



2020

BUDGET

Central Lake Ontario Conservation

Approved by Auth. Res. #48/20, dated June 16, 2020



Contents

History..... 1

The Central Lake Ontario Watershed 1

Mandate of Conservation Authorities 4

Governance 5

Membership Structure 5

Human Resources 6

Budget Presentation 7

Watershed Management & Health Monitoring 11

External Contracts – ORMGP (Oak Ridges Moraine Groundwater Program)..... 20

Formerly known as YPDT (York, Peel, Durham & Toronto Groundwater Study) 20

Environmental Plan Review & Regulation Services 23

Land Management..... 33

Vehicles and Equipment 38

History

On July 17, 1958, Central Lake Ontario Conservation was established by an Order-in-Council under the Conservation Authorities Act. It was formed by the Ontario Government at the request of the municipalities located within the area of jurisdiction.

As watercourses transcend municipal boundaries, all Conservation Authorities are established on the basis of natural watershed boundaries. A watershed is defined as an area of land that is drained by a river or creek. Similar to the branch of a tree, creeks empty into streams, which then empty into larger streams, eventually forming one main trunk. Within this system, everything is connected to everything else. In other words, actions which take place at the top of the system can and do affect those downstream.

Today, the province's 36 Conservation Authorities are regarded as world leaders in conservation, environmental protection, and flood control. Together Authorities own more than 407,550 acres (165,000 hectares) of land, including areas in the Oak Ridges Moraine, Carolinian zone, as well as Provincially Significant Wetlands and areas protecting important flora and fauna. Conservation Authorities operate in watersheds in which 90 per cent of the provincial population reside. Managing Ontario's watershed resources is a major undertaking that calls upon Conservation Authorities and their staff to work collaboratively with landowners, developers, educators, multi levels of government, professionals and the general public.



The Central Lake Ontario Watershed

CLOCA's jurisdiction is based upon the watershed boundaries of four major watercourses draining an area of over 627 sq. km. The four major watercourses which begin with their headwaters in the Oak Ridges Moraine are from west to east Lynde Creek, Oshawa Creek, Black/ Harmony/ Farewell Creeks, and Bowmanville/ Soper Creeks. There are 17 additional watersheds which include Warbler, Cranberry, Whitby Shores, Heyden-shore, Pump House, Corbett Creek, Pringle Creek, McLaughlin Bay, Robinson Creek, Burk, Tooley, Osborne, Darlington, St. Marys, Westside, Bennett Creek and Rickard. The Municipalities within CLOCA's watershed include the Regional Municipality of Durham, City of Pickering, Town of Ajax, Township of Uxbridge, Township of Scugog, Town of Whitby, City of Oshawa and the Municipality of Clarington.

A diverse landscape exists within CLOCA's jurisdiction which includes urban and rural settlements (hamlets), agriculture and natural areas. For the most part, the highly urbanized area is situated within the southern portion of the watershed, leaving the northern portion dominated by rural land uses and significant undeveloped natural areas.

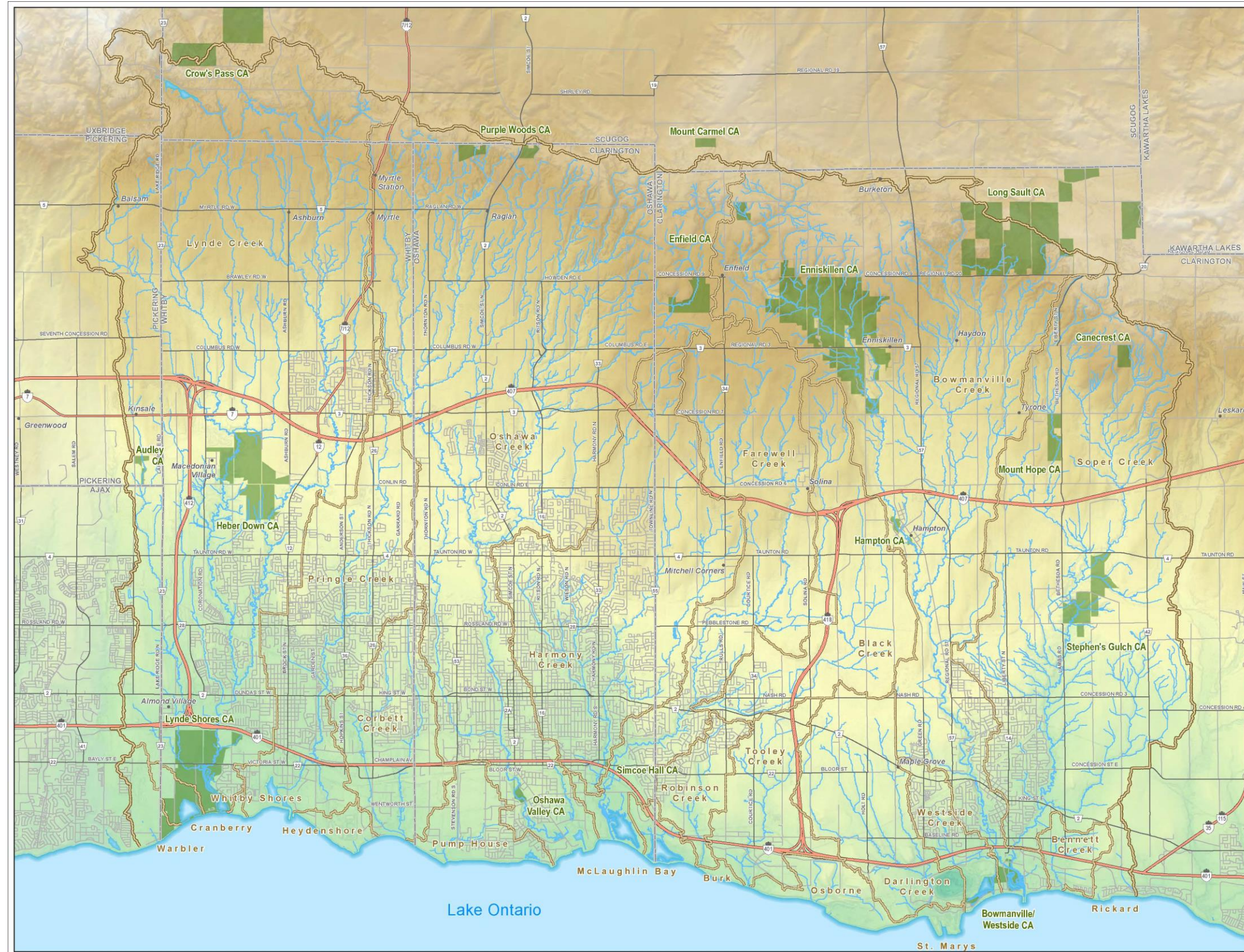
There are 3 major physiographic features within CLOCA's watershed being the Lake Ontario Waterfront, Lake Iroquois Beach and the Oak Ridges Moraine. Each of these distinctive landscape features contribute to the overall ecological functions that support healthy watersheds in CLOCA's jurisdiction.

Region-Wide Initiatives

- Coastal Wetlands Monitoring
- Conservation Authorities Moraine Coalition
- Groundwater Monitoring and Assessment
- YPDT Groundwater Program

Watershed-Wide Initiatives

- Environmental Planning & Permitting
- Fisheries Management Plans
- Flood Forecasting and Warning System
- Natural Hazard Policy & Mapping
- Groundwater Monitoring Wells
- Natural Heritage Land Securement
- Source Water Protection
- Terrestrial & Wildlife Monitoring
- Watershed Stewardship
- Water Quality & Stream Flow Monitoring
- Watershed Planning
- Environmental Education & Community Outreach Programs
- Conservation Areas for Wildlife Viewing and Hiking Opportunities



The Central Lake Ontario Conservation Authority

CLOCA Basemap

Legend

- CLOCA Property
- CLOCA Scientific Boundary
- Watershed Boundary
- Lake
- Drainage

Transportation Network

- Provincial Highway
- Major Road
- Minor Road

1 0 5 0 1 2 3 4 5

Kilometres

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 Map Compiled by the Central Lake Ontario Conservation Authority, 100 Whiting Ave., Oshawa, Ontario, L1H 3T3
 This map is for information purposes only and the Central Lake Ontario Conservation Authority takes no responsibility for, nor guarantees, the accuracy of all the information contained within the map.
 Source: CLOCA, 2020; Regional Municipality of Durham, 2020; MNR, 2020.
 Projection: NORTH AMERICAN DATUM 1983 UNIVERSAL TRANSVERSE MERCATOR (6 DEGREES) PROJECTION, ZONE 17, CENTRAL MERIDIAN (81 DEGREES WEST)
 Date Printed: June 3, 2020

Mandate of Conservation Authorities

Established under the Conservation Authorities Act R.S.O. 1990, a CA's mandate is to establish and undertake programs and services that further the conservation, restoration, development and management of natural resources in watersheds.

Member Municipalities

Durham Region
Town of Ajax
Municipality of Clarington
City of Oshawa
City of Pickering
Township of Scugog
Township of Uxbridge
Town of Whitby

CLOCA Watershed

Population

Approximately 368,000

Our Business is

Watershed Studies
Natural Areas Protection
Municipal Plan Input & Review
Flood Warning
Conservation Education
Source Water Protection
Floodplain/Valleyland Protection
Land Management and Operations
Watershed Stewardship

Vision

“Healthy watersheds for today and tomorrow.”

Our Mission

“Advancing watershed health through engagement, science and conservation.”

Governance

Central Lake Ontario Conservation is governed by a Board of Directors comprised of Councillors from the member municipalities. Through the Region of Durham each of the municipalities appoints Councillors to represent their jurisdictions. The number of representatives per municipality is determined by the population of the municipality within the watershed.

The Central Lake Ontario Conservation Board of Directors meets monthly at the Conservation Authority's Administrative office at 100 Whiting Avenue. The Board considers and approves all projects of the conservation authority and makes policy decisions related to the ongoing management, governance and future direction of the conservation authority.

