Central Lake Ontario Conservation 2018 Budget



Approved by Auth. Res. #49/18, dated May 15, 2018





| History1 |
|---|
| The Central Lake Ontario Watershed1 |
| |
| Mandate of Conservation Authorities |
| Governance |
| Membership Structure |
| Human Resources |
| Budget Presentation |
| Watershed Management & Health Monitoring 12 |
| External Contracts – YPDT (York, Peel, Durham & Toronto Groundwater Study) 20 |
| Environmental Plan Review & Regulation Services |
| Community Engagement |
| Land Management |
| Vehicles and Equipment |

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 Significant Wetlands and Provincially 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.

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CENTRAL LAKE ONTARIO CONSERVATION 2018 BUDGET

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, Heydenshore, 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.

CENTRAL LAKE ONTARIO CONSERVATION 2018 BUDGET

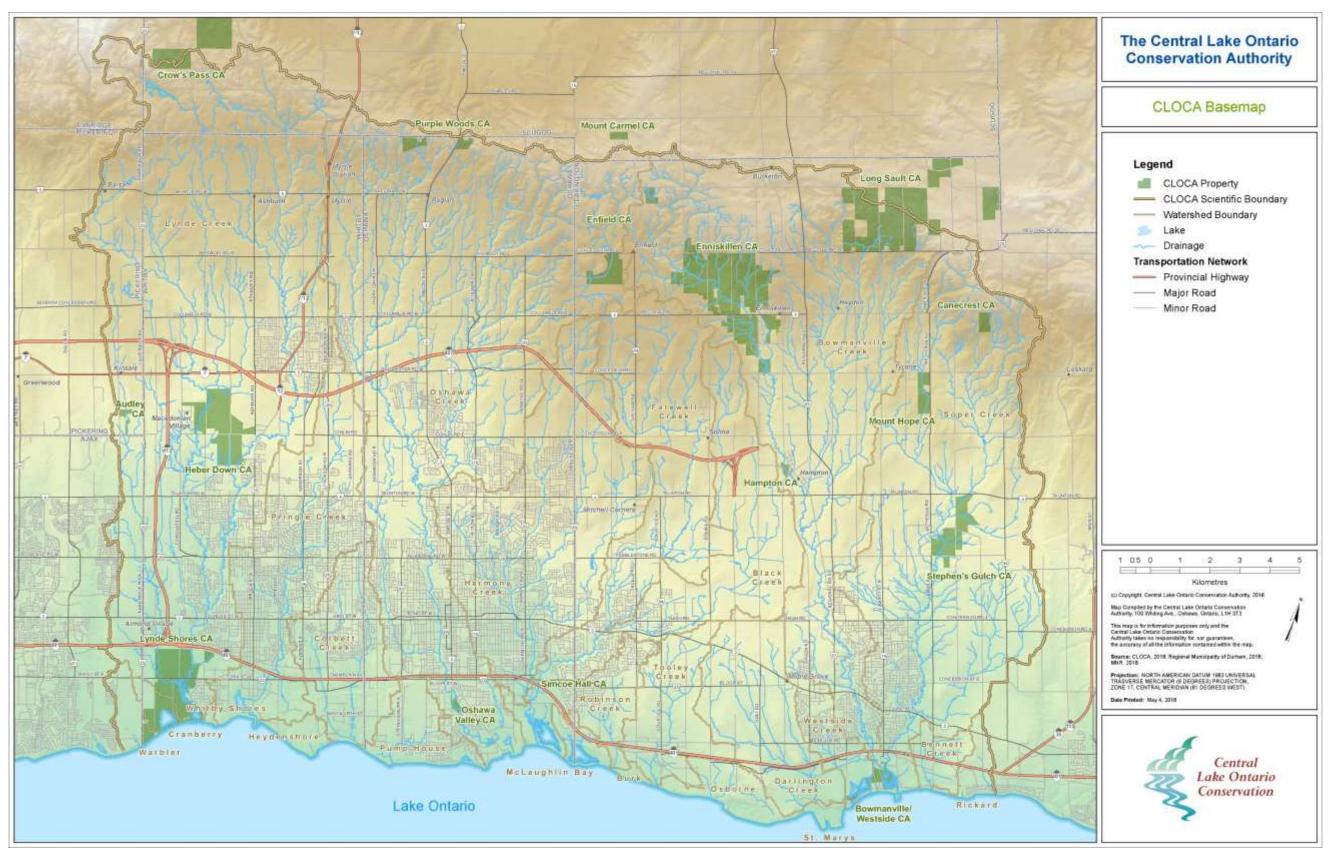


Region-Wide Initiatives

- Coastal Wetlands Monitoring
- Conservation Authorities Moraine Coalition
- Groundwater Strategy/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



CLOCA Watershed Map

Mandate of Conservation Authorities

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

Member Municipalities

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 Public Information Conservation Education Source Water Protection Volunteer Services 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 on a monthly basis 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

2018 Board of Directors

Chair: Don Mitchell, Town of Whitby Vice Chair: Adrian Foster, Municipality of Clarington

John Aker, City of Oshawa Dave Barton, Township of Uxbridge Shaun Collier, Town of Ajax Joe Drumm, Town of Whitby Derrick Gleed, Town of Whitby Ron Hooper, Municipality of Clarington Joe Neal, Municipality of Clarington John Neal, City of Oshawa David Pickles, City of Pickering Nester Pidwerbecki, City of Oshawa Tom Rowett, Town of Scugog Elizabeth Roy, Town of Whitby





Human Resources

Chris Darling, Chief Administrative Officer

◆ <u>Directors</u>◆

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

♦ <u>Staff</u> ♦

Ted Aikins, Development Planner Todd Backus, Resource Technician - Lead Hand Lucy Benham, Water Resources Engineer Brandi Boardman, Administrative/Accounting Assistant Meagan Breems, Education Assistant Jeff Burgess, Water Resources Engineer Andrew Caky, Database Developer/Administrator Josie Calabrese, Financial Services Coordinator Eric Cameron, Infrastructure Planner/Enforcement Officer Godofredo Carpio, Hydrogeologist Connie Ciulla, Service, Information & Records Coordinator Andrew Cunning, Payroll Accounting Clerk Jamie Davidson, Conservation Areas Planner Ben DeWaal, Resource Technician – Field Stefanie Penney, Development Planner Gord Geissberger, Communication & Marketing Coordinator Cathy Grant, Education Instructor Marnie Guindon, Planning & Regulation Officer John Hetherington, Regulation & Provincial Offences Officer Harry Hirschfeld, Resource Technician - Field Dan Hope, Land Management & Operations Supervisor Ian Kelsey, Aquatic Biologist David Krupicz, Environmental & Admin. Application Sylwia Kubrak, Senior GIS Specialist

Kathy Luttrell, Natural Heritage Ecologist Jason Maas, Resource Technician - Field Bryan Mistak, GIS Technician Dan Moore, Aquatic Ecologist Heather Pankhurst, Wetland Biologist Jackie Scott, Terrestrial Biologist Diana Shermet, Terrestrial Biologist/Ecologist Margaret Stauffer, Administrative Assistant Yvonne Storm, Education Instructor Holly Whittington, Environmental Engineering Tech Rod Wilmot, GIS/Systems Supervisor

♦ External Contracts

Mike Doughty, Intermediate Hydrogeologist – YPDT* Richard Gerber, Groundwater Specialist – 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. <u>Watershed Management & Health Monitoring</u> 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, Oak Ridges Moraine Conservation Plan, various groundwater studies and research and a number of provincial contracts administered by CLOCA.
- B. <u>External Contracts (York, Peel, Durham & Toronto Groundwater Program</u>) 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 at Highway 407 and Jane St.
- C. <u>Environmental Plan Review & Regulation Services</u> 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. <u>Community Engagement</u> 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. <u>Land Management</u> 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. <u>Vehicles and Equipment</u> 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. <u>Corporate Services</u> Corporate Services Includes management and non-direct program specific costs, head office operations, audit, legal, human resources, health and safety and the costs of GIS/IT support, Information Management Systems and the development of Enterprise GIS to improve the movement of data throughout the organization.

BUDGET ASSUMPTIONS

Wages & Benefits

• As approved by Board of Directors on November 18, 2014.

Regional Operating Levy

• As approved by Durham Region Council on February 5, 2018.

MNRF Transfer Payments

• MNRF transfer payments reported in the budget have been flat-lined since 1996.

