

2007 Annual Report



www.quinteconservation.ca

*60 Years of
Conservation
1947 ~ 2007*



Quinte Conservation

Planning

Comments on land use planning applications (including severances, bylaw amendments, and subdivisions) and planning documents (official plans and zoning bylaws) are provided to municipalities following a site inspection. In 2007, there were 137 Consent to Sever applications, 6 Official Plan Amendments, 51 Zoning Bylaw Amendments and Minor Variances, 33 Site Plans, and a review of 12 subdivision plans.

Permits and Regulations

Regulations protect lives and property from the dangers of flooding. They also protect floodplains, wetlands, and other sensitive areas. Work near these sites requires a

Conservation Education

Each year many informative workshops are offered. March: Frog Monitoring and Marsh Monitoring. October: Planting and Caring for Tree Seedlings. Several Well and Septic Care Workshops were also held.

Over 600 people took part in the popular Outdoor Program which included: a series of 18 evening hikes, a cross country ski and interpretive tour, the six-week Bird Identification course, interpretive hikes during Bird Migration Awareness Week in Prince Edward County, three full day hikes, guided hikes at Activity Days at the H.R. Frink centre and hikes on Heritage Day at O'Hara Mill Pioneer Village.



Conservation Staff Members Alana Nunn and Lynette Lambert sampling for the Ontario Benthos Biomonitoring Network

permit. There were 376 permit applications received. Technical advice from Quinte Conservation (QC) helped landowners meet the requirements for proposed projects. Most applications were approved, some were withdrawn or put on hold, and two were denied. Staff also responded to 118 legal enquiries.

A significant amount of staff time was allotted in 2007 to the Bakelite trial. Charges were laid in 2006 for work done on this toxic former industrial land that was contrary to flood plain and shoreline regulations. Located directly on the Bay of Quinte in Belleville, the property has wetlands and sensitive shoreline areas. Five QC staff were called to provide testimony. The verdict is expected in 2008.

Children 7 to 13 had fun learning about nature during summer Conservation Camps at the Macaulay Mountain and Quinte Conservation Areas. Offered with the support of Rotary Clubs, full registration of was attained in Belleville and 80% capacity in Picton. 56 elementary schools in the watershed were encouraged to cover the topic of Spring Water Safety before March Break, using resources available on the QC website, their school library and at their school board.

Volunteers

Volunteers helped with special events preparation, setup and site improvements at the Conservation Areas, clean ups and provided administrative assistance. Many valuable contributions were made by Friends

of O'Hara's Mill, Friends of Massassauga, Friends of Frink, and Friends of Birdhouse City.

Summer Employment

Quinte Conservation employed 18 students to work on environmental projects during the summer of 2007.

At O'Hara Mill Pioneer Village and Conservation Area near Madoc one student acted as a tour guide. The beautiful Depot Lakes Conservation Area and Campground north of the Village of Verona had seven students work in visitor services. Another summer employee worked at the boat launch facility at Deerock Lake, a well-known bass fishing lake.

Three students worked in Quinte Conservation's main office. One of the students worked on completing the private Dam Inventory Project and the other student was a Technician for Source Water Protection. The third student helped with administrative duties.

Six students worked at the popular Children's Conservation Day Camp, offered at Quinte Conservation's main office near Belleville and at Macaulay Mountain Conservation Area in Picton.

Surface Water Quality

For the Provincial Water Quality Monitoring Network 104 samples were taken in the Moira Watershed, 60 in the Prince Edward Region and 32 in the Napanee Region. The Ontario Benthos Biomonitoring Network uses bottom-dwelling organisms as indicators of stream health. Nine sites were sampled in the Moira and Napanee Region Watersheds and twelve sites were sampled in the Prince Edward Region.

Groundwater Quality

For the Provincial Groundwater Monitoring Network, 31 observation wells were monitored. Samples for testing groundwater quality (including general chemistry and metals) were taken at 21 wells.

Two workshops provided well and septic owner stewardship information and practical advice to residents. Quinte Conservation acquired a groundwater model and demonstrated it at many public events including the Picton Fair and Hastings County Plowing Match.

