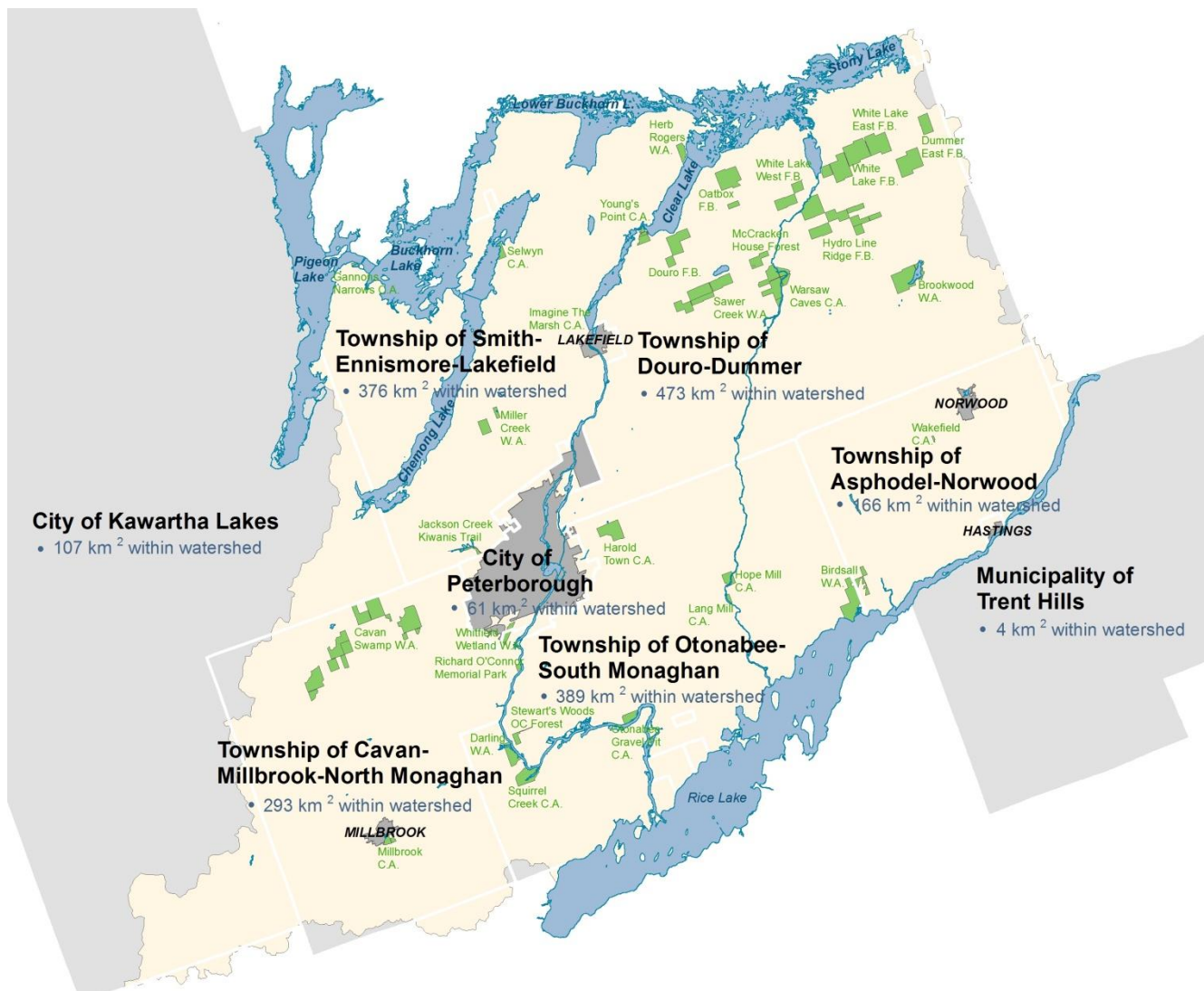


Integrated Watershed Management and Sustainability



***Meredith Carter, Otonabee Conservation
March 28, 2014***



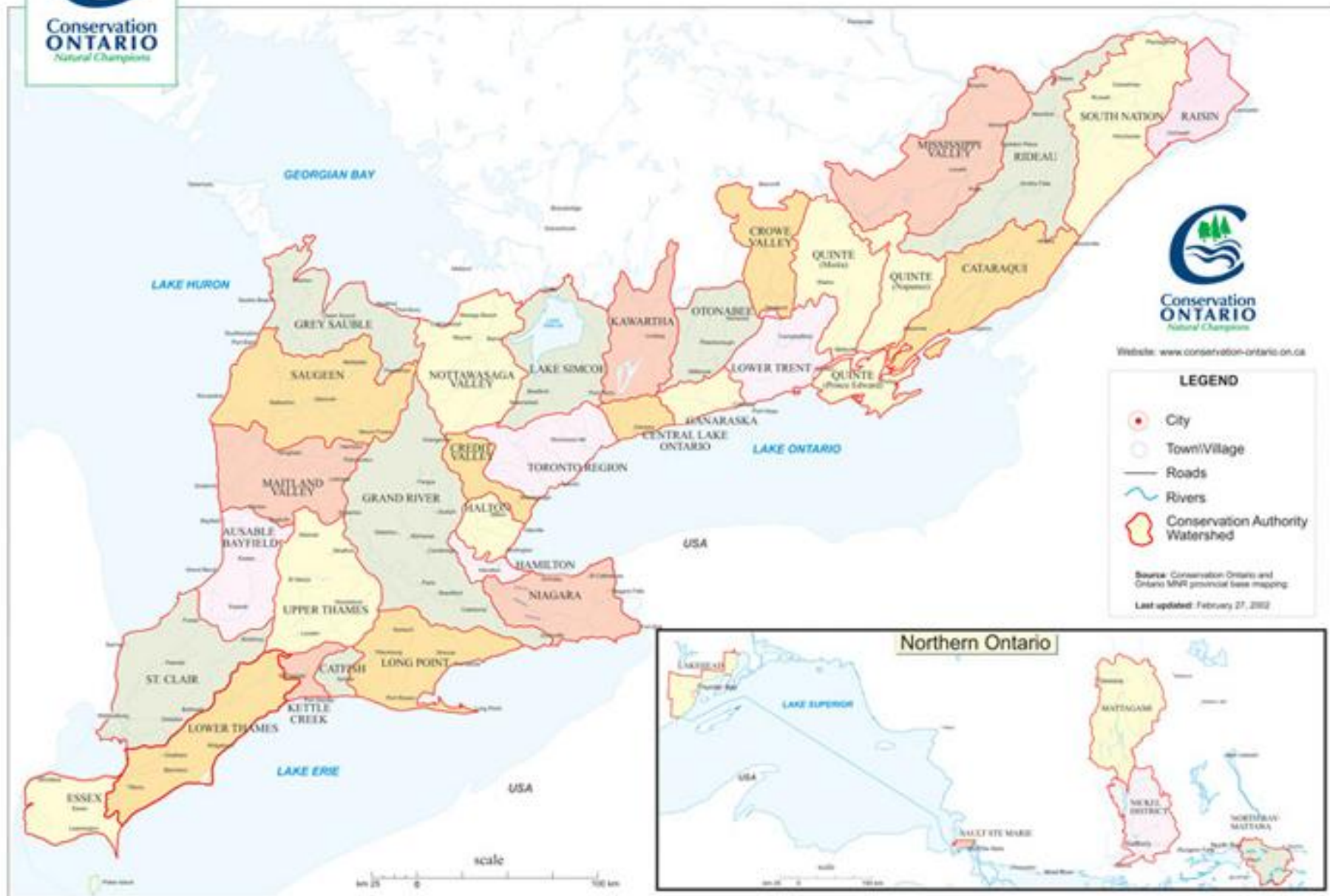
Otonabee Conservation ~ providing leadership to achieve healthy watersheds... where human activity respects the need to conserve, restore, develop and manage the natural environment for current and future generations.