Ontario Government Funding

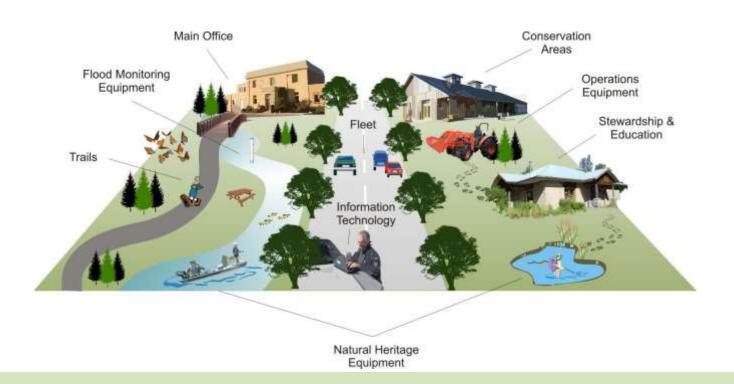
• Will continue the Source Water Protection initiative.

<u>User Fees</u>

• 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 21, 2017.

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 | | | | | | |
|---|-----------|-----------|-----------|-----------|--|--|
| | | | | | | |
| | 2018 | 2017 | 2017 | 2016 | | |
| Pavanua | Budget | Budget | Actual | Actual | | |
| Revenue | | | | | | |
| General Levy | 3,822,155 | 3,728,933 | 3,728,933 | 3,637,985 | | |
| Municipal Special Levy | 207,500 | 50,000 | 50,000 | 52,340 | | |
| MNR Transfer Payment | 125,000 | 125,000 | 124,833 | 124,833 | | |
| Other Grants Federal | 37,900 | 339,840 | 226,687 | 125,654 | | |
| Other Grants Provincial | 10,200 | 6,200 | 6,196 | 11,953 | | |
| Other Revenue | 1,008,200 | 1,076,825 | 1,232,400 | 1,187,867 | | |
| Other Grants | 6,000 | 14,875 | - | 22,270 | | |
| Reserve Transfer | (22,600) | 50,080 | 8,771 | (62,007) | | |
| Deferred Revenue | 214,495 | 91,023 | 50,314 | 25,506 | | |
| InterestEarned | 20,750 | 12,150 | 32,856 | 20,182 | | |
| Insurance Proceeds | - | - | 3,200 | - | | |
| Administrative Services | 27,000 | 16,500 | 33,712 | 30,380 | | |
| Maple Syrup Sales | 35,000 | 35,500 | 35,795 | 32,410 | | |
| Honour Box | - | - | 71 | 625 | | |
| Merchandise Sales | 13,500 | 13,500 | 13,999 | 19,507 | | |
| Maple syrup sales office | 6,500 | 6,500 | 6,961 | 7,422 | | |
| Pay & Display | 117,500 | 117,230 | 117,809 | 131,841 | | |
| Seasons Passes | 13,000 | 11,000 | 16,855 | 16,482 | | |
| Gate Fees | 55,000 | 39,000 | 40,273 | 40,707 | | |
| Donations | 111,000 | 115,750 | 117,792 | 235,086 | | |
| Community Pancake sales | 26,670 | 25,000 | 30,662 | 28,285 | | |
| Cloca Days Pancake sales | 3,800 | 9,000 | 3,973 | 3,472 | | |
| Property Rental | 58,015 | 61,725 | 58,015 | 67,797 | | |
| Facility Rental Fees | 8,000 | 7,000 | 18,216 | 11,748 | | |
| Commercial Rent Signs | 7,200 | 7,400 | 7,233 | 6,932 | | |
| Education Fees Elementary | 66,000 | 60,000 | 72,277 | 59,592 | | |
| Secondary School Fees HS | - | - | | | | |
| Maple Syrup Tours | 10,000 | 10,000 | 12,272 | 10,763 | | |
| Map Sales | 5,000 | 4,000 | 9,190 | 6,850 | | |
| Property Inquiry Fee | 20,000 | 15,925 | 25,010 | 23,700 | | |
| Sandbox Demo | | - | 400 | - | | |
| Consulting Revenue | 25,000 | - | - | - | | |
| Regulations 42/06 Permit | 380,000 | 275,000 | 376,055 | 321,835 | | |
| Plan Review Fees | 785,000 | 530,000 | 781,535 | 521,632 | | |
| Fill Sites Large Application Fees | 75,000 | 105,000 | 47,880 | 116,640 | | |
| Rental Recovery | 108,650 | 108,650 | 111,271 | 91,210 | | |
| | | | | | | |
| | 7,386,435 | 7,068,606 | 7,401,446 | 6,931,496 | | |