Source Water Protection

Max Christie was appointed Chairman of the Source Protection Committee (SPC) in

2007 Highlights

August and the other committee members were selected in the fall. More information is available at www.quintesourcewater.ca.

Staff continued collecting technical and scientific data to assist the SPC with the development of a plan to protect sources of municipal drinking water.

Stormwater Management

Reviews were conducted on approximately 60 stormwater proposals: 40 were reviewed for Quinte Conservation and 20 on behalf of Lower Trent Conservation. The Potter Creek Master Drainage Plan set the standard within our region for stormwater management on a watershed basis. This approach will reduce the overall number of stormwater ponds required within in the drainage system and will optimize their placement and functionality. Staff coordinated technical input on plans for subdivisions.

Fundraisers

\$52,000 was raised for the Green Energy Project. A generous donation of \$600,000 was also received for this project, bringing the total to over one million dollars. The annual O'Hara Mill Pioneer Homestead Fundraising Dinner and Auction raised \$11,616.

Stewardship

In 2007, through the Tree Seedling Stock Program, 57,600 seedlings were ordered. Deciduous and coniferous seedlings and wildlife shrubs were available.

Quinte Conservation continued its partnership with the Prince Edward Stewardship Council to implement a farm stewardship program on Waring Creek. Sixteen farmers requested technical assistance for their Environmental Farm Plans between January and April.

Forestry

Forest Management plans for the Managed Forest Tax Incentive Program were completed and received by the Ontario Woodlot Association. These plans will ensure significant tax savings on properties in the Napanee and Moira watersheds

Flood Forecasting and Warning

The threat of flooding from frazil ice was an issue in late January and early February at the mouth of the Moira River and along portions of the Napanee and Salmon Rivers. Frazil ice is slush ice that is formed in open areas on rivers during extreme cold. Wind, cold temperatures and open water are all factors that contribute to the formation of frazil ice. Nine water level advisories were issued during the year. A backup generator was purchased to ensure that flood communications at the main office are maintained during emergencies.



Construction on the Green Energy Project at the McLeod Dam in Belleville

Green Energy Project

Construction began in July 2007 on Quinte Conservation's 4.7 million dollar green energy project at the McLeod Dam, on the Moira River in the City of Belleville. Once the project is operational in Fall 2008, it will help to eliminate 5,000 tonnes of carbon dioxide each year from our air and produce enough energy to power the equivalent of 400 homes per year. Revenue generated will go toward special conservation programs and improvements to the region's popular conservation areas.

The first part of the project involved modifications to the existing dam spillway, including the installation of gates. The gates, that are adjusted by an inflatable rubber bladder, will back up water to the level required to create enough head to operate the turbines. That portion of the project was completed in October 2007. The primary purpose of the dam is, and will remain, flood and ice control.

Dam Safety

Installation of warning "Danger" signs at QC dams continued in 2007. At the McLeod Dam, a fall restraint system was installed inside the control building and spillway walls were stabilized with the installation of the Obermeyer gates. The O'Hara Mill Dam safety study recommended major repairs or replacement for this small dam on the millpond on Deer Creek. Safety studies were initiated for the dams at Second and Third Depot Lakes that will examine the strength of the embankments and include an earthquake assessment.

Clean Ups

The Annual Moira River Cleanup, on Saturday, September 29, 2007, brought out over 50 volunteers of all ages to clean up the Moira River shoreline through downtown Belleville and at O'Brien's Bridge just north of the Frink Centre. Moira Secondary School students and teacher Gayle Miller helped to organize the cleanup with help from Quinte Conservation, Friends of the Frink Centre and the Parks and Recreation Department of Belleville.