Membership Structure

2019 Board of Directors

Chair

Councillor Bob Chapman
City of Oshawa



Vice-Chair

Councillor Ron Hooper
Municipality of Clarington



Dave Barton, Township of Uxbridge
Janice Jones, Municipality of Clarington
Chris Leahy, Town of Whitby
Sterling Lee, Town of Ajax
Tito-Dante Marimpietri, City of Oshawa
Ian McDougall, Township of Scugog
Don Mitchell, Town of Whitby
Rhonda Mulcahy, Town of Whitby
John Neal, City of Oshawa
Brian Nicholson, City of Oshawa
David Pickles, City of Pickering
Elizabeth Roy, Town of Whitby
Corinna Traill, Municipality of Clarington

Human Resources

Chris Darling, Chief Administrative Officer

◆ **Directors** ◆

Rose Catulli, Corporate Services
Jamie Davidson, Watershed Planning & Natural Heritage
Chris Jones, Planning & Regulation
Patricia Lowe, Community Engagement
Perry Sisson, Engineering & Field Operations

◆ **Staff** ◆

Vanessa Aubrey, Development Planner
Todd Backus, Resource Technician – Lead Hand
Lucy Benham, Senior Water Resources Engineer
Brandi Boardman, Executive/Accounting Assistant
Lisa-Beth Bulford, Development Planner
Meagan Breems, Outreach & Education Facilitator
Jeff Burgess, Water Resources Engineer
Andrew Caky, Senior Systems Development Specialist
Luisa Camelo, Payroll/Accounts Payable Administrator
Eric Cameron, Infrastructure Planner/Enforcement Officer
Godofredo Carpio, Hydrogeologist
Connie Ciulla, Service, Information & Records Coordinator
Alex Cooper, Resource Technician – Field
Andrew Cuning, Financial Services Coordinator
Ben DeWaal, Resource Technician – Field
Cathy Grant, Education Instructor
Lisa Hastings, Communications Specialist
John Hetherington, Regulation & Provincial Offenses Officer
Harry Hirschfeld, Resource Technician – Field
Dan Hope, Land Management & Operations Supervisor
Louie Jakupi, Senior Water Resources Engineer
Ian Kelsey, Aquatic Ecologist
David Krupicz, Systems Development Specialist
Sylwia Kubrak, Senior GIS Specialist

Kathy Luttrell, Natural Heritage Ecologist
Jason Maas, Resource Technician - Field
Annie Miller, GIS Technician
Bryan Mistak, Senior GIS Analyst
Dan Moore, Aquatic Biologist
Roy Mosher, Restoration Coordinator
Heather Pankhurst, Wetland Biologist
Stefanie Penny, Development Planner
Jackie Scott, Wildlife Biologist
Diana Shermet, Terrestrial Biologist
Yvonne Storm, Community Events Coordinator
Leena Vaja, Executive Assistant/Health & Safety Admin
Holly Whittington, Environmental Engineering Tech
Alana McDonald, Environmental Engineering Tech
Rod Wilmot, GIS/Systems Supervisor

◆ **External Contracts** ◆

Mike Doughty, Intermediate Hydrogeologist – YPDT*
Richard Gerber, Senior Hydrogeologist – YPDT*
Steve Holysh, Senior Hydrogeologist – YPDT*
Mason Marchildon, Water Resources Engineer –YPDT*
Britt Smith, Groundwater Management Analyst-YPDT*

*YPDT – York, Peel, Durham, Toronto Groundwater Program

Budget Presentation

The Budget format is organized into Central Lake Ontario's Program Units. Each unit is intended to reflect all associated (direct and measurable) costs and revenues.

- A. Watershed Management & Health Monitoring - Program costs and revenues required to develop the framework and management strategy to provide a rational approach to natural systems protection, restoration and use. Also included in this unit is the operation and maintenance of the flood forecasting system, the watershed monitoring program, a number of restoration projects across the watershed supported by federal and provincial grants, and capital projects such as watershed plans, source protection planning, various groundwater studies and research and a number of provincial grant contracts administered by CLOCA.
- B. Oak Ridges Moraine Toronto Groundwater Program - YPDT - As part of an ongoing contribution, CLOCA administers a number of contracts on behalf of the Conservation Authorities Moraine Coalition and the Regions of Durham, Peel and York and the City of Toronto. Five staff (YPDT staff) for this initiative are housed in rental offices within the TRCA office.
- C. Environmental Plan Review & Regulation Services - Program costs and revenues associated with the provision of plan input to municipalities for development applications. Plan input includes the review and analysis of planning applications as these applications may impact on natural hazards, natural heritage resources and water resources as well as circulations under the Environmental Assessment Act. Included in this unit are updates to floodplain mapping and the ongoing identification and associated data management for natural hazards. The Program also includes the implementation of Ontario Regulation 42/06 (Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses), which is required in order to ensure the integrity of the Authority's flood plain management program under the Conservation Authorities Act and the regulations made thereunder. Finally, this program unit includes the development and maintenance of policy and procedural directions for efficient and effective environmental plan review and regulation services.
- D. Community Engagement - Stewardship, Outreach, Education and Communication programs include the direct costs, revenues and partnerships associated with the development and delivery of a suite of environmental programs that broaden CLOCA's relationships with the community. Our stewardship programs focus on public and private lands contributing to improving watershed health and function. Outreach events like the Annual Purple Woods Maple Syrup Festival and seasonal hikes allow us to showcase our Conservation Areas and establish partnerships with the community. Our education programs target grades 1 to 12 incorporating curriculum learning outcomes to ensure we are relevant to the 4 school boards we service. Our communication products include managing an active website and ongoing creation and updating of printed, electronic, social media and Conservation Area signage.
- E. Land Management - Program costs and revenues associated with assets owned or managed by the Authority and provide green space for residents of Durham Region. Also includes land acquisition and development of conservation areas, land management planning and special projects in conservation areas.

- F. Vehicles and Equipment - Costs and revenues associated with new acquisitions and the operation of the Authority's motor pool, and equipment required for the on-going work of the Authority. Internal charges are made to the various projects and programs for the use of vehicles and equipment.
- G. Corporate Services - Corporate Services Includes management and non-direct program specific costs, governance, head office operations, audit, legal, human resources, health and safety and the costs of GIS/IT support, Information Management Systems and the continuous improvement of the Enterprise GIS for the dissemination, integration and analysis of data throughout the organization.

BUDGET ASSUMPTIONS

Wages & Benefits

- As approved by Board of Directors on April 16, 2019.

Regional Operating Levy

- As approved by Durham Region Council on February 11, 2020.

MNRF Transfer Payments

- MNRF transfer payments for natural hazard management reported in the budget continue to reflect the 50% reduction in payments which took effect in 2019.

Ontario Government Funding

- Will continue the Source Water Protection initiative.

User Fees

- Authority fees for administration, plan review and regulation, community outreach and conservation areas/facility fees are based on a fee schedule approved by the Board of Directors on November 19, 2019.

Miscellaneous

- The Authority supports the York Peel Durham Toronto Groundwater Program across the GTA by providing payroll and administrative services.
- The Authority utilizes government employment grants wherever feasible.

| Central Lake Ontario Conservation Authority | | | | |
|--|------------------------|------------------------|------------------------|------------------------|
| Consolidated Statement of Operations | | | | |
| | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Revenue | | | | |
| General Levy | 4,068,185 | 3,917,710 | 3,917,712 | 3,822,155 |
| Municipal Special Levy | 385,000 | 404,525 | 359,118 | 192,801 |
| MNR Transfer Payment | 64,445 | 64,445 | 64,445 | 124,833 |
| Other Grants Federal | 73,000 | 144,700 | 86,279 | 117,952 |
| Other Grants Provincial | - | 54,850 | 59,025 | 62,656 |
| Other Revenue | 211,580 | 365,255 | 443,617 | 343,479 |
| Other Grants | 60,000 | - | - | 6,304 |
| Reserve Transfer | (49,750) | (8,508) | (52,079) | (16,641) |
| Deferred Revenue | 228,210 | 54,100 | 13,142 | (44,387) |
| Interest Earned | 46,750 | 46,750 | 76,476 | 56,668 |
| Administrative Services | 29,400 | 27,500 | 32,549 | 35,255 |
| Sandbox Demo | - | - | 1,111 | 1,334 |
| Environmental Plan Review & Regulation Services | | | | |
| Plan Review Fees | 785,000 | 785,000 | 726,700 | 809,763 |
| Fill Sites Large Application Fees | 40,000 | 120,000 | 27,020 | - |
| Regulations 42/06 Permit | 380,000 | 380,000 | 381,083 | 439,725 |
| Property Inquiry Fee | 20,000 | 20,000 | 19,705 | 27,140 |
| Map Sales | 7,000 | 5,000 | 9,580 | 5,710 |
| Reports & Photocopy trail guides | - | - | 1,040 | 595 |
| Community Engagement | | | | |
| Education Fees | 3,100 | 66,000 | 65,555 | 77,537 |
| Maple Syrup Tours | - | 10,000 | 8,823 | 13,100 |
| Admission Fees - Purple Woods Maple Syrup Festival | 2,000 | 41,000 | 48,229 | 55,158 |
| Maple Syrup Sales | 25,000 | 35,000 | 40,200 | 42,704 |
| Maple syrup sales office | 6,000 | 7,000 | 6,713 | 6,018 |
| Product Sales | 10,000 | 14,000 | 15,679 | 14,593 |
| Community Pancake sales | - | 30,000 | 31,577 | 38,786 |
| CLOCA Days Pancake sales | 780 | 3,800 | 5,793 | 3,796 |
| Land Management | | | | |
| Pay & Display | 120,530 | 111,000 | 137,896 | 129,700 |
| Seasons Passes | 20,000 | 20,000 | 22,131 | 22,240 |
| Donations | 73,200 | 120,000 | 158,841 | 156,648 |
| Property Rental | 59,350 | 58,680 | 63,042 | 59,822 |
| Facility Rental Fees | 2,000 | 16,500 | 16,939 | 18,825 |
| Commercial Rent Signs | 7,200 | 7,200 | 7,233 | 7,233 |
| Vehicle/Equipment Sales | - | - | 6,238 | - |
| Rental Recovery | 117,450 | 117,450 | 112,491 | 122,553 |
| Oak Ridges Moraine Groundwater Program (YPDT) | | | | |
| Other Revenue (YPDT) | 700,000 | 802,400 | 880,607 | 918,308 |
| Consulting Revenue | - | 7,200 | - | 54,155 |
| Website/Portal Access Fee | 50,000 | - | 69,315 | - |
| | 7,545,430 | 7,848,557 | 7,863,826 | 7,726,516 |

CENTRAL LAKE ONTARIO CONSERVATION 2020 BUDGET

| Central Lake Ontario Conservation Authority | | | | |
|--|------------------|------------------|------------------|------------------|
| Consolidated Statement of Operations | | | | |
| | 2020 | 2019 | 2019 | 2018 |
| Cost and Expenditures | Budget | Budget | Actual | Actual |
| Salaries, Wages & Benefits | | | | |
| Salaries & Wages | 4,391,400 | 4,492,750 | 4,369,786 | 4,047,449 |
| Salaries & Wages - PWMSF | 3,400 | 20,400 | 21,033 | 19,093 |
| Salaries & Wages - Summer Student Program | 44,200 | 134,720 | 133,410 | 132,312 |
| Benefits | 1,194,550 | 1,168,725 | 1,136,713 | 1,057,738 |
| Future Benefit Expense | - | 10,000 | 10,000 | 20,000 |
| Members Per Diems | 8,500 | 8,500 | 7,500 | 5,800 |
| Administration | | | | |
| Office Supplies/Postage/Promotion | 8,475 | 8,500 | 8,819 | 12,424 |
| Staff Mileage | 23,300 | 14,900 | 13,049 | 13,019 |
| Administration Expense | 29,405 | 27,920 | 31,766 | 34,829 |
| Course Registration | 41,700 | 46,800 | 49,018 | 39,348 |
| Publications & Subscriptions | 41,820 | 47,120 | 34,991 | 32,089 |
| Printing | 9,000 | 9,000 | 8,673 | 8,415 |
| Software | 64,425 | 60,775 | 69,648 | 41,859 |
| Services | 329,700 | 414,275 | 551,809 | 467,271 |
| Cellular | 18,645 | 19,905 | 18,704 | 18,078 |
| Travel | 19,285 | 23,410 | 19,974 | 24,472 |
| Payroll Processing Fees | 8,525 | 8,475 | 9,014 | 8,453 |
| Audit Fees | 27,000 | 24,600 | 24,814 | 22,737 |
| Bank Service Charges | 9,420 | 10,425 | 12,256 | 10,600 |
| Insurance | 92,480 | 74,310 | 79,253 | 72,400 |
| Legal Fees | 90,000 | 65,000 | 43,958 | 76,586 |
| Donation | 400 | 7,400 | 7,628 | 8,801 |
| Materials & Supplies | 151,965 | 200,090 | 142,718 | 187,260 |
| Water Sample Testing | 34,700 | 34,700 | 35,009 | 34,051 |
| Uniform Purchases | 4,200 | 7,300 | 8,033 | 7,729 |
| Consultant | 57,335 | 151,977 | 193,181 | 56,969 |
| ACAO Levy | 33,800 | 32,550 | 32,550 | 31,115 |
| Utilities | | | | |
| Telephone | 14,875 | 15,875 | 14,840 | 14,335 |
| Hydro | 37,700 | 36,250 | 33,608 | 32,299 |
| Alarm | 3,975 | 3,975 | 3,862 | 3,862 |
| Water | 4,600 | 4,500 | 4,600 | 4,350 |
| Gas | 12,700 | 12,000 | 13,077 | 11,796 |
| Taxes | 48,255 | 46,805 | 45,321 | 45,452 |
| Land Management | | | | |
| Pay & Display Software Monitoring Fees | 4,800 | 4,800 | 4,762 | 4,498 |
| Construction Contracts | 4,000 | 29,000 | 29,000 | 68,801 |
| Equipment Rental | 15,300 | 21,500 | 19,398 | 20,934 |
| Equipment/Capital Assets | 457,220 | 291,875 | 288,734 | 333,827 |
| Small Tools | 3,000 | 3,000 | 1,719 | 1,259 |
| Land Acquisition | - | - | - | 29,479 |
| Vehicle & Equipment | | | | |
| Vehicle Purchases | 26,000 | 26,000 | 25,982 | 51,497 |
| Vehicle Rental | 50 | - | - | 141 |
| Fuel | 25,725 | 31,700 | 29,511 | 32,022 |
| Licence | 2,000 | 2,000 | 1,663 | 3,149 |
| Vehicle Recovery | 105,200 | 105,200 | 101,732 | 109,992 |
| Equipment Recovery | 12,250 | 12,250 | 10,759 | 12,561 |
| Other | | | | |
| Office Services (YPDT Rent - TRCA) | 16,600 | 16,600 | 16,579 | 16,579 |
| Transportation (GWFestival) | - | 15,500 | 14,193 | 15,292 |
| Purchases for Resale - PWMSF | 9,100 | 10,000 | 10,235 | 9,342 |
| Bulk for Resale - PWMSF | 2,700 | 15,200 | 7,016 | 11,273 |
| Pancake Group Expenses - PWMSF | 1,750 | 20,000 | 19,316 | 22,838 |
| | 7,545,430 | 7,848,557 | 7,769,213 | 7,346,473 |
| Surplus(Deficit) from Operations | - | 0 | 94,613 | 380,044 |