Conservation
ONTARIO
Natural Champions

CONSERVATION AUTHORITIES OF ONTARIO



Ensure the conservation,
restoration and responsible
management of Ontario's
water, land and natural habitat
through programs that balance
human environmental and
economic needs.

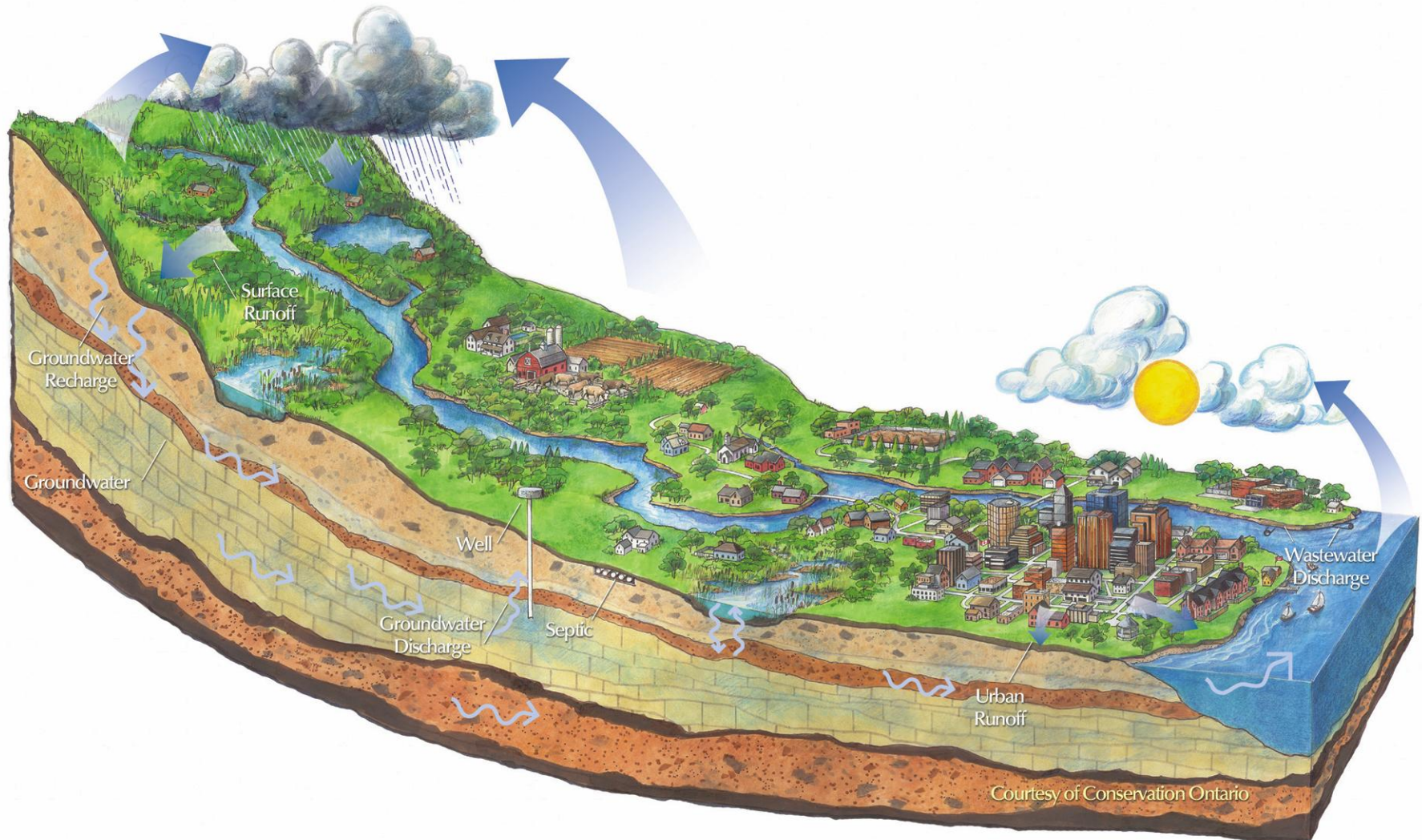


Ensure rivers, lakes and streams are properly safeguarded, managed and restored

Protect, managing and restore woodlands, wetlands and natural habitats

Develop and maintain programs that will protect life and property from natural hazards such as flooding and erosion

