

NOTICE TO

CLOCA BOARD OF DIRECTORS

Please find enclosed the **agenda** and supporting documents for the **CLOCA Board of Directors Meeting** on **Tuesday, April 18, 2023, at 5:00 p.m.** This meeting will be a **Hybrid meeting**. Members can join either virtual through zoom or attend in-person at the Authority's Administrative Office - 100 Whiting Avenue, Oshawa. Please advise if you will be joining virtually through zoom.

The list below outlines upcoming meetings and events for your information.

UPCOMING MEETINGS & EVENTS

DATE	TIME	EVENT	LOCATION
Tuesday, April 18/23	5:00 p.m.	CLOSPA Board of Directors Meeting	Hybrid Meeting
Tuesday, April 18/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting Immediately following CLOSPA Board of Director's Meeting
Tuesday, May 16/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, June 20/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, July 18/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, September 19/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, October 17/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, November 21/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, December 19/23	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting

LATEST NEWS

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"Healthy Watersheds for Today and Tomorrow"

CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY

A G E N D A

AUTHORITY MEETING

Tuesday, April 18, 2023 - 5:00 P.M.

HYBRID MEETING LOCATION: VIRTUAL THROUGH ZOOM (ACCESS DETAILS TO BE PROVIDED)
OR 100 WHITING AVENUE, OSHAWA, AUTHORITY'S ADMINISTRATIVE OFFICE, BOARDROOM

CIRCULATION LIST

Authority Elizabeth Roy, Chair
Members: Bob Chapman, Vice Chair
Marilyn Crawford
Sami Elhajjeh
Bruce Garrod
Ron Hooper
Rick Kerr
Chris Leahy
Tito-Dante Marimpietri
Ian McDougall
Rhonda Mulcahy
John Neal
David Pickles
Corinna Traill
Steve Yamada

Authority C. Darling, Chief Administrative Officer
Staff: B. Boardman, Executive/Accounting Administrator
R. Catulli, Director, Corporate Services
J. Davidson, Director, Watershed Planning & Natural Heritage
L. Hastings, Communications Specialist
D. Hope, Conservation Lands & Education Manager
C. Jones, Director, Planning & Regulation
P. Sisson, Director, Engineering, Field Operations & Education
L.Vaja, Executive Assistant/Health & Safety Administrator/ Recording Secretary
R. Wilmot, Information Management & Technology Manager

Others:

AGENDA ITEM:

SUPPORTING DOCUMENTS

1. CHAIR'S WELCOME

Central Lake Ontario Conservation Authority works within the traditional territory of the Huron-Wendat, Haudenosaunee, Mississauga, and Chippewa Nations and within the jurisdiction of the Williams Treaties. We are grateful for the continued work of many First Nations, Métis, and Inuit Peoples who are the original caretakers of the land and waters. In our local watershed, we have a responsibility to work collaboratively with the neighbouring communities of Scugog Island, Hiawatha, Alderville, and Curve Lake First Nations.

2. DECLARATIONS of interest by members on any matters herein contained.

3. ADOPTION OF MINUTES of March 18, 2023

pg. 1

4. PRESENTATIONS – None

5. CORRESPONDENCE – None

6. DIRECTOR, PLANNING & REGULATION

(1) Staff Report #5824-23

pg. 4

Re: Permits Issued for Development, Interference with Wetlands, and Alteration to Shorelines and Watercourses – March 1 to 31, 2023

Cont'd

7. DIRECTOR, WATERSHED PLANNING & NATURAL HERITAGE

- (1) Staff Report #5826-23 pg. 6
Re: CLOCA Conservation Areas Meet Pan-Canadian Standards for Protected Areas
And Are Now Included in the Canadian Protected and Conserved Areas Database (CPCAD)

8. DIRECTOR, ENGINEERING, FIELD OPERATIONS & EDUCATION

- (1) Staff Report #5825-23 pg. 10
Re: Lynde Creek Floodplain Mapping – Award of Contract

9. DIRECTOR, CORPORATE SERVICES – *None*

10. CHIEF ADMINISTRATIVE OFFICER

- (1) Staff Report #5827-23 pg. 11
Re: Central Lake Ontario Conservation Authority Watershed Report Card 2023

11. CONFIDENTIAL MATTERS – *None*

12. NEW AND UNFINISHED BUSINESS – *None*

13. ADJOURNMENT

A G E N D A
SUPPORTING DOCUMENTS

MEETING OF: Authority

DATE: Tuesday, April 18, 2023

TIME: 5:00 p.m.

LOCATION: Hybrid – Virtual through Zoom
or 100 Whiting Avenue,
Oshawa

CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY

MINUTES NO. 2

AUTHORITY MEETING

Tuesday, March 21, 2023 - 5:00 P.M.