Watershed Management & Health Monitoring

PROGRAM OPERATIONS

Program Operations provide overall watershed management and watershed health monitoring in order to develop a framework and management strategy for natural systems protection, restoration and use. Expertise provided by CLOCA staff in the fields of environmental engineering, ecology, hydrogeology, fish, wetland and wildlife biology, and forestry enable the development of programs and plans to prepare for anticipated future changes in the watershed and deal with the issues that are presented in the day-to-day operations of the Authority.

The Authority accomplishes its watershed objectives through involvement with stakeholders and all levels of government, providing input to the protection of natural heritage features, expanding the natural heritage database for terrestrial, fisheries, and wildlife resources. Low water and base flow surveys are building on an existing information base to ensure the best information is available. Monitoring, data collection and analysis enables trends to be documented and characterized and watershed health to be assessed.

OTHER PROGRAMS

Water Monitoring Network/Forecasting/Flood Warning

The Central Lake Ontario Conservation Authority's (CLOCA) Water Monitoring Network is a collection of stream gauges, rain gauges, air and water temperature probes, groundwater monitoring wells, snow measurement sites and surface water and groundwater quality sites. This Water Monitoring Network and the valuable information collected from it, helps us better understand and predict the impacts of land use activities on water. This knowledge allows us to make informed decisions about the management and protection of our water resources. CLOCA partners with Water Survey Canada and the Ontario Ministry of Natural Resources and Forestry for the flood forecasting and warning program and the Ministry of the Environment, Conservation and Parks for the Provincial Water Quality Monitoring Network and Provincial Groundwater Monitoring Network to reduce duplication and offset program costs. The data is catalogued and analyzed to help us develop effective watershed wide management programs and policies like our Flood Forecasting and Warning System, Low Water Response and Source Water Protection programs.

Each year we review the location of monitoring equipment and its effectiveness in recording the required data and replace outdated and inoperable equipment. Staff from the Engineering and IT/GIS departments also continue to advance several projects related to the flood forecasting and warning program. These projects are improving the automation of data retrieval from the gauge stations, data management, and reporting.

In 2019 CLOCA joined the Eastern Conservation Authorities Hub and gained access to the WISKI database for water monitoring data. This system is used provincially and provides efficient and consistent data retrieval and storage of information from our stream and precipitation gauges, groundwater wells, and stream water quality program.

Related information including gauge data and floodplain information is also being made more accessible to staff, municipal partners, and the general public through improvements to CLOCA's Web Products. Early Warning Systems are in place and will send email alerts to appropriate staff to advise of significant rainfall or water levels nearing flood conditions at various gauging stations. In 2020, four gauge stations will be updated with full telemetry equipment and updated gauging equipment. This project was approved for funding under the National Disaster Mitigation Program.

National Disaster Mitigation Program

Under the National Disaster Mitigation Program (NDMP), CLOCA receives 50% federal funding for flood mitigation projects. In 2020, CLOCA will complete stream gauge station upgrades, complete floodplain mapping of the Corbett Creek watershed in cooperation with the Town of Whitby and the Corbett Creek Master Drainage Plan, work with the City of Oshawa in the completion of the Oshawa Creek/Goodman Creek Two Zone Flood Study, and will continue to collaborate with the Ganaraska and Lower Trent Region Conservation Authorities on a Lake Ontario Shoreline Management Plan. The latter plan will provide information on flooding and erosion hazards associated with the Lake Ontario shoreline, and recommend measures to protect the shoreline and manage development.



HAZARD MAPPING**Biennial Lake Ontario Shoreline Surveys**

The Lake Ontario Shoreline Monitoring Program is a continuation of the original Canada/Ontario Great Lakes Erosion Monitoring Program that was carried out from 1973-1981 by Fisheries and Oceans Canada. Following the termination of this program in 1982 the Ministry of Natural Resources and Forestry, in partnership with the Conservation Authorities, continued to monitor the sites located within their jurisdiction.



Every other year, surveys are completed at 8 bluff features along the Lake Ontario shoreline within CLOCA's watershed. These surveys provide insight on the erosion processes that continually work against these shoreline features.

The survey data is plotted against previous years, and biennial erosion rates are calculated. The extensive period of record is important to provide significance to the data, and to provide long term trends. In 2020, CLOCA will utilize recommendations from our Shoreline Hazard Management Study to update our procedures for the shoreline erosion monitoring program.

Integrated Watershed Monitoring

CLOCA's monitoring program focuses on key indicators of watershed health and provides key information for many Authority Programs including plan review, watershed planning, conservation area management, stewardship, education and communication. Continued monitoring enables the Authority to identify changes, whether incidental or long term, in the quality and condition of the health of the watershed. Monitoring results are annually updated and made publicly available by incorporating the data into CLOCA's Watershed Monitoring Story map posted on CLOCA's website. The story map incorporates monitoring results into a multi-media context, combining maps, text and images providing an excellent source of information highlighting watershed health. The 2020 monitoring season will continue as scheduled; however, the COVID-19 pandemic will result in some modifications to the program to accommodate delayed starts, changes in summer staffing, and requirements for social distancing.

The turtle monitoring project initiated in 2019 will continue in a modified capacity in 2020. This multi-year project will provide greater detail regarding the presence and absence of these species at risk across the CLOCA jurisdiction. Data collected through this program will enable the Authority to assess population trajectories of Painted and Snapping Turtles in particular. This work may also provide insight into movement patterns and population characteristics, survivorship, sex ratios, and range sizes of turtles. The outcome of this monitoring will be the development of management strategies where possible that will help local turtle populations persist and thrive within the CLOCA jurisdiction.



Water quality and aquatic monitoring includes benthos sampling using the Ontario Benthos Bio-monitoring Network (OBBN) protocol, fish sampling in accordance with the Ontario Stream Assessment Protocol, seine netting, spring and fall spawning surveys, identification and inventory of in-stream barriers, and the collection of temperature data using portable temperature loggers to evaluate in-stream thermal regime. Much of this monitoring will continue to occur in 2020 but may be modified according to staff resources and social distancing requirements. Supplemental monitoring will be undertaken in other watersheds, as a result of openings in the schedule that have come as a result of the modifications alluded to the above.

Bird, amphibian, forest and other terrestrial monitoring also provide indications of watershed health, and are also integral to the CLOCA Integrated Watershed Monitoring Program. Long-term monitoring of these conservation targets will continue through 2020. As in past years, work will also continue on invasive species monitoring and programming throughout the jurisdiction, with an emphasis on conducting invasive species management projects within CLOCA Conservation Areas. These monitoring activities will continue status quo through 2020 given the solitary nature of this work and the ability to use existing staff compliments.

Provincial Groundwater Monitoring Network

Groundwater well monitoring equipment is checked regularly to ensure proper functioning and data is collected, reviewed and analyzed quarterly providing input to the YPDT shared database as well as the provincial online database. Through the YPDT- CAMC municipal/ C.A. initiative, the data is available to the regional staff and support both municipal Works and Health departments groundwater analyses and programs. Data from monitoring wells support groundwater characterization and water budget modelling activities. Processed data are also provided to the Region in response to private citizen inquiries.



CLOCA currently maintains 15 wells under the Provincial Groundwater Monitoring Network (PGMN). These monitoring wells provide continuous water level data recorded hourly by the installed level loggers.

Water quality samples are also collected and analyzed annually from these wells. These analyses were conducted twice a year since the start of the program in 2002 until 2010. In 2011, with this established solid baseline, water quality sampling shifted to once a year. PGMN wells have over 15 years of water level and quality records.

MECP is working to make groundwater data records more accessible and is moving to a standard provincial database that will be accessible to the Conservation Authority partners and the public.

Durham Region Coastal Wetland Monitoring Program

Long-term monitoring of 18 coastal wetlands across Durham Region will continue in 2020 but some modifications to the program will be required to accommodate delayed starts, changes in summer staffing, and requirements for social distancing as a result of the conditions imposed by the COVID-19 pandemic. A range of stakeholders including Environment Canada, neighbouring Conservation Authorities and local volunteers assist with data collection. The information and data gained through monitoring of these wetlands provides valuable information to assess watershed and coastal wetland health in Durham Region. This monitoring program captures the response and success of restoration and management actions undertaken like the work at Cranberry Marsh and Carruthers Marsh, and provides significant data from which projects such as the McLaughlin Bay Restoration Strategy, Lynde Shores and Bowmanville Marsh restoration plans rely upon. In 2020, CLOCA staff will continue to prepare Wetland Conditions and Management Reports for a number of the coastal wetlands. These reports document and synthesize monitoring information collected to date, providing an assessment of wetland health to help direct future management recommendations.

**Watershed Planning**

An update to CLOCA's 4 watershed plans got underway in 2018 with significant public, stakeholder, agency and municipal consultation conducted. This update recognizes the updated urban, rural and natural environment conditions present in the watershed, considers potential future growth, planning policy requirements, climate change and presents specific recommendations to protect CLOCA's natural resources.

The updated watershed plans are to be used by CLOCA, municipalities, planning authorities, agencies and other stakeholders as a definitive tool to guide decisions concerning the effective management of watershed resources in response to a changing environment. As part of these updates, CLOCA implemented a refined, science-based framework for watershed planning. This framework provides a systematic, comprehensive, and consistent process that links actions to results and ultimate outcomes.

Draft watershed plans for Lynde Creek, Oshawa Creek, Black Harmony Farewell Creeks, and Bowmanville Soper Creeks were presented to partner municipalities, stakeholders, and the public in late 2019. The results

of this review and consultation will be incorporated into the final watershed plan updates and finalized in 2020. Work towards implementation of the recommendations will also continue through 2020.