Provide opportunities for the public to enjoy, learn from and respect the natural environment



- Local, community-based environmental organizations
- Manage natural resources on a watershed basis
- Conservation Authorities Act – 1946
- 90% of Ontario's population resides within a CA watershed region – 10.5 million people



- Conservation Authorities Act
- Watershed basis
- Governed by a board of directors made up of municipal politicians
- 11 Directors
- Administrative board
- Implement Provincial and Municipal Policies
- Work with ENGO's, Universities, stakeholders and Gov't





- Planning and Regulations
- Flood Forecasting and Flood Warning
- Environmental Education
- Watershed Health Monitoring and Reporting
- Watershed Stewardship
- Conservation Lands/Protection of Natural Areas
- Drinking Water Source Protection

- Provide natural heritage advice to municipalities
- Commenting agency for Planning Act Applications
- Engineering reviews
- Stormwater Management



- Regulations for Development, Interference with Wetlands, and Alterations to Shorelines and Watercourses Regulation
- To prevent the loss of life and property due to flooding and erosion
- To conserve and enhance natural resources
- Section 28 CA Act



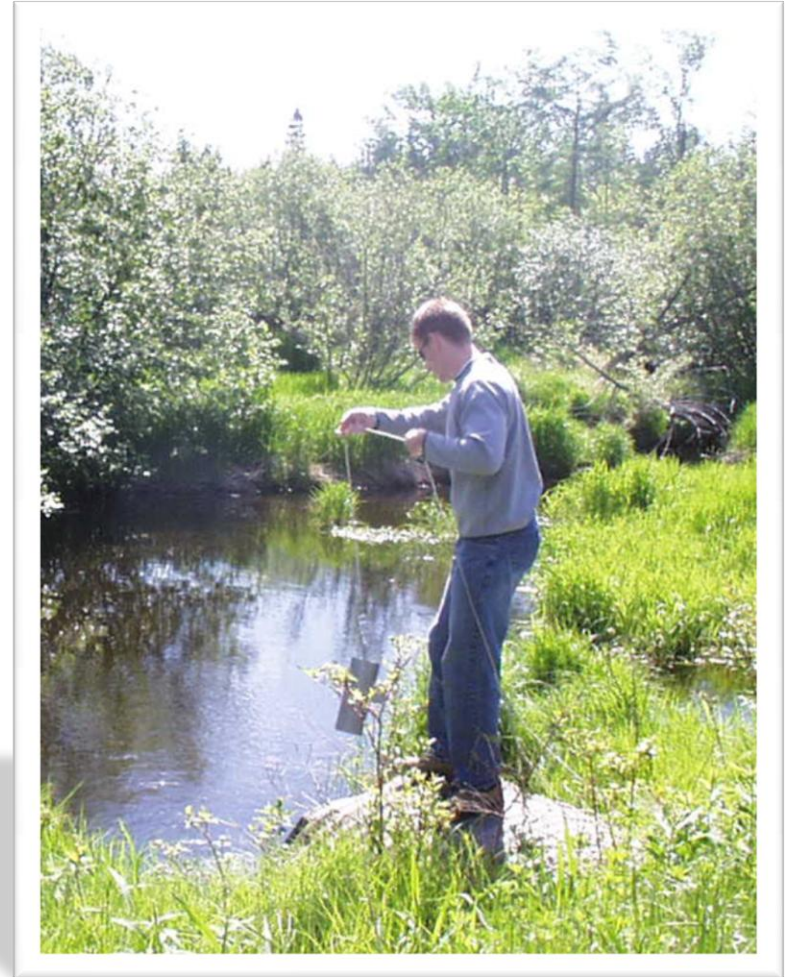


- Operate water control structures (3 dams, 1 weir)
- Floodwatch hotline
- 24 hour duty officer on call
- Operation and Maintenance of Stream Gauge Network
- Ice management
- Erosion control
- Public safety education