MEETING LOCATION: HYBRID – Virtual through Zoom and/or in person at 100 Whiting Avenue, Oshawa

Authority Members: Elizabeth Roy – Chair
Marilyn Crawford
Bruce Garrod
Ron Hooper
Rick Kerr
Chris Leahy
Tito-Dante Marimpietri
Ian McDougall
Rhonda Mulcahy
John Neal
Steve Yamada

Authority Staff: C. Darling, Chief Administrative Officer
R. Catulli, Director, Corporate Services
J. Davidson, Director, Watershed Planning & Natural Heritage
L. Hastings, Communications Specialist
D. Hope, Conservation Lands & Education Manager
C. Jones, Director, Planning & Regulation
P. Sisson, Director, Engineering & Field Operations & Education
L.Vaja, Executive Assistant/Health & Safety Administrator/ Recording Secretary
R. Wilmot, Information Management & Technology Manager

Absent: Bob Chapman – Vice Chair
Sami Elhajjeh
David Pickles
Corinna Trill

Others:

The Chair called the meeting to order at 5:01 p.m.

LAND ACKNOWLEDGEMENT STATEMENT

Chair Roy recited the Land Acknowledgement Statement.

DECLARATIONS of interest by members on any matters herein contained - *None*

ADOPTION OF MINUTES (Agenda pg. 1)

Res. #22 Moved by S. Yamada
Seconded by J. Neal

THAT the Authority minutes of January 17, 2023, be adopted as circulated.
CARRIED

I. McDougall joined virtually at 5:01 p.m.

R. Kerr arrived at 5:02 p.m.

PRESENTATIONS - *None*

CORRESPONDENCE – *None*

M. Crawford joined virtually at 5:04 p.m.

DIRECTOR, PLANNING & REGULATION

(1) Staff Report #5818-23 (Agenda pg. 7)

Re: Permits Issued for Development, Interference with Wetlands, and Alteration to Shorelines and Watercourses – January 1 to February 28, 2023

Res. #23 Moved by S. Yamada
Seconded by R. Hooper

THAT Staff Report #5818-23 be received for information.
CARRIED

DIRECTOR, WATERSHED PLANNING & NATURAL HERITAGE

(1) Staff Report #5821-23 (Agenda pg. 9)
Re: Final Provincial Updates to the Ontario Wetland Evaluation System

Res. #24 Moved by T.D Marimpietri
Seconded by R. Kerr

THAT Staff Report #5821-23 be received for information.
CARRIED

(2) Staff Report #5822-23 (Agenda pg. 10)
Re: Restoration and Stewardship Program - 2022 in Review

Res. #25 Moved by T.D Marimpietri
Seconded by R. Kerr

THAT Staff Report #5822-23 be received for information.
CARRIED

(3) Staff Report #5823-23 (Agenda pg. 14)
Re: Durham Meadoway – Vision Study

Res. #26 Moved by T.D Marimpietri
Seconded by R. Kerr

THAT Staff Report #5823-23 be received for information.
CARRIED

DIRECTOR, ENGINEERING AND FIELD OPERATIONS

(1) Staff Report #5820-23 (Agenda pg. 16)
Re: Trillium Community Building Fund – Capital Stream Grant
Stephen's Gulch, Enniskillen, and Long Sault Conservation Areas

Res. #27 Moved by S. Yamada
Seconded by R. Mulcahy

THAT Staff Report 5820-23 be received for information.
CARRIED

P. Sisson made a verbal presentation to the Board – Purple Woods Maple Syrup Festival update.

T.D Marimpietri commended and congratulated staff for their contribution to the return of the festival, especially after the pandemic. The website and online ticket sales with all the related festival information looks great and is working well. Acknowledged that the comments have been positive with visitors that have attended the festival.

DIRECTOR, CORPORATE SERVICES – None

CHIEF ADMINISTRATIVE OFFICER

(1) Staff Report #5819-23 (Agenda pg. 35)
Re: Administrative and Meeting Procedural By-Law

Res. #28 Moved by R. Mulcahy
Seconded by M. Crawford

THAT the Board of Directors of the Central Lake Ontario Conservation Authority approves the attached amended Administrative and Meeting Procedural By-Law.
CARRIED

CONFIDENTIAL MATTERS – *None*

NEW AND UNFINISHED BUSINESS – *None*

ADJOURNMENT

Res. #29 Moved by S. Yamada
 Seconded by R. Kerr

THAT the meeting adjourns.
CARRIED


The meeting adjourned at 5:21 p.m.

ELIZABETH ROY, CHAIR

CHRIS DARLING, CHIEF ADMINISTRATIVE OFFICER

DRAFT

DATE: April 18, 2023
FILE: RPRG3974
S.R.: 5824-23
TO: Chair and Members, CLOCA Board of Directors
FROM: Chris Jones, Director, Planning & Regulation
SUBJECT: **Permits Issued for Development, Interference with Wetlands and Alteration to Shorelines and Watercourses – March 1 to 31, 2023**

APPROVED BY C.A.O. 