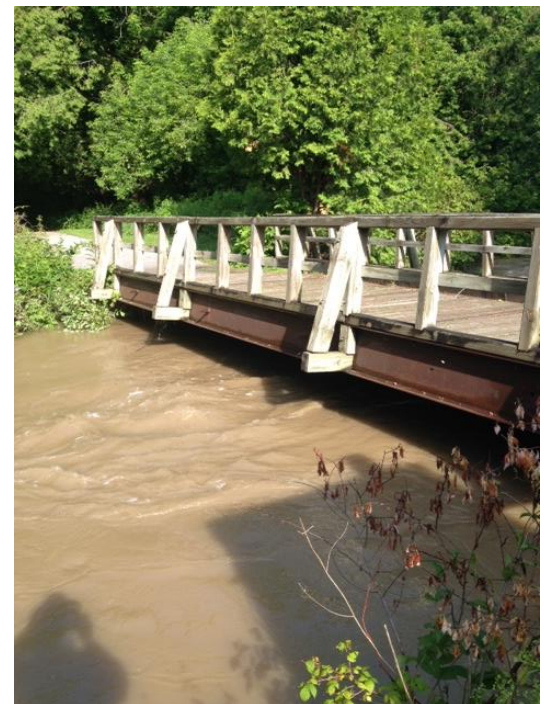
Source Water Protection Plans

The Source Water Protection (SWP) initiative commenced in 2005, following recommendations made to Justice O'Connor after the Walkerton drinking water tragedy in May 2000. Conservation Authorities received funding from the Province of Ontario to complete technical Assessment Reports (ARs) and a SWP Plan based on the findings presented in the AR. The Central Lake Ontario Source Protection Authority's (CLOSPA) AR was completed and approved by the Province in November of 2011. Work on the SWP Plan started in 2011 and included several rounds of consultation with municipalities and various affected stakeholders. The Source Protection Plan (SPP) was approved by the Ministry of Environment and Climate Change on August 14, 2015 and took effect on December 31, 2015. The SPP consists of several policies to manage or eliminate significant threats to drinking water sources that were identified in the provincially approved Assessment Reports. Staff of the Credit Valley, Toronto and Region, Central Lake Source Protection Region (CTC SPR) have been working with member municipalities since 2012, consulting on the plan and holding workshops and meetings to assist with the understanding and implementation of the plan. The CTC and CLOSPA staff will continue during the implementation period to work with municipal and other personnel to ensure they fully understand their responsibilities under the SPP and to provide support and tools, as necessary. The CTC and CLOSPA staff will continue their work on the CTC SPR Data Portal. The portal will provide a centralized location to house, search and retrieve all of the CTC's related documents, reports, correspondence, and spatial information. In addition, the portal will provide mapping and access to metadata and spatial information.

Hazard Studies

CLOCA staff will continue to update digital erosion hazard mapping for stream and valley systems. The erosion hazards include valley features, steep slope allowances, stream erosion allowances, and meander belts; all-natural hazards that are used in the determination of our Regulation Limits. The completion of the digital erosion hazards will assist applicants with determining the applicable hazards on property.

CLOCA staff will also work towards the completion of return period flood mapping. This product provides CLOCA and partners with information on the most vulnerable flood locations including homes and businesses, and roads and culverts/bridges.



Climate Change

CLOCA is working on a number of fronts to advance our scientific and adaptation knowledge with respect to climate change. Through our watershed plan review and update process, CLOCA will be taking a more detailed examination of the impacts of climate change on watershed processes, including the identification of climate change adaptation practices that will help lessen these impacts. In partnership with Durham Region, CLOCA has been working in a leadership capacity with the flooding and natural heritage sector climate change adaptation work identified in “Towards Resilience”. This includes work on development of an updated climate change ensemble model for Durham Region, incorporation of climate change considerations within municipal and regional plans, policies and operational plans, initiating the development of a climate resilient natural heritage system through the integration of climate impacts on natural features and functions. CLOCA will be working closely with Durham Region and other partners as the updated regional climate change model is finalized in early 2020. Once finalized, the updated model will be used to inform climate change related programs throughout 2020 and into the future.

Lynde Shores – Shisko Wetland Restoration

Located south of Victoria, east of Halls Road, a seasonally wet area was identified as the preferred location for a wetland restoration project required as part of the required compensation for widening of Victoria Road through the Lynde Shores Conservation Area. CLOCA staff continue to be involved in the development of the Shisko Wetland Restoration and will utilize this project to also provide additional parking and trail features for our Conservation Area visitors. In 2020, CLOCA anticipates the restoration work get underway. To further enhance wetland and aquatic habitat functions CLOCA will pursue additional opportunities to expand upon this wetland feature.

Heber Down – Habitat Compensation Project

The Ontario Ministry of Transportation will be entering into an agreement with CLOCA to undertake creek and wetland restoration work within Heber Down Conservation Area as part of species at risk compensation work required through the 407 East project. CLOCA will be working through to design, contract, and begin to implement this important project 2020. Once completed, the project will result in significant creek naturalization, wetland creation and other improvements to Devil’s Den pond, and reduce the impact of public use infrastructure (for example bridge crossings) on habitat features within the conservation area.

Oshawa Second Marsh Management Plan

The original management plan for Oshawa Second Marsh is over 20 years old and has been beneficial in directing restoration and management activities. Yet this marsh continues to be significantly influenced by anthropogenic inputs, invasive species, climate change, and Lake Ontario water level regulation. To address these and potential future threats, an update to the management plan has been initiated. This work will identify new adaptive management techniques and tools which will help to ensure the marsh and its habitat remains healthy, diverse and productive.



CLOCA, as a member of the Second Marsh Steering Committee will continue to participate and guide the preparation of a management plan for Oshawa Second Marsh. With funding from the City of Oshawa, this work is being conducted by a consultant. In 2020 the draft management plan, which will include a forest management plan and invasive species management plan, will be completed and made available for consultation.

CLOCA Restoration Planning and Implementation

The CLOCA Restoration Prioritization Plan is a mapping tool that identifies and prioritizes restoration opportunities that will improve and strengthen CLOCA's natural heritage system and overall watershed health in the most efficient and cost-effective manner. The development of this tool utilizes CLOCA's NHS mapping, ELC mapping and watershed healthy indicators and can be used at a watershed scale or at the site level. The information supporting this mapping will be continuously updated consistent with regular updates of CLOCA's mapping and will be available publicly, supporting watershed stakeholder and municipal restoration initiatives. Complementary to this tool will be the development of a Conservation and Restoration Planning Framework in 2020 that will support successful implementation of restoration projects. With these and other important tools and strategies in place, CLOCA will be working to further build its restoration program through 2020. In addition to implementation of restoration projects on CLOCA conservation lands, CLOCA will be looking to enhance its private land stewardship programming with the development of a Restoration Guideline. Work on these guidelines will begin in 2020.

CENTRAL LAKE ONTARIO CONSERVATION 2020 BUDGET

| Watershed Management | | | | |
|---|------------------------|------------------------|------------------------|------------------------|
| Revenue | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| General Levy | 924,175 | 943,402 | 851,104 | 809,615 |
| Municipal Special Levy - Other | 150,000 | 268,275 | 222,868 | 56,925 |
| Grants/Transfer Payments | | | | |
| MNR Transfer Payment | 28,500 | 22,500 | 22,500 | 45,000 |
| Federal Grants | 3,000 | 89,900 | 82,359 | 44,690 |
| Provincial Grants | 0 | 34,850 | 38,147 | 46,449 |
| Other Grants | 60,000 | 0 | 0 | 0 |
| Donations | 0 | 0 | 24,860 | 0 |
| Self Generated | | | | |
| Education Fees | 0 | 0 | 1,634 | 1,373 |
| Other Revenue | 80,180 | 219,905 | 257,669 | 111,479 |
| Deferred Revenue | 63,085 | 9,675 | -53,599 | 11,830 |
| | 1,308,940 | 1,588,507 | 1,447,542 | 1,127,360 |
| Cost and Expenditures | | | | |
| Salaries & Benefits | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Salaries & Wages | 771,550 | 820,650 | 709,535 | 647,225 |
| Salaries & Wages - Summer Student Program | 9,000 | 73,420 | 72,338 | 72,374 |
| Benefits | 214,800 | 221,325 | 195,594 | 173,325 |
| Operating Expenses | | | | |
| Promotion | - | - | 105 | 84 |
| Travel | 2,650 | 3,310 | 2,138 | 2,864 |
| Staff Mileage | 3,755 | 3,500 | 2,285 | 2,720 |
| Course Registration | 6,500 | 8,000 | 4,205 | 13,032 |
| Postage | 200 | 250 | 631 | 256 |
| Materials & Supplies | 58,800 | 33,750 | 8,976 | 15,090 |
| Publications & Subscriptions | 1,720 | 4,720 | 6,352 | 2,140 |
| Software | 18,275 | 21,925 | 20,537 | 8,098 |
| Services | 32,300 | 88,005 | 85,010 | 59,569 |
| Cellular | 4,955 | 5,325 | 5,288 | 4,791 |
| Telephone | 1,600 | 1,650 | 1,666 | 1,505 |
| Insurance | 750 | 425 | 547 | 391 |
| Water Quality Testing | 34,500 | 34,500 | 34,589 | 33,631 |
| Consulting | 57,335 | 144,477 | 161,624 | 25,720 |
| Equipment Rental | - | 6,200 | 5,221 | 5,520 |
| Fuel | 700 | | | 962 |
| Vehicle/Equipment Recovery | 26,100 | 26,100 | 22,877 | 25,728 |
| Equipment/Capital Assets | 63,450 | 90,375 | 106,862 | 32,336 |
| | 1,308,940 | 1,588,507 | 1,447,542 | 1,127,360 |

ORMGP (Oak Ridges Moraine Groundwater Program)

Formerly known as YPDT (York, Peel, Durham & Toronto Groundwater Study)

As part of an ongoing contribution, CLOCA administers several contracts on behalf of the Oak Ridges Moraine Groundwater Program, a joint program of the Regions of Durham, Peel and York and the City of Toronto as well as their respective Conservation Authorities. Five staff for this initiative are housed in rental offices within the TRCA office at Highway 407 and Jane St. A review of the projects is summarized below.

ORM (YPDT) Groundwater Study

This ongoing partnership between the Regions of Durham, York, Peel, the City of Toronto, and their associated Conservation Authorities continues to provide technical hydrogeological support to the 13 agencies partnered in the program. In 2020, work will continue on a number of initiatives related to one of the four current program areas: 1) database, 2) geology, 3) modelling, and/or 4) website. Some of the tasks that are in the 2020 work plan include:



- Provide technical expertise to the partner agencies as requested.
- Work with City of Toronto staff to increase awareness of ORMGP data/information and website access so that City staff can: i) effectively implement their Groundwater strategy; ii) plan for future developments to minimize interactions with the groundwater system; and iii) adequately manage groundwater that is being pumped from deep excavations;
- Increase awareness of the program's website with an aim of attracting new partnerships with consultants and other smaller municipalities to foster greater use of the program's data and information.
- Provide technical oversight and insight into the ongoing numerical modelling updates in Durham and Peel Regions which should be largely completed in 2020.
- Continue to harmonize the program's interpretations (geology and hydrogeology) across the entire ORMGP area by incorporating new well data as well as information from numerical model studies (i.e. data enhancements, hydrological/hydrogeological insights, etc.) which will provide a framework/interpretation that partner agency/consultant staff can use to gain an initial regional understanding of local study area conditions;
- Working with existing agency and consultant partners, as well as with new consultant partners, to improve the program's data and interpretations.
- Continued growth of the program database with incorporation of new boreholes and temporal data (water levels, pumping, chemistry, etc.).

