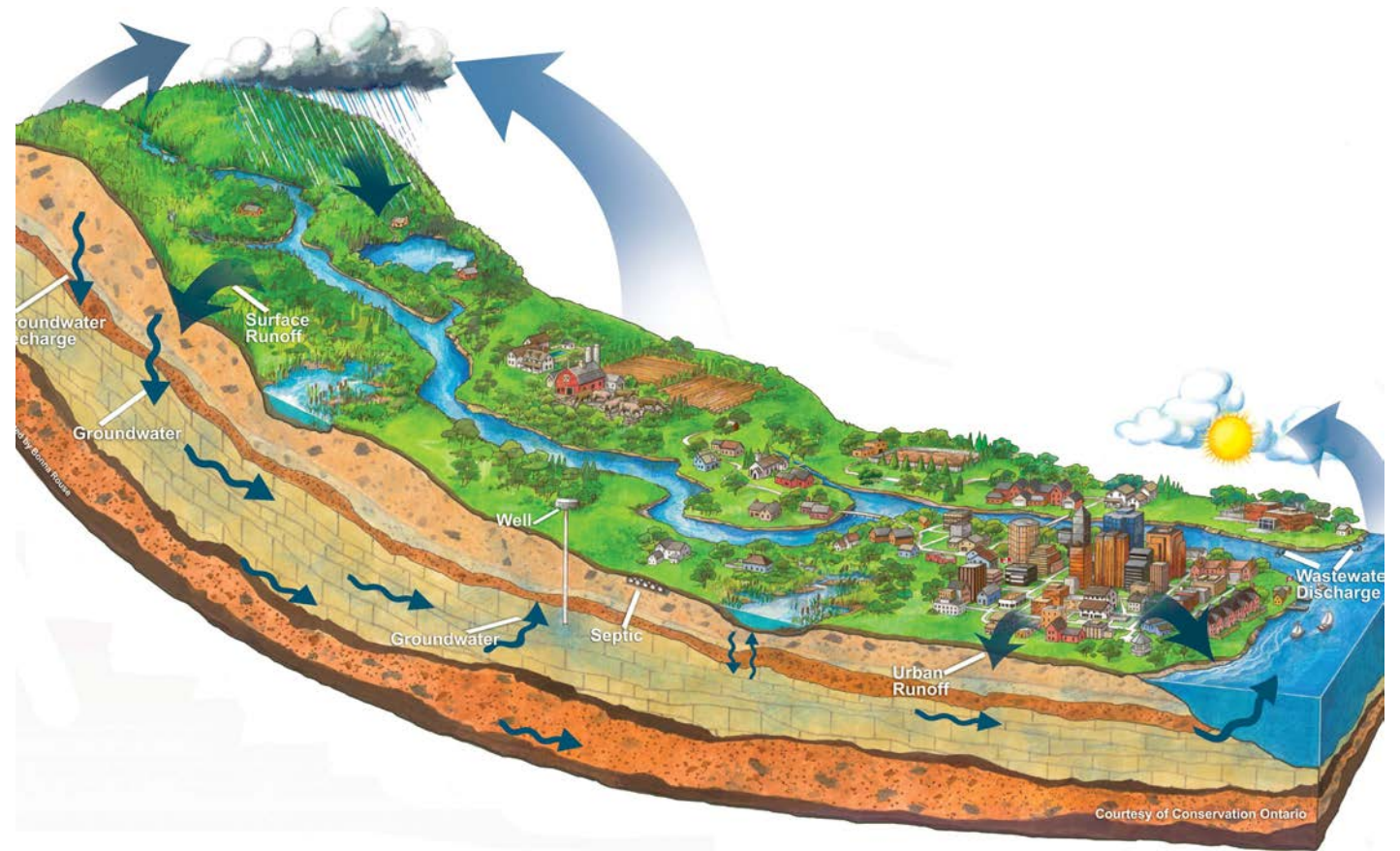
Ontario's Conservation Authorities

- 36 Conservation Authorities throughout Ontario
- Complete ~32,000 Planning and Permit Reviews Annually
- Manage over \$3.8-Billion worth of flood control and prevention infrastructure
- Protect lives and Prevent more than \$150-million per year in flood damages and disruption
- Work with landowners to plant over 1.3-M trees annually
- Offer 3,500 km worth of trail for people to enjoy, hosting almost 10-M visitors annually
- Second largest landowner in Ontario (collectively)

What is a Watershed?