2007 Executive Committee

Monica Alyea
Roger Cole

Quinte Conservation Full Authority Chair
Quinte Conservation Full Authority Vice-Chair

Moira River Watershed Advisory Board

Robert Sager, Chair	Township of Madoc
Jackie Denyes, Vice-Chair	Municipality of Tweed
Tom Lafferty	City of Belleville
Egerton Boyce	City of Belleville
Terry Cassidy	City of Quinte West
Stead Covert	Tudor & Cashes Townships
Eythel Grant	Township of Addington Highlands
Rita Cimprich	Municipality of Marmora and Lake
Dale Grant	Township of Stirling Rawdon
Tom Simpson	Municipality of Centre Hastings
Justin Bray	Municipality of Tweed

Napanee Watershed Advisory Board

Roger Cole, Chair	Town of Greater Napanee
William Robinson, Vice-Chair	Township of South Frontenac
John Wise	Township of Stone Mills
Gary Smith	Township of Central Frontenac
Ric Bresee	Loyalist Township
Fred Lang	Tyendinaga Township
Edgar Tumak	Town of Deseronto

Prince Edward Region Watershed Advisory Board

Monica Alyea, Chair	County of Prince Edward
George Underhill, Vice-Chair	County of Prince Edward
Stacey Hatch	County of Prince Edward
Brian Marisset	County of Prince Edward
John Thompson	County of Prince Edward
Wayne Drake	County of Prince Edward
Nathan Koutroulides	County of Prince Edward
John Drechsler	County of Prince Edward

2007 Conservation Staff

Terry Murphy	General Manager / Secretary Treasurer
Paul McCoy	Planning and Development Manager
Bryon Keene	Water Resources Manager
Lucille Fragomeni	Communications Manager
Terry Sprague*	Naturalist
Tammy Smith	Corporate Services Manager
April Brant	Executive and Corporate Services Assistant
Andrew Schmidt	Environmental Services Coordinator (until Feb.)
Keith Taylor	Source Water Protection Program Manager
Harry Stinson	Field Operations Manager
David Smallwood	Forestry and Field Operations Manager
David Dies	Field Operations Supervisor
Andrew Mack*	Landowner Contact, Wetland Habitat Fund
Catherine Sinclair	Regulations Officer
Tim Trustham	Ecologist / Planner
Lynette Lambert*	Environmental Water Quality Technician
Mark Boone	Hydrogeologist
Brad McNevin	Regulations Officer / Biologist
Hui Wei*	GIS Database Specialist (until May)
Jamie McKeown*	Communications and Marketing Assistant (until Sept.)
	Communications & Marketing Assistant
Lisa Boudreau*	Surface Water Specialist
Julie Munro*	Source Water Protection Administrative Assistant
Nicole McAnally*	GIS Database Specialist
	Assistant Water Quality Technician
Amy Dickens*	Director of Records / Health and Safety Officer
Alana Nunn*	Accounting Clerk
Andria Anakons*	Conservation Education Coordinator
Amy Rankin*	Environmental Technician
Maya Navrot*	Water Resources Technician (until April)
Jennifer White*	
Adam Wilson*	

*Contract Staff

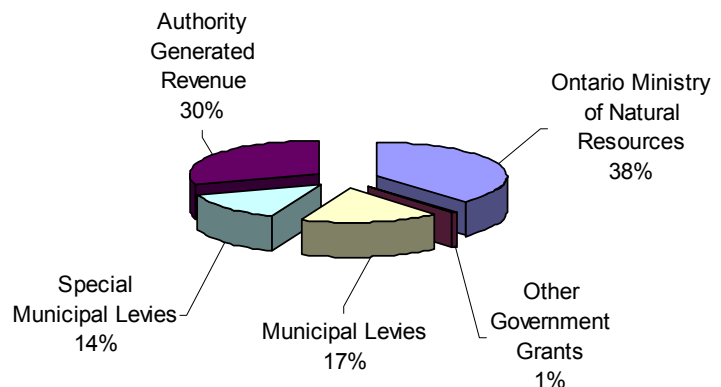
About Us

Quinte Conservation, one of Ontario's 36 conservation authorities, is a community-based environmental protection agency. We provide cost-effective environmental expertise and leadership that develops and delivers programs to ensure healthy co-existence between the community, its environment and its economy. Our area of jurisdiction includes the watersheds of the Moira, Napanee and Salmon Rivers and all of Prince Edward County.