- Continued improvement in the program website with new/updated mapping (e.g. addition of maps to the website scheduled for 2020 (for example 2020 will see the addition of GW discharge area mapping, vertical hydraulic gradient mapping, providing access to consultant and other rarer/difficult to find borehole logs, etc.);
- Continued improvement in the program website with new analysis tools available (e.g. improved hydrograph analyses; better watershed characterization; more robust water budgeting, linking groundwater levels to climate and pumping records, improved searching of library documents; clipping data from the website for export, etc.).
- Development of additional tools to manage the transfer of data from external partners to the master database on the program's Citrix platform.
- Working with partner agencies to incorporate geotechnical and hydrogeological reports and data into the program's library.
- Collection and incorporation of high-quality data from select monitoring sites across the program study area.

| ORMP - Oak Ridges Moraine Groundwater Program (YPDT) | | | | |
|---|------------------------|------------------------|------------------------|------------------------|
| | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Revenue | | | | |
| Other Revenue | 700,000 | 802,400 | 880,607 | 918,308 |
| Deferred Revenue | 85,625 | 31,300 | 68,495 | (17,503) |
| Consulting Revenue | - | 7,200 | - | - |
| Website/Portal Access Fee | 50,000 | - | 69,315 | 54,155 |
| | 835,625 | 840,900 | 1,018,417 | 954,960 |
| Cost and Expenditures | | | | |
| Salaries & Wages | 550,800 | 601,250 | 595,568 | 601,825 |
| Benefits | 136,500 | 140,850 | 142,119 | 137,693 |
| Future Benefit Expense | - | 10,000 | 10,000 | 20,000 |
| Staff Mileage | 2,000 | 1,000 | 1,203 | 1,327 |
| Administration Expense | 10,800 | 10,500 | 14,346 | 17,829 |
| Course Registration | 6,000 | 3,000 | 5,712 | 3,276 |
| Postage | 25 | 25 | - | 12 |
| Materials & Supplies | - | - | 1,418 | 1,149 |
| Publications & Subscriptions | 3,500 | 8,500 | 4,863 | 8,403 |
| Software | 20,000 | 12,500 | 17,880 | 14,398 |
| Services | 45,000 | 1,000 | 141,342 | 75,381 |
| Fuel | 4,000 | 4,000 | 3,512 | 3,670 |
| Telephone | 3,000 | 3,000 | 3,053 | 3,056 |
| Cellular | 3,500 | 3,500 | 3,208 | 2,947 |
| Travel | 12,000 | 14,000 | 11,110 | 12,026 |
| Insurance | 2,200 | 2,000 | 1,953 | 1,837 |
| Legal Fees | | | | 1,603 |
| Audit Fees | 3,300 | 3,000 | 3,000 | 3,000 |
| Bank Service Charges | 300 | 175 | 214 | 191 |
| Licence | - | - | - | 480 |
| Payroll Processing Fees | 1,100 | 1,000 | 1,079 | 979 |
| Office Services | 16,600 | 16,600 | 16,579 | 16,579 |
| Equipment Purchases | 15,000 | 5,000 | 40,158 | 26,731 |
| Vehicle Recovery | - | - | 100 | 568 |
| | 835,625 | 840,900 | 1,018,417 | 954,960 |

Environmental Plan Review & Regulation Services

PROGRAM OPERATIONS - MUNICIPAL PLAN REVIEW

The purpose is to promote the Authority's watershed resource management interests through the provision of technical analysis and comments on land use planning proposals, development applications, and public infrastructure projects. Complementary work includes the continuous review and updating of natural hazard limits associated with flood plains, stream erosion, steep slopes, meander belts and Lake Ontario shoreline including associated planning and procedural policy directions.



2020 Program:

- Continuing Memorandum of Understanding (MOU) partnership with the Region of Durham to provide plan review advice on watershed management, natural heritage and natural hazard planning and the implementation of the 'One-Window' MOU with the Ministry of Municipal Affairs and Housing regarding hazard lands.
- Consistent with previous years, it is anticipated that the Authority will review and provide comments on over 200 planning applications and supporting technical reports of various scales and locations.
- Implementation of the updated Fee Schedule for Planning Services including efficient revenue collection and alignment of service needs with staff capacity to maintain quality of service.
- Update CLOCA's Policy and Procedural Document for Regulation and Plan Review to update policy directions, streamline and add clarity wherever possible including conformity with the Provincial Greenbelt Plan, Growth Plan for the Greater Golden Horseshoe and Oak Ridges Moraine Conservation Plan.
- Authority staff will continue to support CLOCA's watershed and partner interests through working groups/committees with municipal and development representatives dealing with Official Plan reviews, Master Environmental Servicing Plans, sub-watershed planning, storm water management and environmental issues, including but not limited to:
 - Municipality of Clarington - Clarington Comprehensive Zoning By-law review and Secondary Plans;
 - City of Oshawa – Northwood Planning Area, Kedron Planning Area, and Columbus Sub watershed Study and Part II Planning Study, South Oshawa Planning Appeals related to Significant Wildlife Habitat for Monarch Butterflies;
 - Town of Whitby – Brooklin Secondary Plan and Implementing Servicing and Block Planning;
 - Region of Durham Official Plan Update and Provincial Plan Conformity.
- Integrate climate change considerations into day-to-day review of development applications with an emphasis on promoting resilience through effective flood control, thermal mitigation, and low impact development storm water management techniques, landscape design for vegetation protection zones and stream corridor enhancement opportunities.

- Ensure timely responses for application review in line with Conservation Ontario guidelines and assess performance against Strategic Plan Implementation performance measures while building staff capacity.
- Transition archived planning files to electronic format accessible through CLOCA's CADIMS platform.

PROGRAM OPERATIONS - REGULATIONS

The Regulations program is designed to protect both the public and property from flood and erosion hazards as well as wetlands and watercourses through the review and permitting of applications for Development, Interference with Wetlands & Alterations to Shorelines & Watercourses (Conservation Authorities Act - Ontario Regulation 42/06).

2020 Program:

- Approval and maintenance of Ontario Regulation 42/06 mapping as required.
- Consistent with previous years, it is anticipated that the Authority will review and make decisions on over 200 permit applications.
- Implementation of the updated Fee Schedule for Regulation Services including efficient revenue collection
- On-going enforcement and court appearances.
- On-going review and maintenance of guidelines to provide consistent standards for the administration of the Authority's Regulation, Ontario Regulation 42/06.
- Review and provide advice on the finalized Provincial Excess Soil Management Framework and subsequent implementation actions including liaison with municipal planning and engineering staff.

STUDIES

CLOCA will continue to review and provide comments on a number of special studies and environmental assessments for proposed infrastructure within our watershed to ensure protection of natural resources and address natural hazards.

| Environmental Plan Review & Regulation Services | | | | |
|--|------------------------|------------------------|------------------------|------------------------|
| | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Revenue | | | | |
| General Levy | 423,930 | 332,400 | 405,918 | 54,598 |
| Grants/Transfer Payments | | | | |
| MNR Transfer Payment | 25,000 | 31,000 | 31,000 | 62,000 |
| Federal Grants | | | | 1,680 |
| Self Generated | | | | |
| Map Sales | 7,000 | 5,000 | 9,580 | 5,710 |
| Reports & Photocopy Trail Guides | 0 | | 1,040 | 595 |
| Property Inquiry Fee | 20,000 | 20,000 | 19,705 | 27,140 |
| Regulations 42/06 Permit | 380,000 | 380,000 | 381,082 | 439,725 |
| Plan Review Fees | 785,000 | 785,000 | 726,700 | 809,763 |
| Fill Sites Large Application Fees | 0 | 50,000 | 0 | 0 |
| Other Revenue | 0 | 0 | 11,793 | 40,555 |
| Deferred Revenue | 0 | 0 | 0 | 32,839 |
| | 1,640,930 | 1,603,400 | 1,586,818 | 1,474,605 |
| Cost and Expenditures | | | | |
| Salaries & Benefits | | | | |
| Salaries & Wages | 1,178,400 | 1,171,700 | 1,162,261 | 1,007,131 |
| Benefits | 319,000 | 308,700 | 306,401 | 277,539 |
| Office Administration | | | | |
| Promotion | - | - | 125 | 30 |
| Travel | 1,500 | 1,500 | 1,823 | 3,111 |
| Staff Mileage | 5,500 | 7,500 | 5,806 | 5,587 |
| Course Registration | 5,000 | 5,000 | 4,575 | 5,070 |
| Postage | - | - | 66 | 64 |
| Materials & Supplies | 600 | 600 | 1,218 | 1,282 |
| Publications & Subscriptions | 12,100 | 12,100 | 4,713 | 5,141 |
| Software | 4,500 | 7,200 | 7,616 | 5,319 |
| Services | 500 | - | 12,504 | 43,748 |
| Telephone | - | 1,000 | 0 | 6 |
| Cellular | 1,830 | 2,100 | 1,978 | 2,251 |
| Insurance | 30,500 | 22,000 | 21,863 | 23,262 |
| Legal Fees | 75,000 | 50,000 | 27,475 | 57,265 |
| Consulting | - | 7,500 | 24,651 | 29,875 |
| Equipment/Capital Assets | - | - | - | 911 |
| Vehicle/Equipment Recovery | 6,500 | 6,500 | 3,744 | 7,012 |
| | 1,640,930 | 1,603,400 | 1,586,818 | 1,474,605 |

Community Engagement

STEWARDSHIP

The stewardship program costs and revenues are those associated with staff resources necessary to provide services and/or technical assistance to private and public landowners and environmental organizations on call to action projects contributing to improvements in overall watershed health. Through the watershed planning process, natural heritage strategy, fisheries and resource management plans, the Authority makes recommendations where specific stewardship initiatives would result in achieving watershed indicator targets. Technical assistance is provided, and partner funding sought for implementing priority stewardship projects. Typically, the majority of stewardship projects focus on tree planting.

Watershed Restoration Program

New for 2020, this program will contribute to improving watershed health by coordinating and delivering restoration projects on public and private lands in our jurisdiction. The priorities will focus on opportunities to deliver low impact development and green infrastructure projects, creation and restoration of wetlands, forests, streams, erosion control enhancement using naturalization, bioengineering and natural channel design.

Well Decommissioning Program

CLOCA re-introduced the Well Decommissioning Program in 2017 providing technical and financial assistance to landowners in our jurisdiction. An abandoned well can allow for surface runoff to flow directly to local and regional aquifers, potentially carrying organic waste, fertilizers, chemical residues including pesticides and petroleum products to groundwater. In 2020, there are 7 approved applications and staff are waiting for final signatures from the licensed contractor to issue the grants. Information about the service, application and brochure will continue to be distributed to municipalities and landowners online and at community events.

Increasing Watershed Tree Cover

Our efforts continued in 2019 to re-establish missing forests and strengthen existing ones providing a well-connected natural heritage system to store carbon while contributing to overall biodiversity for a variety of wildlife. In 2019 we planted 900 native trees to restore one half hectare of land. We are grateful to our planting partners, TD Tree Days, Highway of Heroes Tribute, Municipality of Clarington (Trees for Rural Roads), Forests Ontario and Tree Canada. Public and volunteer tree plantings for Earth Day in the spring and TD Tree Days in the fall have been cancelled for 2020.

Highway of Heroes Tribute (New for 2020)

In 2019 we established a partnership with the Highway of Heroes Tribute organization and neighboring conservation authorities with watersheds along the 401, to deliver planting projects on private land. In 2020, we identified marginal and retired agriculture lands in the Bowmanville Soper Creek watershed to improve forest and interior forest cover targets to support increasing natural cover.