Water flows Downstream...

- A watershed is simply a catchment area.
- When rain falls, it either infiltrates, evaporates, or runs off.
- What happens on your property might affect your neighbours and vice-versa.





We are one of 36 Conservation Authorities across Ontario under the umbrella organization of Conservation Ontario.

Saugeen Valley Conservation Authority

- 15 Municipalities, with 15 Directors on the Board
- Annual budget of 6.0 million (2023)
- 40 full time staff with additional seasonal staff
- 3rd largest Conservation Authority in Ontario, covering 4,765 km²
- 153 different properties in 86 groupings
- 118 km of shoreline, and 1 waterfall
- 54 km of maintained recreational trails, 129 km in total
- Manage 27 flood and erosion control structures
- Review over 1700-2000 applications annually
- Planted 5.8 million trees since 1974
- Annually plant approximately 150,000 trees

Flood and Erosion Control Prevention



Non-Structural Approaches

Keeping people away from water

- Regulation of development in floodplains
- Flood forecasting and warning
- Water infrastructure maintenance and inspection
- Emergency planning

Structural Approaches

Keeping water away from people

- Dams – to control flow of frazil ice and water
- Dykes – to restrict flows to the proper channel
- Channel works – to protect slopes from erosion

Flood Warning Program

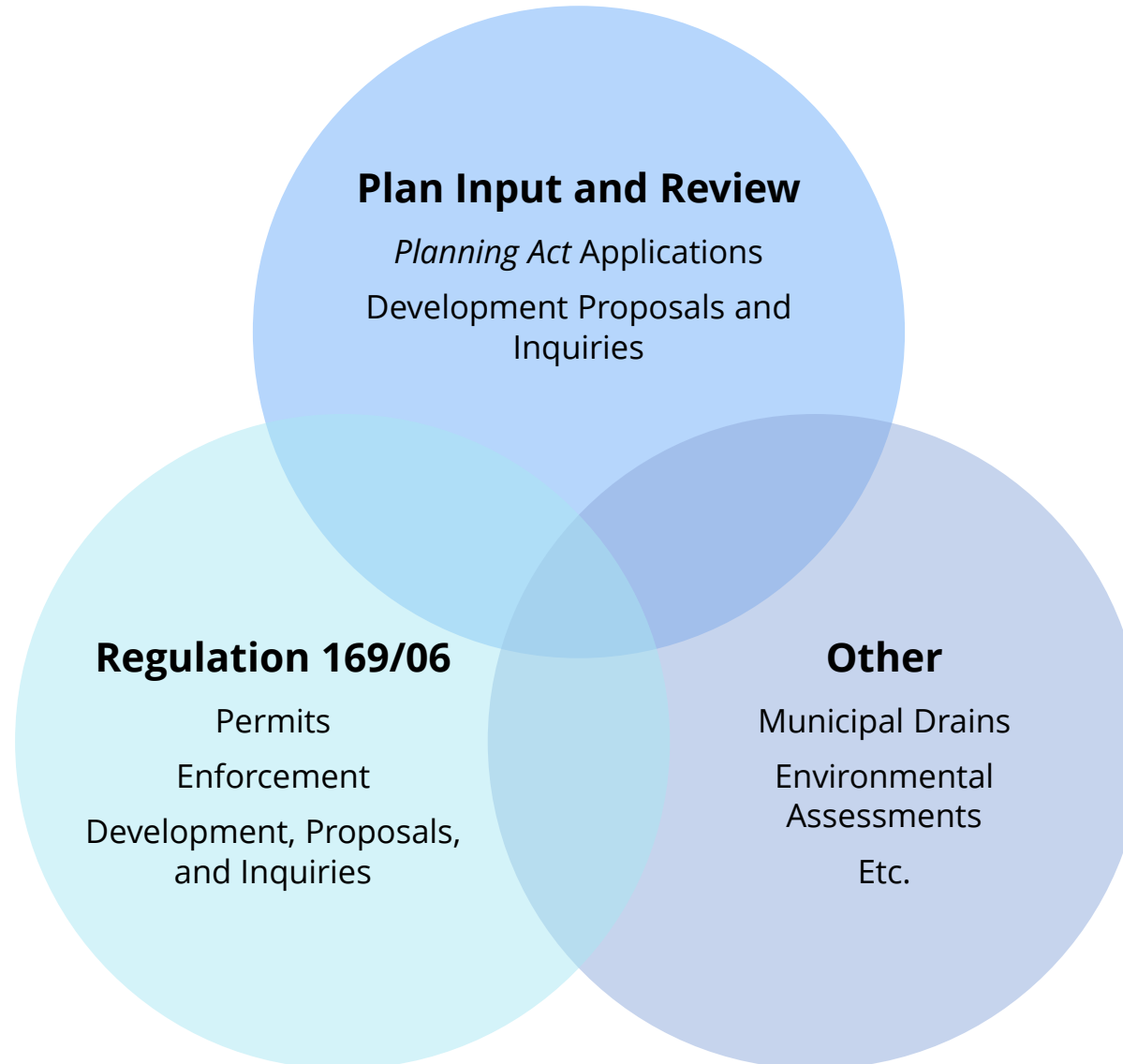
1. To relay routine information concerning watershed river conditions to selected agencies and municipal officials.
2. To provide rapid, advance warning and technical support to concerned officials and to citizens whose lives and properties may be endangered by floodwaters.