Quinte Conservation provides important conservation advisory services to its local municipalities within its 6,000 square kilometer region. Quinte Conservation owns over 30,000 acres of land and 39 water control structures. Our success is based on local initiative, watershed jurisdiction and partnerships in resources management.

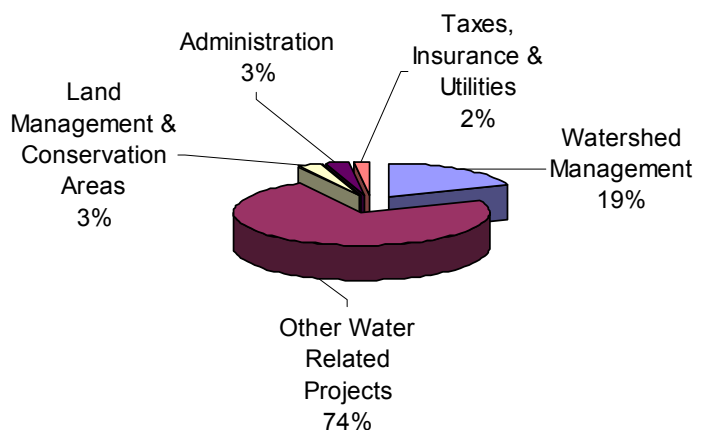
2007 Revenue

\$ 4, 770, 006



2007 Expenditures

\$ 6, 423, 021*



* The total difference between revenue and expenditures is not truly a loss as it is a carry forward of the hydro project from 2007 to 2008.

60 Years of Conservation



1947 - The Moira River Conservation Authority (MRCA) forms on July 31, 1947. The Napanee Region Conservation Authority (NRCA) forms November 20, 1947.

1951 - The MRCA purchases six properties in Hungerford Township, at a cost of \$ 4.07 per acre.

1958 - The NRCA opens the Second Depot Lake Dam and Reservoir.

1965 - The Prince Edward Region Conservation Authority forms December 9, 1965. At this time it encompasses over 1, 000 square kilometers.

1972 - An agreement between the Hastings County School Board and the MRCA creates the H.R. Frink Outdoor Education and Natural Science School.

1977 - Floodplain mapping for the entire Napanee River from Verona downstream to the mouth is completed; also including water frontage in Deseronto.

1979 - The McLeod Dam, the first of Belleville's ice control dams, is built to prevent flooding in the downtown.

1987 - The Arthur Holgate Dam is built in Belleville on the Moira River.

1988 - The Yardmen Dam is built in Belleville on the Moira River.

1989 - The Harry Mulhall Dam is built on the Moira River in Belleville.

1990 - The George and Lois Wishart Dam is built in Belleville on the Moira River.

1992 - The three Conservation Authorities (that now make up Quinte Conservation) and the Lower Trent Region Conservation Authority team up to assist developers with stormwater management. It was a first in the province and avoided duplication of services, saved taxpayers money, and resulted in better environmental protection.

1996 - The MRCA, NRCA, and PERCA come together to create Quinte Conservation.

1997 - Quinte Conservation celebrates 50 years of conservation in the Moira and Napanee River watersheds. Quinte Conservation launches its website.

2000 - Quinte Conservation adopts its current logo, an oval surrounding trees, water and a canoe.

2002 - Quinte Conservation begins to explore the possibility of retro-fitting four of its dams to generate hydro-electric power.

2006 - The Clean Water Act is passed by the Ontario Government. Conservation Authorities will help to facilitate the process of developing plans to protect sources of municipal drinking water.

2007 - Quinte Conservation begins construction on the Green Energy project at the McLeod Dam in Belleville to retrofit this dam to produce power. Benefits will include enough energy to power the equivalent of 400 homes each year and \$500,000 revenue per year to go towards local conservation initiatives.



"What happens upstream, affects what happens downstream" is a phrase you will often hear at Quinte Conservation. This is true not only of our watersheds, but also our history of conservation in the Quinte region. We are fortunate to have 60 successful years "upstream", so we can count on continued achievements "downstream" in the future.

1947 ~ 2007



Protecting Our Watersheds

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