Clarington Trees for Rural Roads

The Clarington Trees for Rural Roads has planted more than 5,000 trees along rural roads in the municipality since it began in 2012. The program has many benefits aside from improving the aesthetics of the rural countryside, it increases tree canopy and provides wildlife habitat. We continued to partner with the Municipality of Clarington in 2020 to deliver this program with the Ganaraska Conservation Authority. In 2020 we approved 15 projects with 3 returning landowners and new for this year, provided native shrubs as an option to landowners with property constraints associated with hydro infrastructure. Due to the pandemic, Clarington staff delivered the trees to individual landowners, rather than the typical tree pickup at the municipal works yard.

Forest Tending and Management

Forest management actions continue through the services of a Registered Professional Forester (RPF) in 2020, who will deliver a tending and thinning contract on Enniskillen and Rodger’s Tracts respectively.

Home Improvement Program (HIP)

CLOCA staff continue to work with schools, volunteers, community organizations and naturalist groups to build and install a variety of habitat features including bird and insect boxes, pollinator gardens and turtle nesting protection structures at Conservation Areas, school yards and parkland. As well we work with volunteers and corporations to make improvements to our Conservation Areas which includes working on trails, signage, bridges, fencing and planting native plants. In 2020 we established a new partnership with the Durham Region Field Naturalists and the Durham Christian High School to assist with bird box maintenance, monitoring in our Conservation Areas.



Invasive Species Management

CLOCA continues to implement its Invasive Species Management Strategy within our conservation land holdings and in partnership with municipalities and stakeholders. With a focus on prevention, detection, response, and management the 2020 work plan will:

- continue implementing the Rogers Tract Invasive Species Management Plan.
- continue managing, monitoring, and mapping invasive species at all Conservation Areas, Pumphouse and Corbett Creek Marshes.
- continue to implement pilot projects in partnership with watershed stakeholders as opportunities align with funding and priority invasive species.
- continue to participate in online outreach initiatives to develop more community engagement and communication products for enhancing invasive species awareness.

EDUCATION

For the past 31 years, Central Lake Ontario Conservation Authority (CLOCA) has delivered formal and informal education programs to ensure environmental literacy for students and CLOCA's watershed community. The following is a summary of our accomplishments for the 2019/20 school year.

In Your Watershed

Our suite of innovative education programs informs and raises awareness about the value of healthy watersheds, educating diverse audiences about CLOCA, what we do and why its important. We service the Durham District, Durham Catholic, Peterborough Victoria Northumberland Clarington Catholic and Kawartha Pine Ridge District School Boards, various Montessori schools, private schools, home school families and some Toronto District School Board schools. In the 2019/2020 school year, due to rotating teachers strikes and COVID-19, we reached about 25% of our capacity to engage 7,000 students. Many community education programs we support throughout our watershed like Farm Connections, Summer Camps and our local libraries were cancelled for 2020. Efforts to provide online resources on our website have been well received by regular CLOCA education program participants.



For the latter half of 2020 and beyond, we anticipate program modifications to support provincial and local board of education decisions when schools re-open in September. We expect to incorporate more online and in school programs, as well as encourage full day bookings with supervised and unsupervised activities on site and new programs related to watershed management and climate change. Funding has been secured to construct a nature based free play space at Enniksillen Education Centre. We initiated a program with Ontario

Power Generation (OPG) to deliver the Stream of Dreams in 2020, however have suspended until such time as school visits resume. We continue to work with OPG for a modified as part of their summer programs with a curbside component and opportunities to connect with nature close to home. Ongoing partnerships with the Association for Canadian Education Resources, Ecospark and the Robert McLaughlin Gallery were also suspended until further notice.

Durham Children's Watershed Festival

The Region of Durham continues as the Festival Event Sponsor in 2020, providing core funding to cover operational costs associated with delivery since 2014. This program in its usual format as a week-long festival at Camp Samac for grade 4 students, has been cancelled and a modified in-school program is in development for delivery from September to December in conjunction with our In Your Watershed program above. At this time, we have more than 20 schools confirmed for this free program.

Summer Programs

Since 2016, the YMCA of Greater Toronto has delivered a summer camp from the Education Centre at Enniskillen Conservation Area. The camp operates for 9 weeks during July and August. Revenues generated through this program assist us in maintaining and upgrading the building and the facility. Unfortunately, due to the extension of the provinces' emergency measures to June 30th, preparation and delivery of this program were beyond the capacity of the YMCA to navigate. We look forward to offering this program again in 2021.



Low Impact Development (LID) Workshops

Since 2018, CLOCA staff have offered two full day training workshops in partnership with STEP (Sustainable Technologies Evaluation Program) on Advanced LID Design: Bioretention Facilities. Delivery and partnerships with our municipalities will continue in 2020 to bring this concept into mainstream development in our watersheds. A workshop to provide information on



construction of LID systems, including a construction demonstration at the Purple Woods Conservation Area Heritage Hall site in September 2020, will be delivered if feasible.

OUTREACH

In 2019, with our partners, we hosted 13 corporate events, provided 28 corporate and community presentations, attended 14 community events, delivered 6 curriculum based education programs to 12,776 students, produced 8 corporate communication products, engaged 1,212 volunteers and hosted 1,531 children in our summer camp program in partnership with the YMCA GTA. Regretfully these numbers will not be reached in 2020 due to cancellation of program delivery and participation in public events throughout our watershed community.

Conservation Area Trail Stewards (CATS)

We initiated the Conservation Area Trail Stewardship (CATS) Program at Lynde Shores Conservation Area with 11 volunteers completing their onsite and online training. They committed to visiting our trails a minimum of 2 to 3 hours per month over the course of 2020. From January to March, they assisted in trail maintenance and informal educational engagement with the public. Based on the success of the program from an operational perspective and feedback from these volunteers about their experience, we intend to expand the program to other Conservation Areas in the future. We have suspended the program currently and have more than 20 volunteers on a waiting list for our second intake which will expand the existing program at Lynde Shores Conservation Area and initiate a new program at Heber Down Conservation Area.

Conservation Areas Library Program

We will continue to deliver the Conservation Areas Library program initiated in 2018. We currently have 3 backpack kits complete with wildlife and plant identification guides and snowshoes to add to the borrowing programs in Whitby, Oshawa and Clarington in 2020 or 2021. This will complement the free parking passes currently offered by these same libraries.

Marvelous Monarchs

In 2019 we introduced the Marvelous Monarch program at the libraries with a living display of this species of concern to showcase their lifecycle, their relationship with milkweed and migration patterns. The response from each library and library patrons was significant, likely reaching about 500 patrons each week. We have had to cancel this program in 2020 but will re-introduce in 2021 with a focus on reaching out to libraries and community gardens in our watershed.

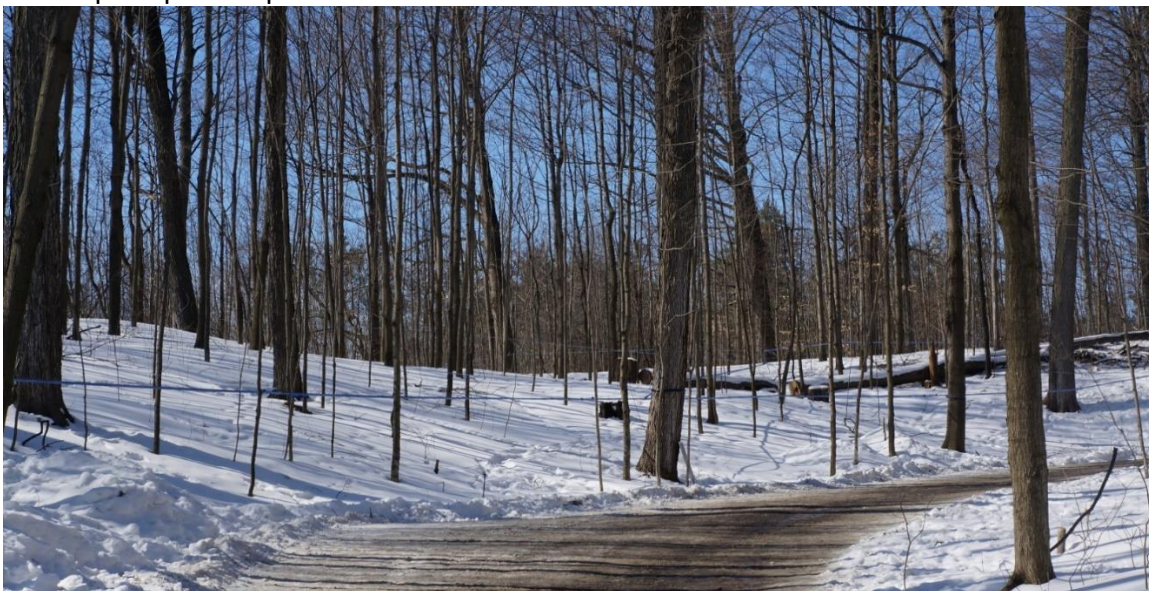


Watershed Wilderness Nature Hikes

In 2020 we engaged over 100 individuals in our evening “Owl Love You Forever” snowshoe program in February. We offered an early program for families and a later program for adults and partnered with Soper Creek Wildlife Rescue to introduce our guests to some live native owls. We have had to cancel the seasonal programs we offer to the general public on evenings and weekends and have instead developed an online presence with a Conservation Kids corner to continue reaching families and individuals interested in the natural environment. We are planning a December 2020 one day event to engage families in celebrating Christmas in the Woods.

Purple Woods Maple Syrup Festival and Sugar Bush

The 45th Purple Woods Maple Syrup Festival was cancelled after its first weekend due to the calling of a provincial wide state of emergency. We continued to produce our maple syrup following new Standard Operating Procedures (SOP’s) to ensure the safety of staff was first and foremost amidst COVID-19. Producing more than 1,000 litres of syrup, we created an online store in June 2020 to sell this and other maple products through curbside pickup at Purple Woods Conservation Area.



RBC Smart Watersheds – (New for 2020)

Funded by RBC’s Tech for Nature program, we are enhancing our existing water monitoring program creating a technology-based ecosystem in areas of our watershed that we require more data information. The program will not only enhance our data collection and allow us to make science-based decisions around water quality and quantity, but it will engage our local community. With the funds provided, we are purchasing weather stations to install at 3 local watershed schools, 6 water quality monitoring probes for citizen science, installing 1 real time water quality data collection sensor and camera to provide us with a more accurate snapshot of conditions at an existing CLOCA monitoring station. We will also develop a Smart Watersheds Portal for staff, students, citizen scientists, our partners and stakeholders to access an interactive database that allows for visualization, mapping, data input, manipulation, modeling and statistical reporting and analysis. Subject to the successful implementation of this one-year pilot project, RBC will be approached to support year 2 and 3.

CORPORATE COMMUNICATION

This includes the operating costs associated with communications to ensure the public and partners are informed about CLOCA’s programs and services. Our communication products in 2020 will include building media relations; marketing our programs and accomplishments; developing Conservation Area signage; design and production of corporate publications, brochures, reports, and fact sheets; producing the CLOCA Annual Report; maintaining and updating our website; social media postings; developing new online services; servicing the communication needs of all CLOCA departments with design, editing and publication services; supporting external community environmentally themed programs and projects with partners and stakeholders. In 2020 we will focus on delivery of the following additional documents; the Watershed Plan Updates and the Conservation Area Master Plans. We will also facilitate the Strategic Planning process which will include consultation and specific goals and objectives for 2021 to 2025 and the creation of an online publication to summarize our next 5 years to support watershed health.

CLOCA Chronicle E-Newsletter

We continue to deliver the CLOCA Chronicle quarterly for each season to our mailing list of 2,400. The e-newsletters are well received and offer us another tool to engage a broad audience in showcasing the work we do across all departments.