Flood Warning Messages

Normal	Green	
Statement	Yellow	<p>Watershed Conditions Statements / Water Safety are issued when general watershed conditions suggest high runoff potential that could lead to flooding and to remind the public that rivers, streams, and ponds may be unsafe for recreational or other activities.</p> <p>High flows, unsafe banks, melting ice or other factors that may result in watercourses being too dangerous for recreational users or the general public.</p>
Flood Watch	Orange	Flood Watch messages are issued when the potential for generalized flooding exists throughout the watershed or identified for specific municipalities.
Warning	Red	Flood Warning messages are issued when flooding is occurring or about to occur. It typically applies to a specific area of the watershed.

Environmental Planning and Regulations



Provincially Delegated Responsibility

All CAs have been delegated responsibility under the Provincial One Window Planning System for Natural Hazard management.

As outlined in a CO/MNRF/MMAH Memorandum of Understanding (MOU) CAs have been delegated responsibilities from the MNRF to represent **provincial interests** regarding natural hazards encompassed by Section 3.1 of the Provincial Policy Statement (PPS).

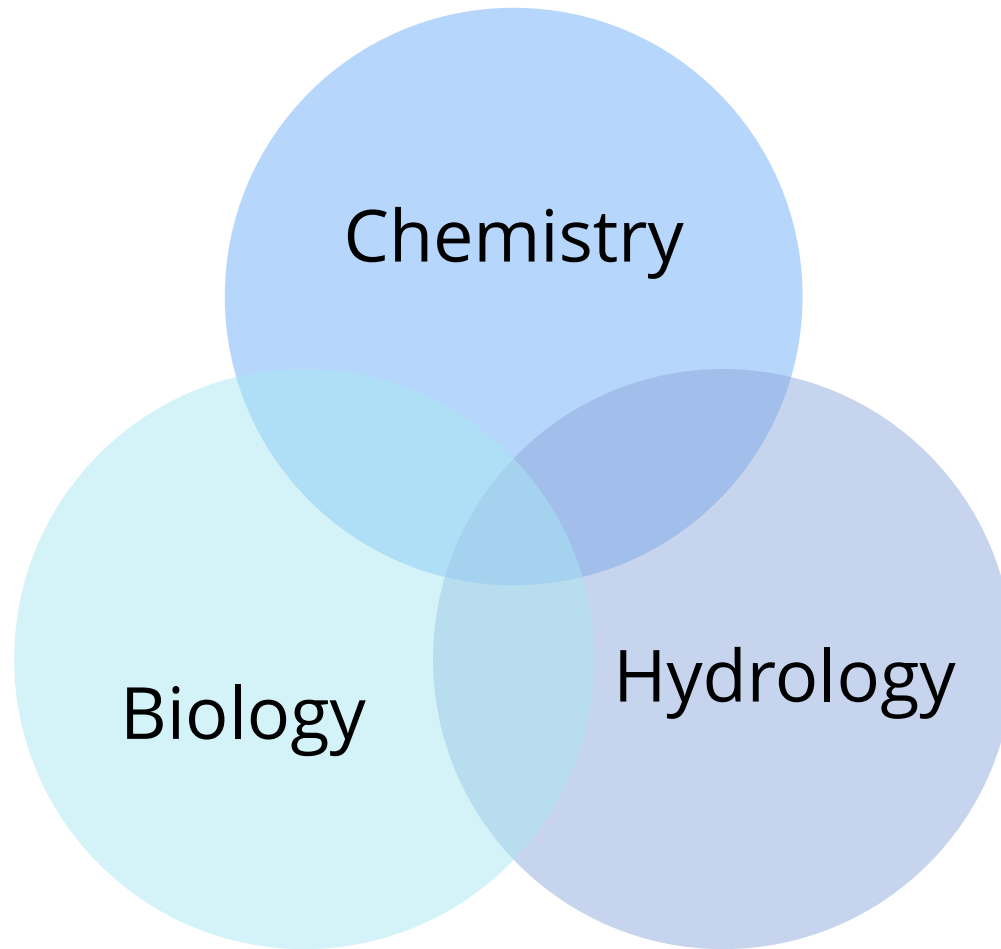
These delegated responsibilities require SVCA to review and provide comments on municipal policy documents (Official Plans and comprehensive zoning by-laws) and development applications.