| Cost and Expenditures Salaries & Wages 3.887.630 3.855.555 3.633.12 Salaries & Wages Salaries & Wages Sescial (PWMS Festiva) 23.050 18.600 19.558 21.177 Wages Sescial Employment (Summer Students) 144.100 112.150 142.121 141.12 Benefits 1.054.620 1.044.026 979.395 1.055.130 22.000 5.000 5.000 2.000 5.000 2.000 5.000 2.000 2.000 2.000 3.057.530 22.451 3.6711 Matrinistration Expense 2.7000 12.750 32.771 22.828 2.300 7.200 12.750 29.571 22.828 Postage 2.300 2.500 1.918 2.249 14.0218 2.300 1.2000 18.000 1.024.828 2.9971 154.032 Publications & Subscriptions 161.075 22.575 29.9971 154.032 2.9987 154.032 Sorivare 58.200 4.3.77 5.0.34.41 10.218 3.03121 2.248.25 1.177 16.031.700 | | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual |
|--|---|----------------|----------------|----------------|----------------|
| Wages Seasonal (PWMS Festival) 23.050 18.500 19.558 21.17 Wages Special Employment (Summer Students) 144.100 112.150 142.121 121.144 Benefits 1.126.700 1.054.620 1.044.086 973.950 Difice Supplies 6.600 6.600 4.620 7.531 Turue Benefits 1.126.700 17.780 15.777 15.661 Administration Expense 27.000 12.750 32.779 24.552 Course Registration 55.700 55.300 29.451 36.711 22.899 ACAO Levy 31.125 29.575 29.571 22.899 22.490 Printing 12.000 8.441 10.218 24.997 15.602 Printing 12.000 12.000 8.441 10.218 24.997 15.602 Printing 12.000 13.700 31.720 28.978 19.939 15.933 Turoiton 1.100 4.660 1.525 10.93 11.613 12.979 29.936 | Cost and Expenditures | Buuget | Duuget | Actual | Actual |
| Wages Seasonal (PWMS Featival) 23 050 18,500 19,558 21,171 Wages Special Employment (Summer Students) 144,100 112,150 142,121 121,144 Benefits 1,125,700 10,64,620 1,044,086 973,395 Difice Supplies 6,600 6,600 4,620 7,531 Turue Benefit Expense 20,000 5,000 50,000 20,000 Staff Mieage 17,900 17,780 15,777 15,651 Administration Expense 27,000 12,750 32,779 22,452 Course Registration 65,070 55,300 29,451 36,711 22,890 ACAO Levy 31,125 29,575 29,571 22,890 22,900 14,000 12,000 8,441 10,218 Software 56,200 12,200 8,441 10,218 24,997 15,632 Fromotion 1,100 445,470 438,965 423,728 398,561 Fuelications & Subscriptions 445,470 438,965 423,728 398,561 < | Salaries & Wages | 4,168,300 | 3,887,630 | 3,855,555 | 3,630,312 |
| Wages Special Employment (Summer Students) 144,100 112,150 142,112 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,121 121,120 121,121 | | 23,050 | | 19,558 | |
| Benefits 1,128,700 1,045,620 1,048,086 973,935 Puture Banefit Expense 6,600 6,600 4,620 7,531 Puture Banefit Expense 20,000 5,000 20,000 20,000 5,000 20,000 Staff Mileage 17,900 17,850 15,797 15,561 Administration Expense 27,000 12,750 32,779 12,452 Course Registration 8,500 8,500 7,200 6,753 AcAO Levy 31,125 29,575 29,571 22,899 Postage 2,330 22,550 19,18 2,498 Materials & Subscriptions 40,745 33,740 27,920 20,538 Prining 12,000 13,270 25,103 11,12,12 23,730 25,180 Sortware 66,200 43,275 50,345 59,844 14,12,18 Sortware 45,300 5,750 6,761 5,339 16,43 Verices 44,470 44,896 42,372 19,33 | | 144,100 | 112,150 | 142,121 | 121,144 |
| Future Benefit Expense 20,000 5,000 5,000 20,000 Staff Mileage 17,900 17,850 15,797 15,864 Administration Expense 27,000 12,750 32,779 29,452 Course Registration 50,700 53,300 29,451 38,711 Members Per Diems 8,500 8,500 7,200 6,750 Octock Levy 31,125 29,575 29,9571 22,828 Postage 2,330 2,455 129,997 154,032 Printing 12,000 12,000 8,441 10,218 Services 445,470 439,865 433,727 29,155 Services 445,470 439,865 433,727 51,639 Transportation 1,100 4,000 1,566 2,349 Small Toolis 3,000 4,000 1,566 2,349 Uniform Purchases 5,300 5,750 6,781 5,339 Telephone 15,825 11,775 16,049 10,852 <tr< td=""><td>Benefits</td><td>1,126,700</td><td>1,054,620</td><td>1,048,086</td><td>979,395</td></tr<> | Benefits | 1,126,700 | 1,054,620 | 1,048,086 | 979,395 |
| Staff Mileage 17,900 17,850 15,797 15,661 Administration Expense 27,000 12,750 32,779 22,452 Course Registration 50,700 55,300 29,451 36,711 Members Per Diems 8,500 7,200 6,750 ACAO Levy 31,125 29,557 29,571 22,992 Postage 2,300 2,550 1,918 2,249 Materials & Supplies 161,075 225,875 129,997 15,003 Publications & Subscriptions 40,745 33,740 27,920 20,568 Software 56,200 43,277 50,345 59,844 Sortices 445,470 438,965 423,778 399,516 Fuel 31,700 31,122 28,370 91,55 Software 56,200 4,065 43,277 50,345 53,349 Promotion 1,000 12,000 13,877 91,55 53,300 6,751 6,919 16,652 Uniform Purchease < | Office Supplies | 6,600 | 6,600 | 4,620 | 7,531 |
| Administration Expense 7.000 12.750 32.779 29.452 Course Registration 50.700 55.300 29.451 36.711 Members Per Diems 8.500 8.500 7.200 6.730 ACAO Levy 31.125 29.575 29.971 28.298 Postage 2.330 2.550 1.918 2.249 Materials & Subscriptions 140.745 33.740 27.920 25.550 Software 56.200 142.000 8.441 10.218 Software 56.200 143.770 31.120 28.370 25.160 Software 56.200 43.275 50.345 59.844 Software 56.200 43.275 50.345 59.844 Software 56.200 43.275 50.345 59.844 Software 56.200 43.275 50.347 9.157 Small Tools 31.700 31.120 28.370 28.410 Vator 14.600 4.950 6.6234 41.311 <td>Future Benefit Expense</td> <td>20,000</td> <td>5,000</td> <td>5,000</td> <td>20,000</td> | Future Benefit Expense | 20,000 | 5,000 | 5,000 | 20,000 |
| Course Registration 50.700 55.300 29.451 36.711 Members Per Diems 8,500 8,500 7,200 6,750 OxAO Levy 31.125 29,575 29,571 229,971 28,239 Postage 2,390 2,550 1,918 2,249 Materials & Supplies 161,075 225,875 129,997 156,032 Publications & Subscriptions 40,745 33,740 27,920 20,536 Printing 12,000 8,441 10,218 398,361 Fuel 31,700 31,122 28,372 398,361 Promotion 1,100 4,050 1,525 10,38 Promotion 1,100 4,050 1,525 10,39 Transportation 14,000 12,000 30,190 6,244 Mater Sample Testing 27,500 6,000 30,190 6,244 41,317 Alor 41,650 41,550 41,530 46,849 31,90 11,377 10,622 11,377 10,622 | Staff Mileage | 17,900 | 17,850 | 15,797 | 15,561 |
| Members Per Diems 8,500 8,500 7,200 6,750 ACAO Levy 31,125 29,575 29,571 28,298 Postage 2,390 2,550 1,918 2,249 Materials & Supplies 161,075 225,875 129,997 154,032 Printing 12,000 8,441 10,218 39,361 Software 58,200 43,275 50,345 59,844 Software 58,200 43,275 50,345 59,844 Services 445,470 438,965 423,728 399,361 Fuel 31,700 31,120 28,370 25,180 Transportation 14,000 1,500 1,525 1,039 Transportation 14,000 1,566 2,334 Water Sample Testing 27,500 6,000 30,190 6,294 Hydro 44,650 43,950 3,623 44,319 Hydro 44,500 4,500 4,150 44,319 Gas 12,000 13,3 | Administration Expense | 27,000 | 12,750 | 32,779 | 29,452 |
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| Materials & Supplies 161.075 225.875 129.997 154.025 Publications & Subscriptions 40.745 33.740 27.920 20.536 Printing 12.000 8.441 10.218 Software 58.200 43.275 50.345 59.844 Sortivers 445.470 438.965 423.272 395.361 Fuel 31.700 31.120 28.370 25.180 Promotion 1,100 4.050 1.525 1.039 Transportation 14.000 12.000 13.877 9.157 Small Tools 3.000 4.000 15.66 2.334 Vater Sample Testing 27.500 6.000 30.190 6.294 Uniform Purchases 5.300 5.750 6.781 5.399 Taker 3.975 3.925 3.862 3.100 Water 4.500 4.500 4.1311 4.301 Attract 2.000 13.000 11.377 10.622 Callular 2.000 13.000 | ACAO Levy | | | 29,571 | |
| Publications & Subscriptions 40,745 33,740 27,920 20,553 Printing 12,000 12,000 8,441 10,218 Software 58,200 43,275 50,345 59,844 Services 445,470 438,965 423,728 395,361 Promotion 1,100 4,050 1,525 10,397 Promotion 1,100 4,050 1,525 10,397 Simall Tools 3,000 4,000 1,566 2,334 Water Sample Testing 27,500 6,000 30,190 6,234 Mydro 14,650 43,950 36,234 41,317 Brephone 15,825 11,775 16,049 10,652 Hydro 41,650 43,950 36,234 41,314 Gas 12,000 13,000 11,377 10,649 Gas 12,000 13,000 11,377 10,549 Tavel 30,110 22,010 27,976 18,103 Tavel 30,110 | - | | | | |
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Central Lake Ontario Conservation Authority

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 in various committees 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

Flood 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 the Ontario Ministry of Natural Resources and Forestry for the flood forecasting and warning program and the Ministry of Environment and Climate Change 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 state of the art 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. In 2018, CLOCA will continue to will work with Water Survey Canada (Environment Canada) to develop a new water level station on the Harmony Creek.

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. 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. An Early Warning System, developed in 2017 through National Disaster Management Funding, will be made operational in 2018. This system will send email alerts to appropriate staff to advise of water levels nearing flood conditions at various gauging stations.

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. On average, the shoreline surveys show that our bluffs erode at an average rate of about .15 metres per year. Obviously, not all years are equal, and shorelines can be static for some period of time, or move significantly after one single storm event.

Through our Regulation 42/06, CLOCA regulates any development within the erosion hazard of Lake Ontario. The shoreline surveys provide data to help in the determination of the hazard limit, and are useful when explaining the hazard of shoreline erosion to watershed residents.

CLOCA tested digital laser scanning technology in 2016, and will continue to research and test new methods for completing shoreline surveys including drone surveys, and advanced survey techniques. CLOCA is communicating with other Lake Ontario shoreline Authorities to share experiences and expertise.

Integrated Watershed Monitoring

CLOCA's monitoring program 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. In 2016, CLOCA identified a need to adapt the monitoring program to increase efficiencies, ensure continued relevancy, maximize integration, and ensure relevance. As a result, monitoring sites of the various disciplines were assimilated at a jurisdictional scope. This new monitoring program got underway in 2017, and will continue annually. In 2018, the results of the 2017 monitoring program will be shared with the public using the web-based ESRI Story Map application. Using this tool, the 2017 findings are combined with maps, text, images and multi-media content making for an easy to use source of information highlighting watershed health.

Water quality and aquatic monitoring includes benthos sampling using the Ontario Benthos Biomonitoring 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. In addition to the supplemental monitoring that will be undertaken in other watersheds, CLOCA will be supporting MNRF in monitoring the impacts following the 2014 manure spill in Lynde Creek on the endangered minnow, Red Side Dace. Surface water quality (chemical) monitoring will continue in 2018, further augmenting the Authority's information and water quality database.