Central Lake Ontario Conservation's
spring 2020 newsletter

Communicating, educating and inspiring. To share our watershed story, to inspire our community to be watershed champions and to take action for real change.



In this issue:

CENTRAL LAKE ONTARIO CONSERVATION 2020 BUDGET

| Community Engagement | | | | |
|---|------------------------|------------------------|------------------------|------------------------|
| | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Revenue | | | | |
| General Levy | 536,340 | 448,505 | 421,418 | 380,300 |
| Municipal General Levy - Children's Groudwater Festival | 52,530 | 51,250 | 51,250 | 50,000 |
| Donations | 200 | 7,000 | 14,270 | 11,412 |
| Donations - Children's Groundwater Festival | 0 | 40,000 | 45,209 | 43,757 |
| Self Generated | | | | |
| Education Fees | 3,100 | 66,000 | 63,921 | 76,164 |
| Maple Syrup Tours | | 10,000 | 8,823 | 13,100 |
| Admissions/PWMSF | 2,000 | 41,000 | 48,229 | 55,158 |
| Maple Syrup Sales | 25,000 | 35,000 | 39,167 | 43,328 |
| Maple Syrup Sales - Office | 6,000 | 7,000 | 6,713 | 6,018 |
| Maple Syrup Promotion | | | 1,033 | |
| Product Sales PWMSF | 10,000 | 14,000 | 15,400 | 13,874 |
| Community Pancake Sales | | 30,000 | 31,577 | 38,786 |
| CLOCA Days Pancake Sales | 770 | 3,800 | 5,793 | 3,796 |
| Other Revenue | 3,000 | 11,500 | 22,767 | 55,600 |
| Deferred Revenue | 0 | 11,100 | 0 | -11,028 |
| | 638,940 | 776,155 | 775,570 | 780,265 |
| | | | | |
| | | | | |
| Cost and Expenditures | | | | |
| Salaries & Benefits | | | | - |
| Salaries & Wages | 459,700 | 464,300 | 462,659 | 461,530 |
| Salaries & Wages - Purple Woods Maple Syrup Festival | 3,400 | 20,400 | 21,033 | 19,093 |
| Benefits | 125,000 | 122,800 | 121,173 | 120,884 |
| Office Administration | | | | |
| Office Supplies/Postage/Printing | - | | 278 | 264 |
| Materials & Supplies | 4,150 | 10,000 | 24,210 | 34,587 |
| Promotion | 400 | 400 | 768 | 271 |
| Travel | 100 | 200 | 408 | 322 |
| Staff Mileage | 200 | 600 | 839 | 433 |
| Cellular | 1,420 | 1,400 | 938 | 1,244 |
| Publications & Subscriptions | 2,600 | 4,100 | 2,995 | 2,922 |
| Equipment Rental | - | - | | - |
| Equipment/Capital Assets | 1,875 | - | 212 | - |
| Services | 2,400 | 11,800 | 4,765 | 2,443 |
| Donations | - | | 375 | 350 |
| Software | 650 | 650 | 558 | 635 |
| Course Registration | 100 | 1,200 | 1,560 | 885 |
| Insurance | | | - | 408 |
| Vehicle/Equipment Recovery | 6,500 | 6,500 | 8,946 | 7,852 |
| Purple Woods Maple Syrup Festival | 30,025 | 75,710 | 69,113 | 70,200 |
| Children's Groundwater Festival | 420 | 56,095 | 54,740 | 55,943 |
| | 638,940 | 776,155 | 775,570 | 780,265 |

Land Management

The Central Lake Ontario Conservation Authority owns over 2,433 hectares of land within its watershed jurisdiction that includes valley lands, provincially significant wetlands, natural areas, forests as well as flood plain lands. The natural value of these properties, and the public investment in these lands, is protected through the Authority's Land Management Program.

PROGRAM OPERATIONS

Program operational costs include inspections following our Conservation Areas Risk Management Policy; facility repair, trail maintenance, and hazard tree work required to maintain public infrastructure for 8 public Conservation Areas and 45 kilometers of trail. Inspections and hazard tree management will continue for all public use portions of our landholdings.

Conservation Areas Planning and Development

In 2020, Conservation Area development will focus on the on-going landscaping of the Heber Down Conservation Area Cochrane Street entrance and picnic areas. The Heber Down Habitat Compensation Project will also commence in 2020.

Lynde Shores Conservation Area

CLOCA will be constructing a new public entrance for the Lynde Shores Conservation Area. The entrance will be located on Halls Road and will relieve overcrowding of the Victoria Street entrance. The new facilities will include a larger parking lot, information kiosk, washroom, and trail connections. The project will be coordinated with the Region of Durham's wetland restoration project that is to be completed adjacent to the new entrance feature.

Rogers Tract

At the Rogers Tract, efforts will continue to reduce the impact associated with two existing manmade ponds. These 2 on-line ponds were constructed by the previous owner in the 1960s for recreational purposes. The ponds are barriers to aquatic movement and have thermal impacts on downstream temperatures. The ponds were by-passed in 2019 through a natural channel. Monitoring the success of this bypass will continue through 2020. This restoration work will have positive improvements to the aquatic habitat and thermal regime. Two new culverts and surrounding roadbeds will be replaced in 2020. One culvert replacement is in conjunction



with the newly created pond bypass channel, and a second one is downstream and will maintain maintenance access around the property and improve fish passage. Restoration plans will focus on naturalization of the pond areas to a stream channel with healthy riparian vegetation.

Invasive species monitoring and some control work will be continued through 2020, in preparation for more aggressive control in future years. It is anticipated that the red pine plantations will be marked for thinning in 2020, with harvesting following in 2021. Invasive species control will be an important consideration in these areas after harvesting.

Property Management

Costs and revenues associated with ownership of land or buildings, taxes, insurance, maintenance and servicing of landholdings and facilities. At the Administration Office, minor office renovations are planned, and annual building maintenance will include replacement of worn carpet and painting. Exterior landscaping and property security improvements are also planned.

Acquisition Opportunities

CLOCA continues to pursue land acquisition opportunities and funding opportunities in accordance with the Central Lake Ontario Conservation Authority Land Acquisition Strategy with an emphasis on implementing the Lake Iroquois Beach Securement Strategy and completing acquisition in important gaps within our conservation areas.



Purple Woods

Our Maple Syrup Festival facilities have been greatly improved over recent years, and staff continue to replace and extend the tap lines with modern collection tubing in the maple bush.



Storoshchuk Restoration

Restoration of the abandoned aggregate pit on the Storoshchuk Tract in Enniskillen Conservation Area will continue throughout 2020. The purpose of this restoration project is to restore the valley wall and return the terrain to its original form, eliminating the hazards associated with the eroding slopes, improving vegetation communities and habitat connectivity. This work will be undertaken by a local contractor and monitored by CLOCA.



Conservation Landholdings Master Plan Development

CLOCA’s lands support and help to sustain Durham Region’s critical natural resources including water, aquatic, terrestrial and wildlife habitats. These are the same areas that Durham residents visit to enjoy and experience nature. Continued increases in population will result in a rise in the number of visitors to CLOCA’s Conservation Areas. The infrastructure and development necessary to support this growth will significantly impact our watershed resources. As such, CLOCA must be confident that our conservation areas adequately protect the Region’s critical natural resources and that these areas can continue to provide appropriate recreational and educational needs. CLOCA staff have been working on development of a Conservation Landholdings Master Plan. This plan will guide current and future decisions with respect to land needs and management needs for the next 50 years.

| CA Land Management | | | | |
|-----------------------------------|------------------------|------------------------|------------------------|------------------------|
| | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Revenue | | | | |
| General Levy | 622,590 | 723,245 | 680,033 | 745,919 |
| Municipal Special Levy | 235,000 | 85,000 | 85,000 | 85,876 |
| Other Grants Federal | 70,000 | 53,600 | - | 69,902 |
| Other Grants Provincial | - | 20,000 | 20,878 | 16,207 |
| Other Revenue | 38,000 | 44,350 | 40,491 | 43,854 |
| Other Grants | - | - | - | 6,304 |
| Reserve Transfer | (49,750) | (59,275) | (52,079) | (7,985) |
| Deferred Revenue | 88,000 | - | - | (50,000) |
| Interest Earned | 1,750 | 1,750 | 2,428 | 1,794 |
| Pay & Display | 120,530 | 111,000 | 137,896 | 129,700 |
| Seasons Passes | 20,000 | 20,000 | 22,131 | 22,240 |
| Donations | 73,000 | 73,000 | 74,500 | 101,479 |
| Property Rental | 59,350 | 58,680 | 63,042 | 59,822 |
| Facility Rental Fees | 2,000 | 16,500 | 16,939 | 18,825 |
| Commercial Rent Signs | 7,200 | 7,200 | 7,233 | 7,233 |
| Fill Sites Large Application Fees | 40,000 | 70,000 | 27,020 | - |
| | 1,327,670 | 1,225,050 | 1,125,514 | 1,251,170 |

Lynde Shores Conservation Area



| CA Land Management | | | | |
|---|------------------------|------------------------|------------------------|------------------------|
| Cost and Expenditures | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Salaries & Wages | 463,000 | 519,600 | 503,851 | 494,666 |
| Salaries & Wages - Summer Student Program | 35,200 | 51,300 | 51,343 | 39,572 |
| Benefits | 131,500 | 144,800 | 139,515 | 137,183 |
| Staff Mileage | 10,000 | 500 | 735 | 1,098 |
| Administration Expense | 17,850 | 17,420 | 17,420 | 17,000 |
| Course Registration | 4,000 | 5,000 | 3,163 | 4,910 |
| Materials & Supplies | 58,575 | 125,000 | 73,289 | 99,792 |
| Publications & Subscriptions | 8,600 | 2,600 | 1,966 | 1,008 |
| Services | 136,000 | 156,170 | 126,359 | 128,032 |
| Water Sample Testing | 200 | 200 | 420 | 420 |
| Telephone | 1,775 | 1,725 | 1,719 | 1,718 |
| Hydro | 15,700 | 16,250 | 12,440 | 12,829 |
| Alarm | 1,375 | 1,375 | 1,340 | 1,340 |
| Gas | 6,000 | 6,000 | 6,404 | 5,024 |
| Cellular | 4,600 | 4,960 | 4,875 | 4,394 |
| Travel | 1,200 | 1,200 | 1,086 | 1,930 |
| Taxes | 39,255 | 40,805 | 36,553 | 36,460 |
| Insurance | 9,475 | 7,245 | 7,203 | 6,764 |
| Legal Fees | - | - | - | 3,730 |
| Audit Fees | 1,700 | 1,600 | 1,721 | 1,640 |
| Bank Service Charges | 2,620 | 2,250 | 2,487 | 2,157 |
| Land Acquisition | - | - | - | 29,479 |
| Permit/Approval Fees | - | - | - | 1,000 |
| Pay & Display Software Monitoring Fees | 4,800 | 4,800 | 4,762 | 4,498 |
| Construction Contracts | 4,000 | 29,000 | 29,000 | 68,801 |
| Consultant | - | - | 6,905 | - |
| Equipment | 303,995 | 19,000 | 21,506 | 76,539 |
| Equipment Rental | 100 | 100 | 468 | 75 |
| Vehicle Recovery | 55,400 | 55,400 | 60,018 | 58,692 |
| Equipment Recovery | 10,750 | 10,750 | 8,965 | 10,422 |
| | 1,327,670 | 1,225,050 | 1,125,514 | 1,251,170 |

Vehicles and Equipment

VEHICLES & EQUIPMENT

Usage of Authority vehicles and equipment are charged back to Authority projects and programs at a rate intended to cover the cost of operations. Included in the 2020 budget is the replacement of one vehicle.