SVCA's purpose is to ensure municipal policy documents and development applications are consistent with the natural hazard policies of the PPS.



Hurricane Hazel, Toronto 1954

Water Quality Program - Objectives



To establish baseline water quality data;
To observe trends; and
To assess the effectiveness of watershed programs.

The image shows a laboratory sample bottle and a handheld digital water quality meter. The bottle is labeled "Ontario Ministry of the Environment Laboratory Sample for Analysis" and contains a dark liquid. The meter is a "Pro DSS" model, displaying various water quality parameters on its screen, including pH, temperature, and conductivity. The meter is connected to a probe inserted into the bottle.



Biomonitoring

SVCA samples sediments for insect larvae. Different species have different pollution tolerances.



Groundwater Monitoring

SVCA performs level and maintenance checks quarterly. Well pump and samples are taken every fall.

There are 23 aquifers accessed at 14 sites.



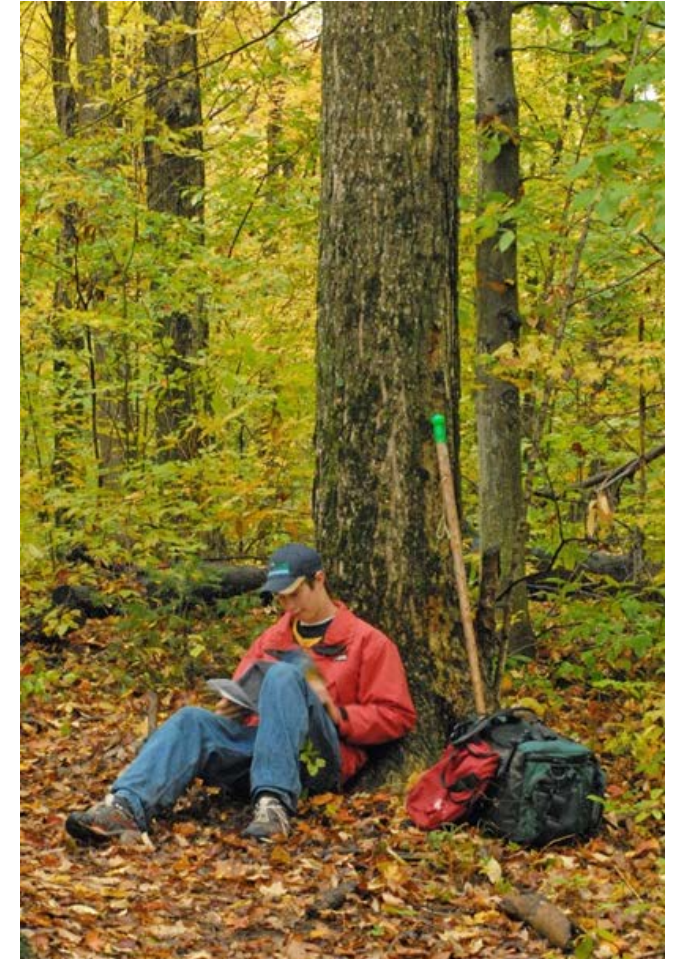
Forestry

- Tree Planting Program
- Managed Forest Tax Incentive Program applications for Authority properties and private landowners
- Tree Marking and Tendering Program
- Maintenance and improvement projects related to Authority forested properties (8,000ha)