Bird and amphibian data collection will continue and terrestrial monitoring plots will be maintained or established in accordance with the new integrated monitoring program. Work will continue on invasive species monitoring and programing with an emphasis on conducting projects to manage invasive species within our Conservation Areas.

Citizen Science

Consistent with advancing CLOCA's Strategic Plan, the Authority is participating in the Ontario BioBlitz which will be held in Durham Region in 2018. A BioBlitz event brings together taxonomic experts, citizen scientists and the general public to inventory species over a 24 hour period. In 2018, a spring BioBlitz event will be held at Heber Down Conservation Area and additional, guided events may be held throughout the summer and fall. At these events, participants record their findings and experts verify the information. Hosting this event at Heber Down will allow CLOCA to gain a broader understanding of the biodiversity at this Conservation Area and within the Lynde Creek Watershed.

Groundwater Well Maintenance and Testing

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.

MOECC 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.

Coastal Wetlands Monitoring

Monitoring of 18 coastal wetlands will continue in 2018. A number 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 2018, 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

In recognition of the future significant changes that were anticipated within CLOCA's watersheds since 2012, CLOCA's Watershed Plans recommended that an update be carried out in 5 years. In 2018, with funding support from the Region of Durham, this update will get underway starting with identification of watershed changes and assessment of the impacts these changes have had on watershed health. A focus will also be placed assessing future impacts of climate change on watershed health and the preparation of climate change policies, recommendations, and identification of adaptation and mitigation mechanisms. With the release of the Provincial Watershed Planning Guidance document, consultation with CLOCA's municipal partner's needs.

Implementation of watershed plan recommendations through the preparation of action plans will continue in 2018 and will include finalization of the Imperviousness Action Plan, the Natural Heritage Restoration Plan

and the Climate Change Action Plan. CLOCA staff will continue to work with the Region and local municipalities to seek endorsement of Watershed Plans through the incorporation of Watershed Plan recommendations into Municipal Official Plans.

Source Water Protection Plans

The Source Water Protection (SWP) initiative commenced in 2005, following recommendations made to Judge 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. CLOSPA's 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. CLOSPA has also been tasked with rolling up the threats information for the CTC SPR into a central repository for archiving and reporting purposes.



Climate Change

CLOCA is working on a number of fronts to advance our scientific and adaptation knowledge with respect to climate change. CLOCA will be undertaking a climate change adaptation plan which will support and guide the adoption and use of appropriate climate change policies within CLOCA's own policies and procedures. CLOCA is also working with Durham Region in their continued advancement of climate change adaptation planning, specifically for the flooding and natural heritage sectors.

Lynde Shores – Shisko Wetland Restoration

CLOCA staff has been involved in the development of the concept plan and preliminary design drawings for the 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. In 2018, CLOCA will continue being involved in reviewing detailed design and providing oversight on construction of this wetland feature. In an effort to further enhance wetland and aquatic habitat functions CLOCA will pursue additional opportunities to expand upon this wetland feature.

McLaughlin Bay Restoration

Work continues on implementing the restoration of McLaughlin Bay. Funding has been received to undertake a habitat improvement project along the western edge of the Bay. This restoration which will get underway in 2018 will improve water quality by reducing erosion and improving riparian vegetation and habitat. In participation with UOIT, CLOCA is undertaking a study to assess the amount of Zooplankton/Phytoplankton in the Bay. Completion of this study in 2018 will help to identify if a biological imbalance exists, information which will further inform restoration actions at McLaughlin Bay. These projects have received support from GM Headquarters, Ontario Parks, City of Oshawa and Friends of Second Marsh.



Oshawa Second Marsh Management Plan

With funding support from the City of Oshawa, CLOCA will participate in the preparation of a management plan for Oshawa Second Marsh. The original management plan 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 is necessary. 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 Restoration Priorities Plan

When completed later this year, the CLOCA Restoration Priorities Plan is a mapping tool that will identify and prioritize restoration opportunities which will improve and strengthen CLOCA's natural heritage system and overall watershed health. The development of this tool will utilize 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 publically, supporting watershed stakeholder and municipal restoration initiatives.

Corbett Creek Marsh Restoration

In an effort to improve conditions in Corbett Creek Marsh, CLOCA will be continuing efforts to engage the Town of Whitby, Thickson Woods Land Trust and others in the preliminary development of measures to support management and restoration efforts. Work will begin in 2018 to map phragmites communities in publically accessible areas within the Corbett Creek watershed and in the marsh.

| Watershed Management | | | | | | |
|--|-----------|-----------|-----------|-----------|--|--|
| | 0040 | 0047 | 0047 | 2010 | | |
| | 2018 | 2017 | 2017 | 2016 | | |
| Devenue | Budget | Budget | Actual | Actual | | |
| Revenue | | | | | | |
| General Levy | 894,835 | 812,225 | 827,670 | 781,805 | | |
| Municipal Special Levy | 72,500 | - | - | - | | |
| MNR Transfer Payment | 45,000 | 45,000 | 45,000 | 45,000 | | |
| Other Grants Federal | 19,300 | 114,040 | 112,458 | 65,284 | | |
| Other Grants Provincial | 10,200 | 6,200 | 6,196 | 6,114 | | |
| Other Revenue | 86,900 | 106,000 | 110,670 | 125,947 | | |
| Other Grants | - | 14,875 | - | 22,270 | | |
| Deferred Revenue | 11,830 | 11,840 | 27,331 | 21,732 | | |
| Donations | - | - | - | 4,400 | | |
| Secondary School Fees | - | - | 1,428 | 1,049 | | |
| | 1,140,565 | 1,110,180 | 1,130,754 | 1,073,601 | | |
| | | | | | | |
| | 2018 | 2017 | 2017 | 2016 | | |
| | Budget | Budget | Actual | Actual | | |
| Cost and Expenditures | Buuget | Budget | Addul | Addul | | |
| | | | | | | |
| Salaries & Wages | 688,500 | 681,000 | 660,484 | 647,962 | | |
| Wages Special Employment (summer students) | 74,400 | 71,500 | 84,117 | 80,425 | | |
| Benefits | 201,250 | 190,400 | 189,878 | 182,279 | | |
| Staff Mileage | 3,800 | 3,800 | 3,799 | 3,422 | | |
| Course Registration | 7,600 | 7,600 | 4,523 | 6,785 | | |
| Postage | 250 | 250 | 97 | 364 | | |
| Materials & Supplies | 18,900 | 12,825 | 14,255 | 14,701 | | |
| Publications & Subscriptions | 2,695 | 1,390 | 2,202 | 1,907 | | |
| Software | 10,200 | 3,300 | 9,879 | 10,571 | | |
| Services | 35,380 | 52,150 | 48,603 | 41,470 | | |
| Fuel | 600 | - | 914 | - | | |
| Promotion | - | - | 79 | - | | |
| Water Sample Testing | 27,400 | 6,000 | 29,826 | 5,902 | | |
| Uniform Purchases | - | - | - | 107 | | |
| Telephone | 1,500 | 1,500 | 1,341 | 1,400 | | |
| Cellular | 5,305 | 4,955 | 5,371 | 4,560 | | |
| Travel | 3,310 | 2,210 | 6,460 | 2,956 | | |
| Insurance | 400 | 375 | 374 | 601 | | |
| Equipment Purchases | 29,775 | 41,725 | 33,772 | 47,694 | | |
| Equipment Rental | 8,000 | 7,800 | 6,849 | - | | |
| Vehicle Recovery | 21,300 | 21,400 | 27,932 | 20,496 | | |
| | 1,140,565 | 1,110,180 | 1,130,754 | 1,073,601 | | |

External Contracts – YPDT (York, Peel, Durham & Toronto Groundwater Study)

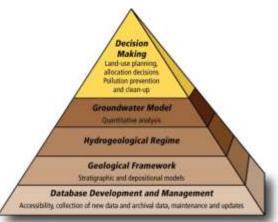
As part of an ongoing contribution, CLOCA administers a number of contracts on behalf of the Conservation Authorities Moraine Coalition and the Regions of Durham, Peel and York and the City of Toronto. Five staff (YPDT staff) for this initiative are housed in rental offices within the TRCA office at Highway 407 and Jane St. A review of the projects are summarized as follows:

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 2018, work will continue on a number of

initiatives including:

- Working with new consultant partners to improve program's data and information;
- Continued growth of the program database;
- Continued improvement in the program website with new tools available (e.g. for evaluating long term climate trends, for linking groundwater levels to climate and pumping records, 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 City of Toronto to incorporate geotechnical and hydrogeological reports and data into the program's systems;
- Submission of professional papers on hydrogeology of the Yonge Street Aquifer and on wetland modelling;
- Continued work on 'model harmonization' with initial focus on updating the authoritative geological layering across the study area but also to include incorporation of updated information from numerical model studies (i.e. data enhancements, hydrological/hydrogeological insights, etc.);
- Collection and incorporation of high quality data from select monitoring sites across the program study area;
- Continue to provide technical expertise to the partner agencies as requested.

| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual |
|------------------------------|----------------|----------------|----------------|----------------|
| Revenue | | | | |
| Other Revenue | 832,300 | 769,025 | 832,002 | 847,336 |
| Deferred Revenue | 69,300 | 73,075 | 22,455 | 4,700 |
| Insurance Proceeds | - | - | 3,200 | - |
| Consulting Revenue | 25,000 | - | - | - |
| | 926,600 | 842,100 | 857,657 | 852,036 |
| | | | | |
| | 2018 Budget | 2017 Budget | 2017 | 2016 |
| Cost and Expenditures | Budget | Budget | Actual | Actual |
| Wages Contract | 572,450 | 534,800 | 538,920 | 495,552 |
| Benefits | 134,100 | 126,800 | 130,384 | 124,963 |
| Future Benefit Expense | 20,000 | 5,000 | 5,000 | 20,000 |
| Staff Mileage | 3,000 | 3,000 | 1,522 | 1,578 |
| Administration Expense | 10,000 | 12,750 | 15,779 | 12,927 |
| Course Registration | 6,000 | 8,000 | 6,626 | 2,843 |
| Postage | 40 | 50 | 32 | _, _ / _ / |
| Materials & Supplies | 6,500 | 2,000 | 6,505 | 2,705 |
| Publications & Subscriptions | 4,500 | 3,500 | 4,320 | 3,226 |
| Software | 20,000 | 20,000 | 14,585 | 28,647 |
| Services | 80,750 | 78,000 | 81,321 | 73,168 |
| Fuel | 4,000 | 4,000 | 3,685 | 3,264 |
| Telephone | 3,100 | 50 | 5,277 | 438 |
| Cellular | 3,500 | 3,500 | 3,275 | 3,195 |
| Travel | 21,400 | 12,000 | 14,738 | 9,782 |
| Insurance | 1,835 | 1,625 | 1,602 | 1,567 |
| Legal Fees | - | - | 695 | 432 |
| Audit Fees | 3,000 | 2,870 | 2,870 | 2,205 |
| Bank Service Charges | 175 | 155 | 158 | 142 |
| Donation | | - | 103 | - |
| Payroll Processing Fees | 1,000 | 750 | 767 | 716 |
| Office Services | 16,250 | 17,050 | 16,249 | 15,343 |
| Equipment Purchases | 15,000 | 6,000 | 3,064 | 49,224 |
| Vehicle Recovery | - | 200 | 181 | 116 |
| | 926,600 | 842,100 | 857,657 | 852,036 |

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.

2018 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 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.
- Initiate review of CLOCA's Policy and Procedural Document for Regulation and Plan Review to update policy directions and to streamline and ad clarity wherever possible including conformity with the recently completed provincial review of the 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.
 - 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 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).

2018 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.

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.

National Disaster Mitigation Program

Under the National Disaster Mitigation Program (NDMP), CLOCA receives 50% federal funding for flood mitigation projects. In 2018, CLOCA will be working with the City of Oshawa in the updating of the Oshawa Creek/Goodman Creek Two Zone Flood Study, and will be working with the Ganaraska and Lower Trent Region Conservation Authorities on a Lake Ontario Shoreline Management Plan.

| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual |
|-----------------------------------|----------------|----------------|----------------|----------------|
| Revenue | | | | |
| General Levy | 183,765 | 309,310 | 7,300 | 41,377 |
| MNR Transfer Payment | 62,000 | 62,000 | 62,000 | 62,000 |
| Other Grants Federal | - | - | 505 | 6,595 |
| Other Revenue | - | 76,800 | 90,663 | 7,284 |
| Deferred Revenue | 58,200 | - | 528 | - |
| Map Sales | 5,000 | 4,000 | 9,190 | 6,850 |
| Property Inquiry Fee | 20,000 | 15,925 | 25,010 | 23,700 |
| Regulations 42/06 Permit | 380,000 | 275,000 | 376,055 | 321,835 |
| Plan Review Fees | 785,000 | 530,000 | 781,535 | 521,632 |
| Fill Sites Large Application Fees | 75,000 | 105,000 | 47,880 | 116,640 |
| | 1,568,965 | 1,378,035 | 1,400,667 | 1,107,912 |

Environmental Plan Review & Regulation Services

| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual |
|------------------------------|----------------|----------------|----------------|----------------|
| Cost and Expenditures | | | | |
| Salaries & Wages | 1,119,300 | 990,500 | 996,452 | 832,013 |
| Benefits | 307,200 | 273,700 | 274,138 | 222,511 |
| Staff Mileage | 7,500 | 7,000 | 6,820 | 6,491 |
| Course Registration | 5,000 | 8,000 | 3,955 | 3,105 |
| Postage | - | - | 14 | 13 |
| Materials & Supplies | 600 | 1,100 | 1,231 | 672 |
| Publications & Subscriptions | 12,600 | 10,200 | 3,417 | 1,558 |
| Software | 9,500 | 8,875 | 6,664 | 3,159 |
| Services | 25,000 | 5,600 | 22,570 | - |
| Promotion | - | - | 45 | - |
| Telephone | 1,000 | - | - | - |
| Cellular | 2,300 | 1,660 | 2,069 | 1,432 |
| Travel | 1,500 | 4,100 | 1,380 | 1,683 |
| Insurance | 23,265 | 23,100 | 23,078 | 22,341 |
| Legal Fees | 50,000 | 40,000 | 55,072 | 9,699 |
| Vehicle Recovery | 4,200 | 4,200 | 3,761 | 3,235 |
| | 1,568,965 | 1,378,035 | 1,400,667 | 1,107,912 |

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 targets. Technical assistance is provided and partner funding sought for implementing priority stewardship projects. In 2017, the majority of stewardship projects focused on tree planting with 80,484 trees planted to restore 42 hectares of land. This trend for tree planting for Stewardship will continue in 2018, as current corporate partners have indicated they value the success of our accomplishments to date.

Well Decommissioning Program

CLOCA re-introduced the Well Decommissioning Program in 2017 providing technical and financial assistance to landowners in our jurisdiction. Wells provide a direct link from land surfaces to the water bearing subsurface zones that represent the source water for other wells and local creeks in the watershed. 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 2017, four landowner visits and technical advice were provided and 1 well decommissioned. Information about the service, application and brochure have been distributed to municipalities and residents through public events.

Increasing Watershed Tree Cover

We continue to recreate 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 the spring we planted 80,484 trees in headwater areas of the Bowmanville and Soper Creek Watersheds associated with 407 compensation, RBC Earth Day Event and planting with the 1st Enniskillen Scouts. In the fall, we planted 900 native trees and shrubs in partnership with TD Tree Days at Heber Down, Purple Woods and Enniskillen Conservation Areas for a total of 41.95 hectares of land reforested.

The Clarington Rural Roads Tree Program has planted 4,500 trees along rural roads in the municipality since it began in 2012. This year more than 47 residents participated with the planting of an additional 688 trees. The program has many benefits aside from improving the aesthetics of the rural countryside, it increases tree canopy and provides wildlife habitat.

Home Improvement Program (HIP)

CLOCA staff will continue to work with schools, volunteers, community organizations and naturalists 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 corporations to make improvements to our Conservation Areas which includes working on trails, signage, bridges, fencing and planting native plants. In 2017, we installed another 25 blue bird boxes at the Carruthers tract. In 2018 we will be constructing a bee hotel at the Enniskillen Education Centre in partnership with Courtice Secondary School and Ontario Power Generation Darlington Nuclear.