| Vehicles & Equipment | | | | |
|---------------------------------|------------------------|------------------------|------------------------|------------------------|
| | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Revenue | | | | |
| General Levy | 3,490 | 7,440 | (10,226) | 36,341 |
| Vehicle/Equipment Sales | - | - | 6,238 | |
| Rental Recovery | 117,450 | 117,450 | 112,491 | 122,554 |
| | 120,940 | 124,890 | 108,503 | 158,895 |
| Cost and Expenditures | | | | |
| Salaries & Wages | 11,300 | 10,900 | 3,981 | 5,625 |
| Benefits | 3,300 | 3,100 | 1,047 | 1,552 |
| Postage | | | | 18 |
| Materials & Supplies | 3,240 | 3,240 | 2,403 | 2,837 |
| Services | 20,500 | 20,500 | 19,502 | 23,337 |
| Fuel | 21,000 | 27,000 | 24,806 | 27,373 |
| Small Tools | 3,000 | 3,000 | 1,507 | 1,259 |
| Insurance | 12,900 | 11,450 | 11,392 | 10,912 |
| Licence | 2,000 | 2,000 | 1,663 | 2,669 |
| Equipment Purchases | 15,000 | 15,000 | 15,317 | 28,294 |
| Vehicle Purchases | 26,000 | 26,000 | 25,982 | 51,497 |
| Vehicle Recovery | 2,700 | 2,700 | 904 | 3,500 |
| Equipment Recovery | | | | 22 |
| | 120,940 | 124,890 | 108,503 | 158,895 |

Corporate Services

PROGRAM OPERATIONS

Corporate Services includes general direction, coordination and implementation of all approved Authority programs and policies; member services, governance, financial management and reporting, budgets, corporate records, Geomatics and Information Management Systems, health and safety, human resources, payroll and administration support for all programs.

Desktop Hardware and Software Upgrades / Maintenance

This includes the costs for ongoing licensing of software and the purchase of hardware to replace aging/outdated components.

Server/Network Infrastructure Upgrades and Maintenance

CLOCA has a heavy operational dependency on Information Technology, including Wide and Local Area Networks (WAN's and LAN's), database servers, intranet, internet and e-mail. The potential loss of operational control of essential IT services has the potential to have a negative impact on the flow of information and data that staff and stakeholders depend on daily.

CLOCA will continue work on the development and implementation of its hybrid cloud business continuity plan to lay the foundation for future expansion of the information technology infrastructure. In 2020, specific network infrastructure and licensing acquisitions are planned to secure the availability of all applications and services to users.

Conservation Authority's Application Development Shared Services Agreement

CLOCA, along with Mississippi Valley, Ganaraska Region, Kawartha Region and Otonabee Region Conservation Authorities have implemented a coordinated shared services application development program. CLOCA has been acting as the lead agency providing planning, development, operation and maintenance support for the Conservation Authority Content Management System (CACMS), Reference Library, Vehicle Bookings and other future applications. The shared services agreement is helping to standardize application development and business processes amongst the participating Conservation Authorities and ensure sustainability.

CLOCA Data Portal

CLOCA will continue its work on the data portal and tool development for staff, partners and the public to provide a gateway for exploring and retrieving information about the Authority's watersheds. This portal directs you to various interactive mapping, reporting and data download tools to help partners and the public find the information they need. The data portal leverages the information stored in the Water Information System and the Authority's spatial data repository.

The Central Lake Ontario Conservation's (CLOCA) Open Data community is where users can explore and download data, use and build innovative apps to solve important local issues, and analyze information to share with the community. CLOCA supports the idea that certain data should be freely available to everyone to use and republish as they wish, without restrictions.

Migration to Water Information System (WISKI)

Continue to enhance CLOCA's water and climate monitoring system (WISKI) to gain efficiencies in data collection, manipulation, and interpretation. The system will continue to expand to incorporate other business areas to facilitate data maintenance, analysis and dissemination of the Authority's monitoring information network.

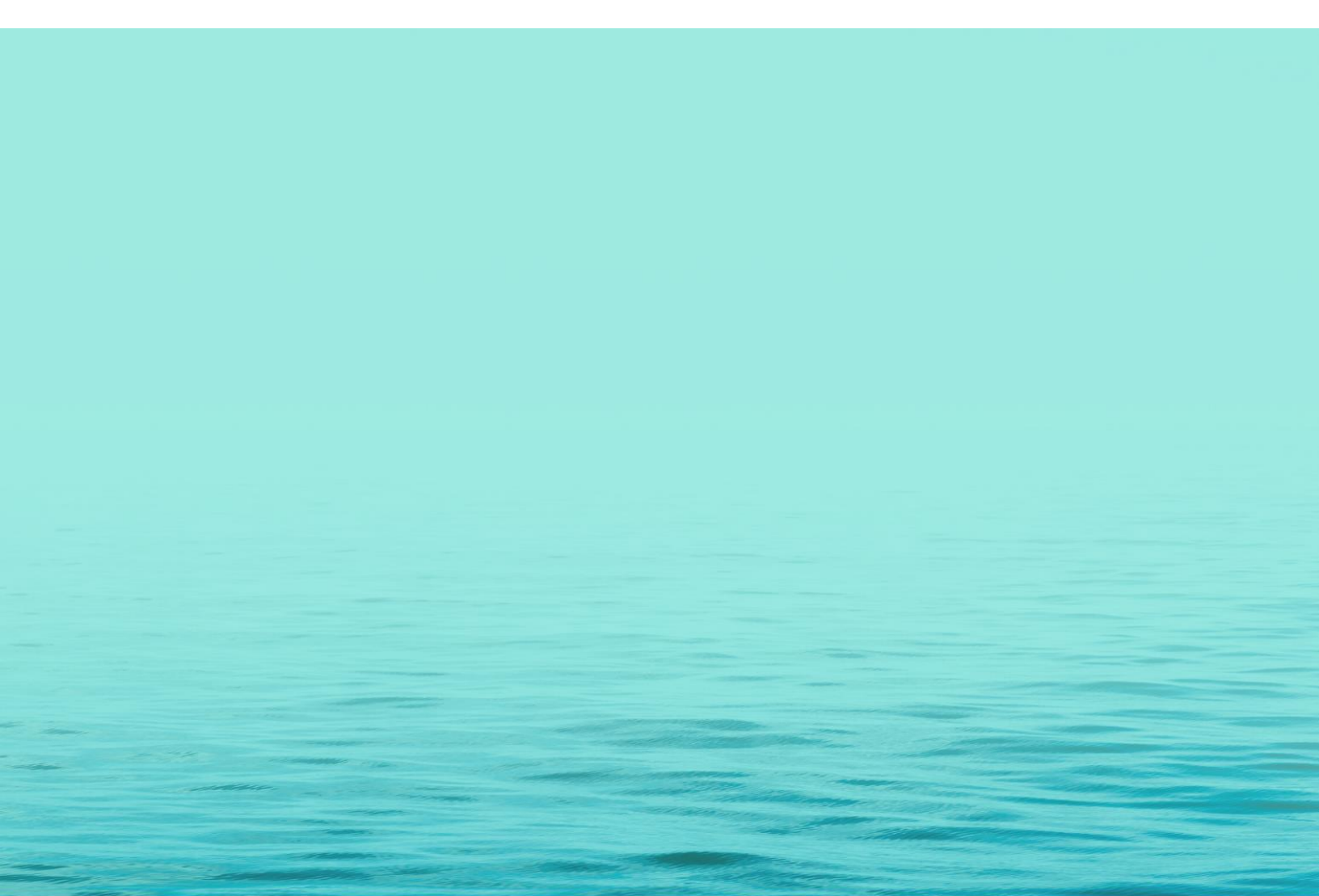
Office Environmental Monitoring

CLOCA continues to work through environmental site monitoring and risk assessments for contaminated land surrounding the administration office. An Environmental Risk Assessment is being completed over a period of three years to satisfy both Environmental Protection Act and Public Sector Accounting requirements.



| Corporate Services | | | | |
|---------------------------|------------------------|------------------------|------------------------|------------------------|
| Revenue | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| General Levy | 1,505,140 | 1,462,718 | 1,474,853 | 1,415,337 |
| MNR Transfer Payment | 10,945 | 10,945 | 10,945 | 17,833 |
| Federal Grants | 0 | 1,200 | 3,920 | 1,680 |
| Merchandise Sales | 0 | 0 | 278 | 95 |
| Interest Earned | 45,000 | 45,000 | 74,048 | 54,875 |
| Other Revenue | 90,400 | 89,500 | 111,680 | 92,414 |
| Sand Box Demo | | | 1,111 | 1,334 |
| Reserve Transfer | 0 | 50,767 | 0 | -8,655 |
| Deferred Revenue | -8,500 | 2,025 | -1,754 | -10,524 |
| Administrative Services | 29,400 | 27,500 | 31,767 | 34,829 |
| | 1,672,385 | 1,689,655 | 1,706,848 | 1,599,218 |

| Corporate Services | | | | |
|---|------------------------|------------------------|------------------------|------------------------|
| Cost and Expenditures | 2020 Budget | 2019 Budget | 2019 Actual | 2018 Actual |
| Salaries & Wages | 955,250 | 904,350 | 929,919 | 839,323 |
| Salaries & Wages - Summer Student Program | - | 10,000 | 9,729 | 10,490 |
| Benefits | 265,850 | 227,150 | 232,877 | 209,562 |
| Members Per Diems | 8,500 | 8,500 | 7,500 | 5,800 |
| Office Supplies | 5,000 | 5,000 | 4,427 | 5,762 |
| Postage | 2,025 | 2,025 | 1,757 | 1,879 |
| Printing | 9,000 | 9,000 | 8,207 | 8,415 |
| Promotion | 225 | 100 | 274 | 111 |
| Uniform Purchases | 4,200 | 7,300 | 8,033 | 7,729 |
| Travel | 1,835 | 3,200 | 3,409 | 4,219 |
| Cellular | 2,120 | 2,400 | 2,103 | 2,233 |
| Bank Service Charges | 6,500 | 5,500 | 6,507 | 5,323 |
| Payroll Processing Fees | 7,425 | 7,475 | 7,935 | 7,474 |
| Publications & Subscriptions | 10,600 | 12,100 | 10,035 | 9,195 |
| Materials & Supplies | 18,000 | 14,500 | 19,655 | 20,021 |
| Equipment Rental | 15,200 | 15,200 | 13,631 | 15,193 |
| Equipment/Capital Assets | 56,150 | 155,200 | 103,116 | 169,017 |
| Services | 91,000 | 100,300 | 123,915 | 97,509 |
| Consultant Fees | | | | 1,374 |
| Property Taxes | 9,000 | 6,000 | 8,769 | 8,991 |
| Utilities | 44,400 | 41,600 | 43,365 | 41,061 |
| Insurance | 35,855 | 30,555 | 30,666 | 28,825 |
| Legal Fees | 15,000 | 15,000 | 16,483 | 13,989 |
| Audit Fees | 22,000 | 20,000 | 20,092 | 18,097 |
| Donations | 400 | 400 | 185 | 312 |
| Staff Mileage | 2,550 | 1,750 | 2,162 | 1,855 |
| Software | 21,000 | 18,500 | 23,057 | 13,409 |
| Course Registration | 20,000 | 24,500 | 29,553 | 12,176 |
| Vehicle/Equipment Recovery | 9,500 | 9,500 | 6,937 | 8,759 |
| Conservation Ontario Levy | 33,800 | 32,550 | 32,550 | 31,115 |
| | 1,672,385 | 1,689,655 | 1,706,848 | 1,599,218 |



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