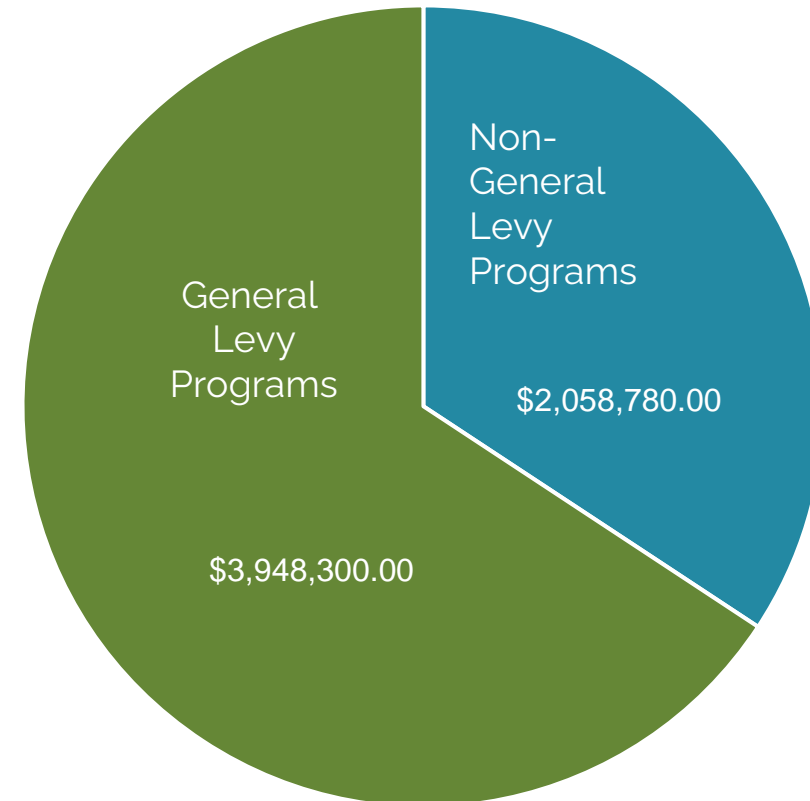


Land Conservation

Planning and design of maintenance or improvement projects related to Authority properties and structures.