Invasive Species Management

CLOCA continues to implement its Invasive Species Management Strategy within our conservation land holdings. With a focus on prevention, detection, response and management the 2018 work plan will:

- implement components of the Rogers Tract Invasive Species Management Plan;
- continue mapping invasive species in CLOCA's conservation areas;
- map phragmites communities in the Corbett Creek watershed and Corbett Creek Marsh;
- continue managing several of CLOCAs invasive species management pilot projects; and
- work with the Ontario Federation of Anglers and Hunters to hire a hit squad student to conduct outreach within CLOCA's watersheds

EDUCATION

For the past 29 years, Central Lake Ontario Conservation Authority (CLOCA) has delivered formal and informal education programs to ensure environmental literacy for students and constituents in our jurisdiction. The following is a summary of our accomplishments for the 2016/17 school year.

In Your Watershed

In partnership with our four local school boards, we are now in our 29th year of offering curriculum based outdoor environmental programs to elementary grades. The *In Your Watershed* (IYW), consists of 16 year round and seasonal programs to more than 6,100 students in the 2016/17 school year. We continue to partner in a number of community programs like *Farm Connections*, where kids get to be a farmer for the day, with more than 1,200 grade 3 students attending the 3 day program and 900 family members at the evening public open house. We also host the YMCA Environmental Camp and Ontario Power Generation's Tuesdays on the Trail at the Enniskillen Education Centre, engaging 1,300 participants in the summer of 2017.



For the second year in a row, we delivered the Wetland Centre of Excellence Mentorship Program sponsored by Ducks Unlimited Canada and the Ontario Trillium Foundation where we reached 23 elementary and 6 high school classes. Efforts are being made by the partners and school boards to fund this program in future years.

Durham Children's Watershed Festival (Formerly the Durham Children's Groundwater Festival)

In 2017 we celebrated the Festival's 20th anniversary and Canada's 150th anniversary, with a "Next Generation" focus. A name change replaced the word "groundwater" with "watershed" to better connect participants to all water resources and their importance to human health and ecosystem function. The Festival was held at Camp Samac with 3,846 grade four students and 774 teachers and adult volunteers attending. Contributions from sponsors cover 75 per cent of operating costs, which makes attendance fees affordable. A total of 10 sponsors were on board in 2017 and recognized through a VIP lunch during the Festival.



Summer Programs

A first ever free public evening was held with participants given an opportunity to participate in the regular day time activities plus some very special offerings including the edible aquifer from Oak Ridges Moraine Land Trust; wild animals from Soper Creek Wildlife Rescue; the AR Sandbox; a Chief Topleaf presentation; CLOCA staff guided tours to view the salmon migration; and a snow plow from the Municipality of Durham Fleet Division that demonstrated the "Low Salt Diet – Protect the Watershed" activity.

The YMCA of Greater Toronto implemented year two of its outdoor environmental summer camp from the Enniskillen Education Centre. The camp operates for 9 weeks during July and August. With the exception of 6 Tuesdays during the summer, which is reserved for the OPG Tuesdays on the Trail program, they have exclusive access to the Education Centre. Revenues generated through this program assist us in maintaining and upgrading the building and the facility. We estimate 2,999 people participate in both summer programs in 2017.

OUTREACH

With our partners, we hosted 18 programs and events, provided 21 corporate and community presentations, attended 6 community events, delivered 5 curriculum based education programs to 12,067 students, produced 5 corporate communication products, engaged 1,501 volunteers and we hosted 2,299 people in our summer camp programs in partnership with the YMCA GTA and OPG Darlington.

Shaping Our Watersheds

Our Augmented Reality Sandbox has been replaced with a more portable model that is easily calibrated and delivered off site to meet the increasing demand for this unique activity. The sand is contained in a box to simulate a watershed, and comes to life when the 3D projector creates actual real-time contours and coloured shading to project a landscape on the sand. The sand is manipulated by hand to create wetlands, creeks, valleys, flood, and rain events, all with a very graphic visual sense of how water moves in our watershed. The model was shared at a number of events in 2017 including at the Durham Children's Watershed Festival as an Activity Centre, UOIT Science Rendezvous, CACIS 2017, Centre for Inland Waters DFO Open House reaching a total of 3,300 general public and agency staff.



Watershed Wilderness Nature Hikes

In 2018 staff will continue to offer hands-on events, with a special Celebrate 60 Saturdays events offered over the 4 seasons at different Conservation Areas to engage our watershed families. In 2017, we hosted our annual Family Snowshoe in February and our first ever Duck Day in May in partnership with Ducks Unlimited Canada and Ontario Trillium Foundation. Over 100 visitor's attended the event where they learned how to be better stewards of our wetlands. Visitors received a close up, personal look at turtles and other critters brought by Speaking of Wildlife and the Ontario Turtle Conservation Centre. Each family received a pond exploration kit which consisted of a bucket, net, magnifying glass and identification cards. The YMCA of Greater Toronto Area was also present with activities for the public.

In 2017, we continued to partner with Ontario Shores Mental Health Sciences Centre, the Canadian Mental Health Association and Conservation Ontario, hosting a series of outdoor hikes for youth in our watershed. The program is called Mood Walks and promotes physical and mental wellness by creating new opportunities for young people to get active and get outside.



Purple Woods Maple Syrup Festival and Sugar Bush

For 43 years CLOCA and their many community partners have contributed to the successful delivery of the annual Maple Syrup Festival at the Purple Woods Conservation Area. With over 10,000 visitors in attendance, and more than 1,300 litres of syrup produced the Festival surpassed many milestones in 2018 and continues to be a major regional attraction for Durham residents. A highlight for 2018 was lots of sunshine, continued sponsorship and dedicated community volunteers.

Corporate Heroes

CLOCA staff championed a successful nomination for Ducks Unlimited Canada in 2017 to receive a Durham Environmental Advisory Committee Award in recognition of their numerous wetland restoration projects, fundraising initiatives, public use and education programs in Durham Region in partnership with Central Lake Ontario Conservation and many watershed community stakeholders over the past 18 years. This year we nominated Farm Connections and Ontario Federation of Anglers and Hunters for continuing to support health watersheds.

CORPORATE COMMUNICATION

This includes the operating costs associated with communications to ensure that the public and partners are informed about CLOCA's programs and services. Products and services will include building media relations; marketing our programs and accomplishments; developing Conservation Area signage; design and production of corporate publications, brochures, report cards, reports, and fact sheets; producing the CLOCA annual Year in Review; maintaining and updating our website; social media; developing new online services; servicing the communication needs of all CLOCA departments with design and publication services; supporting external community environmentally themed programs and projects with partners and stakeholders. In 2018 a review of our corporate website will be a priority as well as developing a product plan to support the CLOCA Strategic Plan action items.

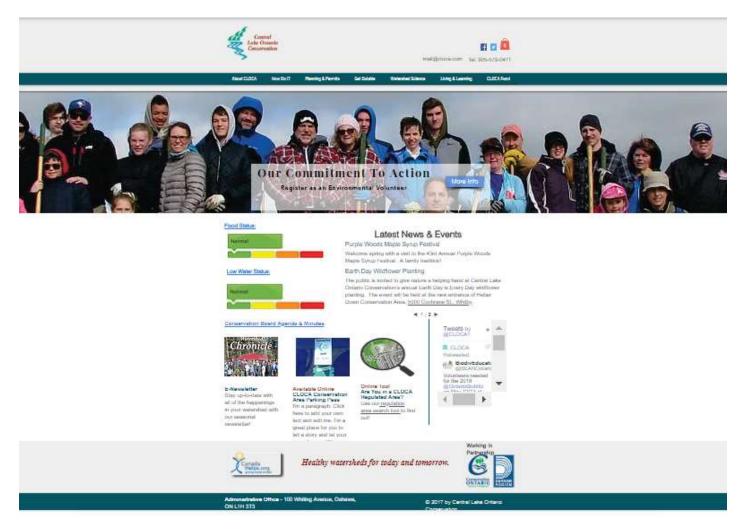
CLOCA Chronicle E-Newsletter

There were four issues of the CLOCA Chronicle issued in 2017 to our mailing list of 2,000. The e-newsletters continue to be well received and offers us another tool to engage a broad audience in showcasing the work we do across all departments. We anticipate issuing 4 e-newsletters in 2018.

Webpage Update

After more than 13 years, our communications staff are updating our website to make it more mobile friendly, meet accessibility standards and make document searching much easier. The new software requires no coding and will make it easier for staff to update their programs and services. The new website will allow us to more opportunities to track and report on website traffic.