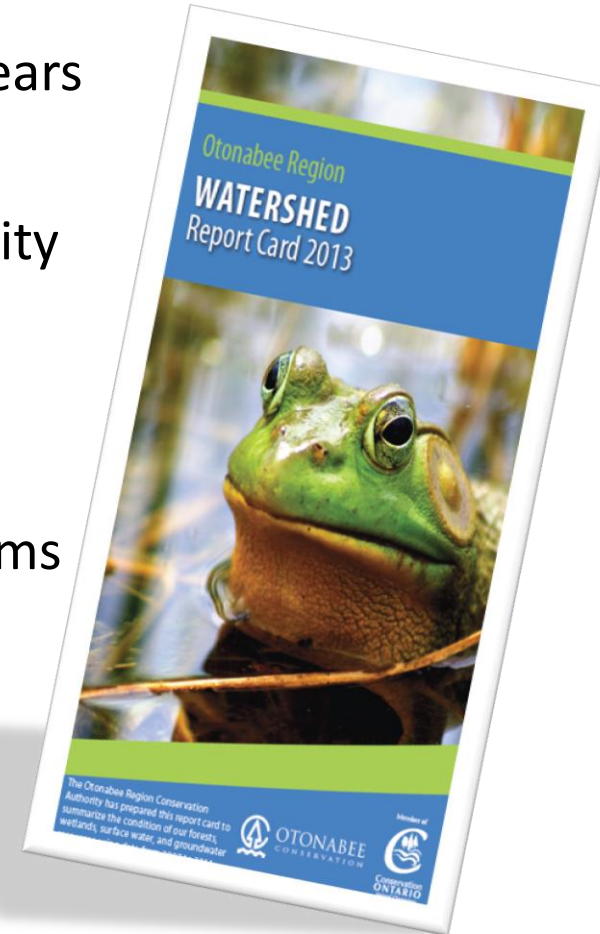
- Watershed based curriculum linked education programs
- ORCA Programs focus on sustainability and watershed ecosystems (physical environment)
- Be a Water Steward
- Spring Water Awareness
- Ptbo. Children's Water Festival
- Yellow Fish Road

- Watershed Report Card
- Water chemistry
- Benthics
- PWQMN/PGMN
- Amphibians
- Water Temperature
- Fisheries
- Species at Risk
- Wetland/Forest Health