2023 Budget



Total: \$6,007,080

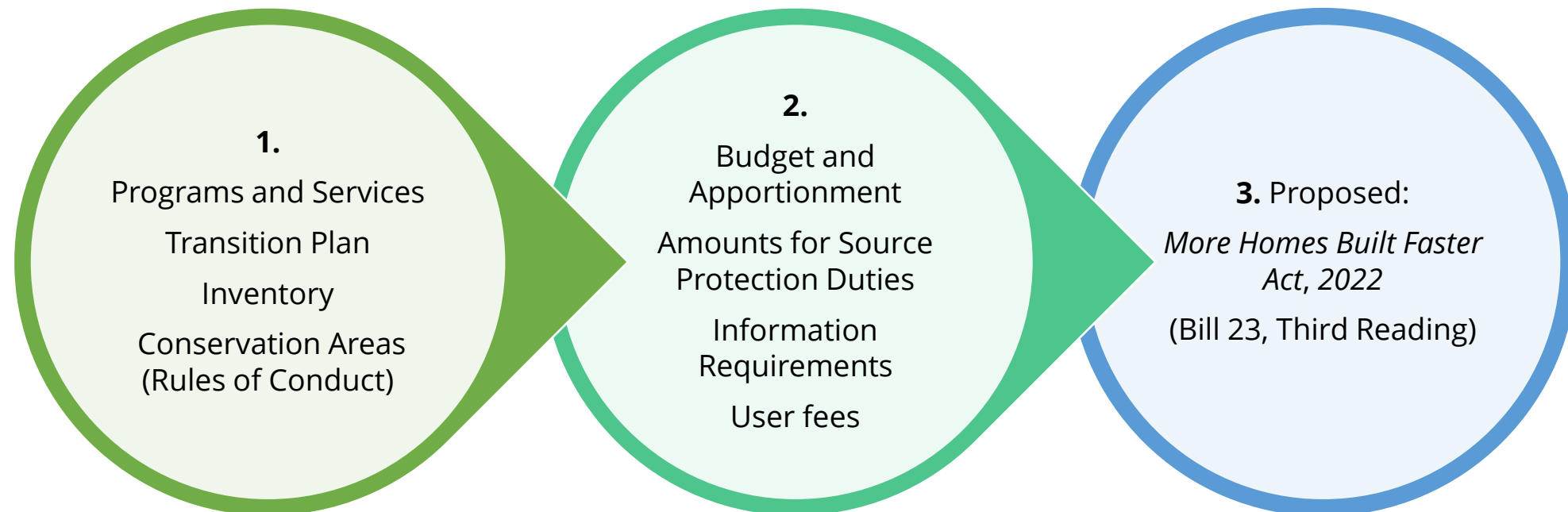
Township of Southgate



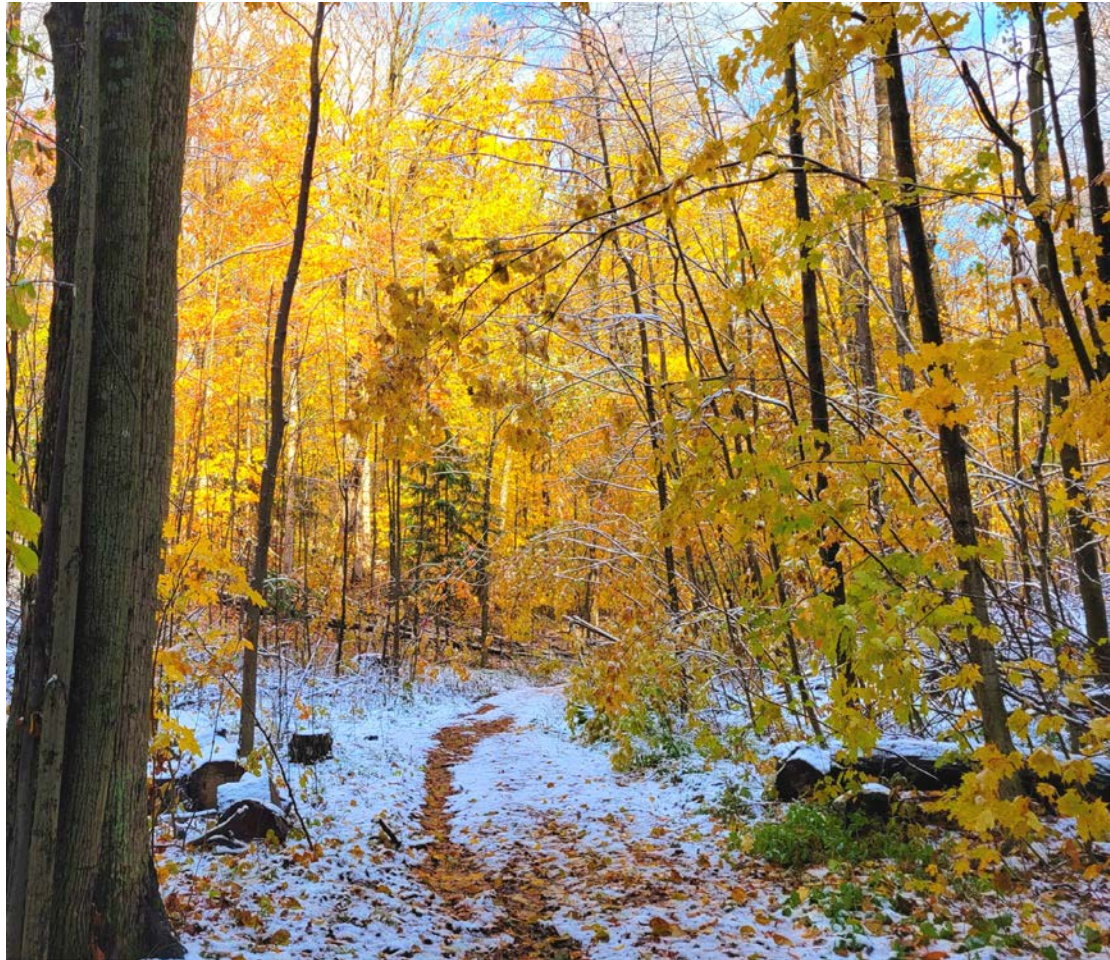
2023 General Levy	Approximate 1% of Municipal Tax Levy	Municipal Levy Impact
\$ 141,332	\$130,000	0.088%

Conservation Authorities Act

Overview of Related Changes and Proposals from 2021 Onwards



Programs and Services



Category 1: Mandatory programs and services

Category 2: Programs and services a conservation authority does on behalf of municipalities

Category 3: Programs and services that a conservation authority determines are advisable to provide in its jurisdiction

Agreements between municipalities and conservation authorities for Category 2 and 3 Programs and Services must be in place by January 1, 2024.



Thank you!