Draft text is being worked on and Communications staff will be meeting department staff to finalize content in the first half of 2018.



| C | community Engag | jement | | |
|--------------------------------------|-----------------|----------------|----------------|----------------|
| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual |
| Revenue | | | | |
| General Levy | 447,645 | 419,780 | 415,121 | 384,167 |
| Municipal Special Levy | 50,000 | 50,000 | 50,000 | 50,000 |
| Other Grants Provincial | - | | - | 5,838 |
| Other Revenue | 1,000 | 13,250 | 41,817 | 77,705 |
| Deferred Revenue | 3,165 | 3,165 | - | (3,164 |
| Administrative Services | - | - | 933 | 928 |
| Maple Syrup Sales | 35,000 | 35,500 | 35,795 | 32,410 |
| Merchandise Sales | 13,500 | 13,500 | 13,929 | 19,475 |
| Maple syrup sales- Office | 6,500 | 6,500 | 6,961 | 7,422 |
| Gate Fees | 55,000 | 39,000 | 40,273 | 40,707 |
| Donations | 45,000 | 45,000 | 40,017 | 56,389 |
| Community Pancake sales | 26,670 | 25,000 | 30,662 | 28,285 |
| Cloca Days Pancake sales | 3,800 | 9,000 | 3,973 | 3,472 |
| Education Fees Elementary | 66,000 | 60,000 | 70,738 | 58,543 |
| Secondary School Fees HST Applicable | - | - | 111 | - |
| Maple Syrup Tours | 10,000 | 10,000 | 12,272 | 10,763 |
| | 763,280 | 729,695 | 762,602 | 772,940 |

| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual |
|--|----------------|----------------|----------------|----------------|
| Cost and Expenditures | | 0 | | |
| Salaries & Wages | 462,450 | 435,030 | 450,995 | 437,149 |
| Wages Seasonal (PW Maple Syrup Festival) | 23,050 | 18,500 | 19,558 | 21,177 |
| Benefits | 124,450 | 122,070 | 122,956 | 121,505 |
| Office Supplies | 100 | 100 | 538 | - |
| Staff Mileage | 650 | 350 | 776 | 1,285 |
| Course Registration | 1,300 | 2,900 | 287 | 1,630 |
| Postage | 100 | 250 | 32 | 151 |
| Materials & Supplies | 17,100 | 15,750 | 45,414 | 73,611 |
| Publications & Subscriptions | 7,100 | 5,100 | 7,563 | 3,798 |
| Software | | | 385 | 392 |
| Services | 50,765 | 50,165 | 34,835 | 50,148 |
| Fuel | 100 | 120 | 9 | 11 |
| Promotion | 900 | 3,850 | 476 | 650 |
| Transportation | 14,000 | 12,000 | 13,877 | 9,157 |
| Uniform Purchases | - | 450 | - | - |
| Gas | - | - | - | 224 |
| Cellular | 1,800 | 1,750 | 1,484 | 1,462 |
| Travel | 200 | 200 | 68 | 81 |
| nsurance | 415 | 430 | 396 | 377 |
| Bank Service Charges | 2,500 | 2,000 | 2,643 | 2,066 |
| Donation (Pancake Program) | 6,800 | 6,580 | 8,306 | 8,353 |
| Purchases for Resale | 10,000 | 12,000 | 9,671 | 9,227 |
| Equipment Purchases | 200 | 2,700 | 3,764 | 1,526 |
| Vehicle Recovery | 5,100 | 6,200 | 7,659 | 4,941 |
| Equipment Recovery | 500 | 500 | 1,466 | 2,402 |
| Bulk for Resale | 14,700 | 15,700 | 10,299 | 6,986 |
| Pancake Group Expenses | 19,000 | 15,000 | 19,144 | 14,632 |
| | 763,280 | 729,695 | 762,602 | 772,940 |

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 maintenance of our lands including removal of thickets to preserve grassland habitats, and removal of non-native invasive plants. Scheduled inspections following our Conservation Areas Risk Management Policy direct our activities in facility repair, trail maintenance, and hazard tree work required to maintain public infrastructure for 8 public Conservation Areas and 45 kilometers of trail.

The Emerald Ash Borer continues to have a devastating impact on our natural areas with hundreds of dead and declining ash trees requiring removal to protect the public. Hazard tree assessments and removal programs will continue for all public use portions of our landholdings.

Conservation Areas Planning and Development

In 2018, Conservation Area Planning work will focus on the on-going implementation of restoration projects at Lynde Shores and Heber Down Conservation Areas. At Heber Down CA, landscaping work will be completed for the newly established Cochrane Street entrance to complete the accessible trail and picnic area portions of the site.





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. An accessible trail will be built with funding support from the Accessibility Enabling Fund administered by Employment and Social Development Canada.

Rogers Tract

At the Rogers Tract, work will be initiated to investigate and develop restoration plans for the main ponds. This work will include the submission of permit applications to responsible agencies, including the Ministry of Natural Resources. 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. Restoration plans will focus on naturalization of the pond areas to a stream channel with healthy riparian vegetation. This restoration work will have positive improvements to the aquatic habitat and thermal regime.

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 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 get underway in 2018. 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 will develop a Conservation Landholdings Master Plan over the next 2 years. This plan will guide current and future decisions with respect to land needs and management needs for the next 50 years. Consultant services with a focus on facilitation of public and agency engagement will be utilized to support this project.

| | CA Land Management | | | | | |
|------------------------|--------------------|-----------|-----------|-----------|--|--|
| | 2018 | 2017 | 2017 | 2016 | | |
| Revenue | Budget | Budget | Actual | Actual | | |
| Kevende | | | | | | |
| General Levy | 767,340 | 697,387 | 766,042 | 661,400 | | |
| Municipal Special Levy | 85,000 | 0 | - | 2,340 | | |
| Other Grants Federal | 17,400 | 224,600 | 112,527 | 31,486 | | |
| Other Revenue | 48,000 | 71,750 | 85,907 | 39,797 | | |
| Other Grants | 6,000 | 0 | - | - | | |
| Reserve Transfer | (22,600) | 50,080 | (12,647) | (52,181 | | |
| Deferred Revenue | 10,000 | 2,943 | | 2,238 | | |
| Property Rental | 58,015 | 61,725 | 58,015 | 67,797 | | |
| Facility Rental Fees | 8,000 | 7,000 | 18,216 | 11,748 | | |
| Commercial Rent Signs | 7,200 | 7,400 | 7,233 | 6,932 | | |
| Honour Box | | | 71 | 625 | | |
| Pay & Display Parking | 117,500 | 117,230 | 117,809 | 131,841 | | |
| Interest Earned | 750 | 150 | 1,246 | 713 | | |
| Seasons Passes | 13,000 | 11,000 | 16,855 | 16,482 | | |
| Donations | 66,000 | 70,750 | 77,500 | 174,022 | | |
| | 1,181,605 | 1,322,015 | 1,248,774 | 1,095,240 | | |

| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual |
|--|----------------|----------------|----------------|----------------|
| Cost and Expenditures | | | | 7101000 |
| Wages Permanent | 496,700 | 434,000 | 426,378 | 425,912 |
| Wages Special Employment | 49,700 | 40,650 | 39,613 | 40,719 |
| Benefits | 142,200 | 126,050 | 119,598 | 119,288 |
| Staff Mileage | 500 | 500 | 900 | 824 |
| Administration Expense | 17,000 | - | 17,000 | 16,525 |
| Course Registration | 8,800 | 8,800 | 3,306 | 3,011 |
| Postage | - | - | 99 | 78 |
| Materials & Supplies | 99,475 | 175,725 | 39,198 | 42,969 |
| Publications & Subscriptions | 1,500 | 1,500 | 1,742 | 1,164 |
| Services | 111,250 | 120,100 | 110,098 | 77,681 |
| Promotion | | | 60 | 30 |
| Water Sample Testing | 100 | | 364 | 392 |
| Telephone | 1,725 | 1,725 | 1,639 | 1,672 |
| Hydro | 16,650 | 16,950 | 13,274 | 13,822 |
| Alarm | 1,375 | 1,375 | 1,340 | 1,340 |
| Gas | 6,000 | 7,000 | 5,348 | 4,781 |
| Cellular | 5,300 | 5,300 | 5,032 | 4,737 |
| Travel | 800 | 800 | 988 | 876 |
| Taxes | 40,100 | 49,150 | 37,774 | 30,890 |
| Insurance | 6,800 | 6,545 | 6,527 | 3,145 |
| Legal Fees | - | - | - - | 10,110 |
| Audit Fees | 1,500 | - | 1,476 | 5,597 |
| Bank Service Charges | 1,835 | 735 | 1,483 | 1,025 |
| Land Acquisition | - | - | - | 75,260 |
| Permit/Approval Fees | - | - | 550 | 4,322 |
| Donation | - | - | - | 14,740 |
| Construction Contracts | 61,300 | 241,500 | 313,674 | 83,481 |
| Consultant | - | - | - | 13,890 |
| Pay & Display Software Monitoring Fees | 4,645 | 3,300 | 3,340 | 2,249 |
| Equipment Purchases | 42,200 | 17,560 | 36,571 | 44,484 |
| Equipment Rental | 100 | 100 | 366 | 427 |
| Vehicle Recovery | 55,000 | 53,600 | 52,302 | 41,716 |
| Equipment Recovery | 9,050 | 9,050 | 8,735 | 8,081 |
| | 1,181,605 | 1,322,015 | 1,248,774 | 1,095,240 |