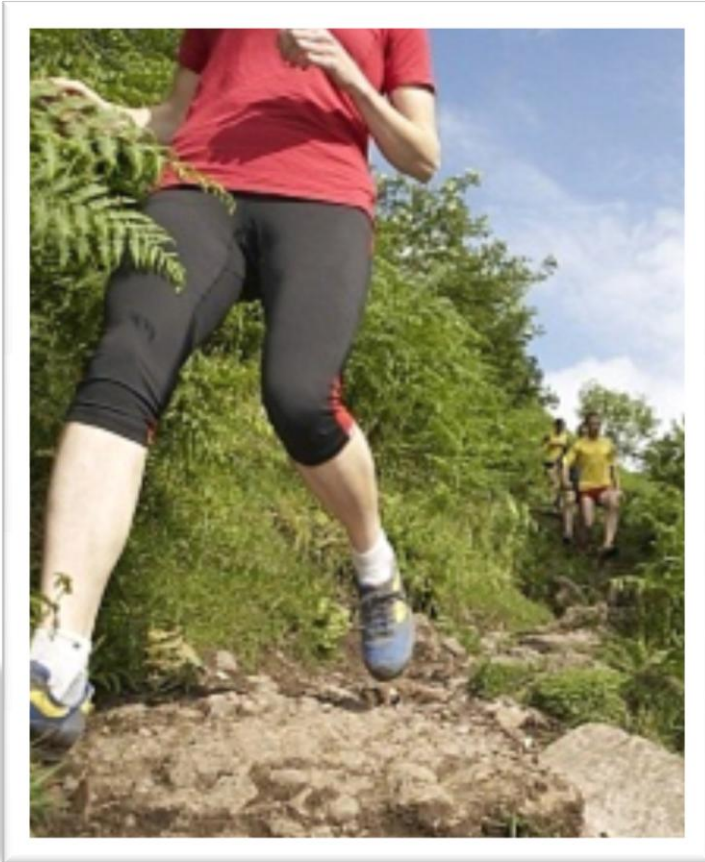
Watershed Report Cards

- ✓ Concise, user-friendly reports produced every 5 years
- ✓ Standardized indicators and grading to ensure ability to compare watershed conditions across Ontario
- ✓ tool for CAs, municipalities and other partners to measure environmental change and target programs
- ✓ Improve local knowledge and motivate action
- ✓ Promote ORCA activities and programs



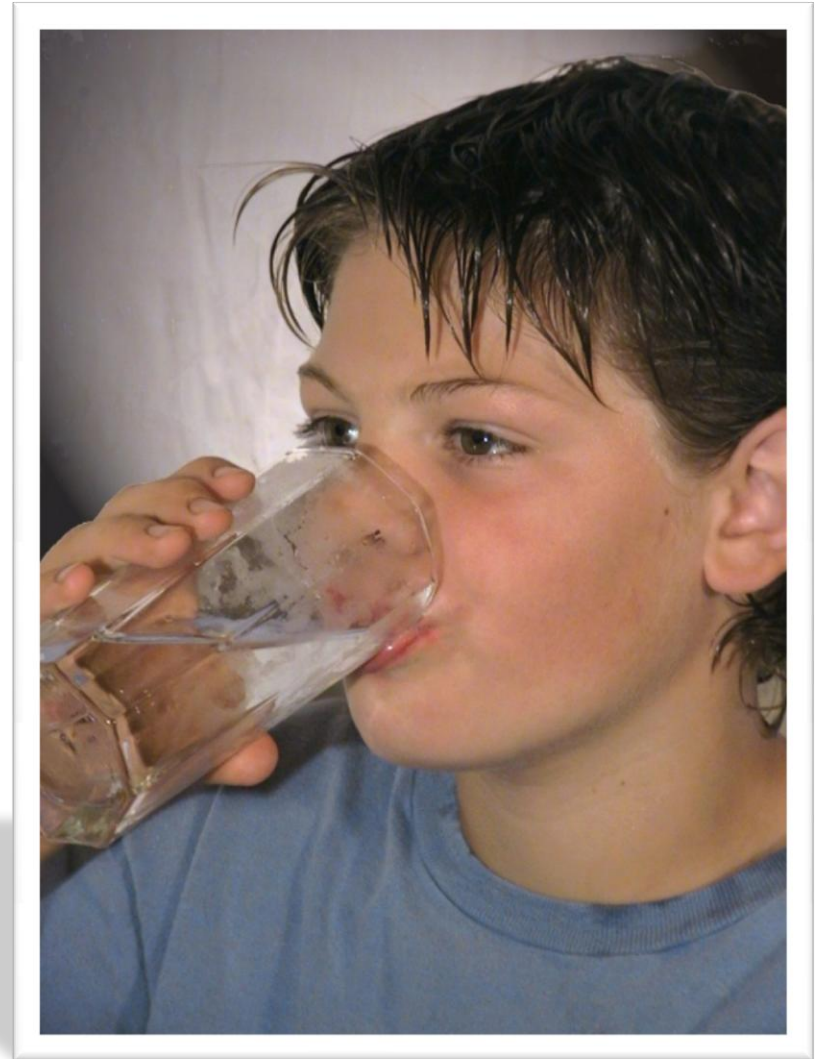
- Shoreline restoration
- Habitat enhancement
- Wetland restoration
- Tree planting
- Earth Day Activities
- Completed in partnership with community groups, service clubs and schools





- 10,000 acres of public land
- Public access to natural areas
- Wetlands, wildlife areas and recreational opportunities
- Warsaw Caves
- Selwyn Beach
- Beavermead Campground

- Partnership with MOE
- Multi-barrier approach to the protection of drinking water sources
- Stewardship activities to protect drinking water sources
- Source Protection Plans



Thank You