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 2018 budget is the replacement of two vehicles and replacement of an off road utility vehicle for the Conservation Area program.

| Vehicles & Equipment | | | | | | | |
|-----------------------|----------------|----------------|----------------|----------------|--|--|--|
| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual | | | |
| Revenue | | | | | | | |
| General Levy | 51,450 | 54,550 | 43,613 | 58,205 | | | |
| Reserve Transfer | - | | 30,000 | - | | | |
| Rental Recovery | 108,650 | 108,650 | 111,271 | 91,210 | | | |
| | 160,100 | 163,200 | 184,884 | 149,415 | | | |
| | | | | | | | |
| | 2018 | 2017 | 2017 | 2016 | | | |
| | Budget | Budget | Actual | Actual | | | |
| Cost and Expenditures | | | | | | | |
| Salaries & Wages | 10,500 | 10,400 | 7,984 | 9,522 | | | |
| Benefits | 3,100 | 3,100 | 2,235 | 2,699 | | | |
| Materials & Supplies | 3,600 | 3,600 | 2,543 | 3,014 | | | |
| Services | 21,000 | 25,000 | 19,368 | 22,889 | | | |
| Fuel | 27,000 | 27,000 | 23,762 | 21,904 | | | |
| Small Tools | 3,000 | 4,000 | 1,568 | 2,334 | | | |
| Insurance | 10,850 | 11,100 | 10,898 | 10,431 | | | |
| Licence | 2,000 | 1,750 | 1,734 | 1,557 | | | |
| Equipment Purchases | 28,350 | 27,650 | 58,417 | 26,975 | | | |
| Vehicle Purchases | 49,000 | 47,900 | 53,953 | 46,772 | | | |
| Vehicle Recovery | 1,700 | 1,700 | 2,422 | 1,319 | | | |
| | - 160,100 | - 163,200 | - 184,884 | - 149,415 | | | |

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 business continuity plan to lay the foundation for future expansion of the information technology infrastructure. In 2018, 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 project. 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 implementation 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 will leverage the information stored in Watershed CARE 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.



Urban and Regional Information Systems Associations Ontario Gold Best Web GIS Award

(CLOCA) received the Gold Best Web GIS Award this week from the Urban and Regional Information Systems The URISA Ontario Association (URISA) Ontario. supports GIS professionals at all stages of their careers with essential training and resources to foster excellence and grow the GIS profession across the province. As part of their commitment to recognize a variety of achievements and challenges, URISA Ontario has developed an annual awards program in recognition of leaders in the geospatial industry. Under the Best Challenge Awards, CLOCA received the Gold Best Web GIS Award for our Oak Ridges Moraine Groundwater Program website. The award recognized the website for its ability to demonstrate advanced internet/intranet mapping services that enable publishing and sharing of geographic information through the integration of multiple business systems.



Watershed CARE (Collect, Analyse, Report, Educate)

Continue to enhance CLOCA's water and climate monitoring system (Watershed CARE) to include more frequent data acquisition, visual data editing capabilities, and improvements in reliability and efficiency of data collection. 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 | | | | | | | |
|-------------------------|----------------|----------------|----------------|----------------|--|--|--|
| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual | | | |
| Revenue | | | | | | | |
| General Levy | 1,477,120 | 1,435,680 | 1,342,919 | 1,303,784 | | | |
| MNR Transfer Payment | 18,000 | 18,000 | 17,833 | 17,833 | | | |
| Other Grants Federal | 1,200 | 1,200 | 1,197 | 22,289 | | | |
| Other Revenue | 40,000 | 40,000 | 71,341 | 89,799 | | | |
| Reserve Transfer | - | - | (8,582) | (9,827) | | | |
| Deferred Revenue | 62,000 | - | - | - | | | |
| Interest Earned | 20,000 | 12,000 | 31,610 | 19,469 | | | |
| Administrative Services | 27,000 | 16,500 | 32,779 | 29,452 | | | |
| Merchandise Sales | - | - | 69 | 33 | | | |
| Donations | - | - | 275 | 275 | | | |
| Sandbox Demo | - | - | 400 | - | | | |
| | 1,645,320 | 1,523,380 | 1,489,842 | 1,473,108 | | | |

| Corporate Services | | | | | |
|--|----------------|----------------|----------------|----------------|--|
| | 2018 Budget | 2017 Budget | 2017 Actual | 2016 Actual | |
| Cost and Expenditures | | | Teruar | ////// | |
| | 040,400 | 004 000 | 700.000 | 700.050 | |
| Salaries & Wages | 818,400 | 801,900 | 783,223 | 782,053 | |
| Wages Special Employment (summer Students) | 20,000 | 040 500 | 9,312 | 000 000 | |
| Benefits | 214,400 | 212,500 | 209,096 | 206,300 | |
| Office Supplies | 6,500 | 6,500 | 4,082 | 7,531 | |
| Staff Mileage | 2,450 | 3,200 | 1,979 | 1,961 | |
| Course Registration | 22,000 | 20,000 | 10,755 | 19,337 | |
| Members Per Diems | 8,500 | 8,500 | 7,200 | 6,750 | |
| ACAO Levy | 31,125 | 29,575 | 29,571 | 28,298 | |
| Postage | 2,000 | 2,000 | 1,644 | 1,639 | |
| Materials & Supplies | 14,900 | 14,875 | 20,850 | 16,360 | |
| Publications & Subscriptions | 12,350 | 12,050 | 8,675 | 8,883 | |
| Printing | 12,000 | 12,000 | 8,441 | 10,218 | |
| Software | 18,500 | 11,100 | 18,831 | 17,075 | |
| Services | 121,325 | 107,950 | 106,942 | 130,005 | |
| Promotion | 200 | 200 | 865 | 359 | |
| Uniform Purchases | 5,300 | 5,300 | 6,781 | 5,232 | |
| Telephone | 8,500 | 8,500 | 7,792 | 7,144 | |
| Hydro | 25,000 | 27,000 | 22,959 | 27,489 | |
| Alarm | 2,600 | 2,550 | 2,522 | 1,850 | |
| Water | 4,500 | 4,500 | 4,150 | 4,148 | |
| Gas | 6,000 | 6,000 | 6,029 | 5,577 | |
| Cellular | 2,400 | 1,140 | 999 | 1,064 | |
| Travel | 2,900 | 2,700 | 4,440 | 2,724 | |
| Taxes | 1,620 | 1,750 | 1,620 | 1,697 | |
| Insurance | 28,650 | 25,940 | 27,093 | 25,681 | |
| Legal Fees | 15,000 | 15,000 | 9,930 | 10,257 | |
| Audit Fees | 20,000 | 20,000 | 17,693 | 18,503 | |
| Bank Service Charges | 4,700 | 4,000 | 4,570 | 3,891 | |
| Permit/Approval Fees | - | - | - | 253 | |
| Donation | 400 | 600 | 330 | 600 | |
| Payroll Processing Fees | 7,300 | 7,250 | 7,248 | 7,039 | |
| Purchases for Resale | - | - | 62 | 33 | |
| Equipment | 178,800 | 122,500 | 122,150 | 89,681 | |
| Equipment Rental | 15,200 | 14,500 | 15,193 | 14,572 | |
| Vehicle Recovery | 11,300 | 11,300 | 6,457 | 8,659 | |
| Equipment Recovery | 500 | 500 | 358 | 246 | |
| ſ | 1,645,320 | 1,523,380 | 1,489,842 | 1,473,108 | |