Attached are Development, Interference with Wetlands and Alterations to Shorelines and Watercourses applications, pursuant to Ontario Regulation 42/06, as approved by staff and presented for the members' information.

RECOMMENDATION:

THAT Staff Report #5824-23 be received for information.

Attach.

PERMITS TO BE RATIFIED, FROM 1 MARCH 2023 TO 31 MARCH 2023

Row	Municipality	Owner Applicant	Street Lot Con	Permit No	Description
1	AJAX	CITY OF PICKERING / TELECON DESIGN INC.	AUDLEY ROAD / LOT 03 / CON 05	P23-043-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT
2	AJAX	ENBRIDGE GAS INC.	2837 AUDLEY ROAD NORTH / LOT 02 / CON 04	A23-048-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE INSTALLATION OF A GAS SERVICE
3	AJAX	PROPERTY OWNER / R.J. BURNSIDE & ASSOCIATES LTD.	639 KINGSTON ROAD / LOT 02 / CON 01	A23-053-GBAW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH GRADING RELATED TO ROAD CONSTRUCTION AND CONSTRUCTION OF A NEW WATERCOURSE CROSSING AND STORMWATER MANAGEMENT OUTLET CHANNEL
4	CLARINGTON DARLINGTON	OPG /WSP	1 HOLT ROAD SOUTH / LOT 18-20 / CON BFC	C23-041-G	DEVELOPMENT ACTIVITIES ASSOCIATED WITH RE: VEGETATION CLEARING & GRUBBING FOR SPOILS ACCESS ROAD
5	CLARINGTON DARLINGTON	PROPERTY OWNER	5060 BOWMANVILLE AVENUE / LOT 15 / CON 05	C23-044-GBFH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH CONSTRUCTION OF 2 CAR GARAGE WITH STORAGE ABOVE AND AN ENCLOSED PORCH
6	CLARINGTON DARLINGTON	ST. MARY'S CEMENT CANADA	ST. MARY'S CEMENT / LOT 14 / CON BFC	C23-035-HS	DEVELOPMENT ACTIVITIES ASSOCIATED WITH EMERGENCY WORKS ON SHORELINE, INCLUDING DREDGING OF DOCKING AREA AND REPAIRS TO EXISTING ARMOURED SHORELINE WALL
7	CLARINGTON DARLINGTON	PROPERTY OWNER	2739 MAPLE GROVE ROAD / LOT 18 / CON 02	C23-052-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE CLEARING OF TREES AND THE CONSTRUCTION OF A DRIVEWAY AND CULVERT
8	OSHAWA	STAFFORD HOMES LTD.	739 CONLIN ROAD EAST / LOT 07 / CON 04	O23-039-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH RE: DEVELOPMENT OF NEW RESIDENTIAL COMMUNITY, EARTHWORKS, SITE SERVICING, AND THE CONSTRUCTION OF RESIDENTIAL DWELLINGS
9	OSHAWA	PROPERTY OWNER / BRICKHAUS RESIDENTIAL DESIGN	2660 RITSON ROAD NORTH / LOT 09 / CON 05	O23-037-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH CONSTRUCTION OF NEW 2-STOREY SINGLE FAMILY DWELLING AND NEW SEPTIC SYSTEM
10	OSHAWA	NDA INVESTMENTS LTD. / D.G. BIDDLE & ASSOCIATES	720 ELDERBERRY DRIVE / LOT 06 / CON 03	O23-034-BH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH NEW DAYCARE PLAY AREA
11	OSHAWA	MINISTRY OF TRANSPORTATION / MGI GROUP	767 BLOOR STREET EAST / LOT 04 / CON BFC	O23-051-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DEMOLITION OF EXISTING RESIDENTIAL BUILDING AND DETACHED GARAGE WITH ATTACHED SHED
12	SCUGOG	PROPERTY OWNER/ ANDELWOOD HOMES	260 TOWNLINE ROAD WEST / LOT 03 / CON 01	S23-050-GBW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DEMOLISHING THE EXISTING HOUSE AND BUILDING NEW SINGLE FAMILY DWELLING AS WELL AS SLOPE PROTECTION WORKS (PLANTING)
13	SCUGOG	PROPERTY OWNER	90 CHALK LAKE ROAD / LOT 01 / CON 02	W23-046-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH CONSTRUCTION OF A RESIDENCE
14	WHITBY	PROPERTY OWNER / TOWN OF WHITBY	3555 COCHRANE STREET / LOT 28 / CON 03	W23-036-HS	DEVELOPMENT ACTIVITIES ASSOCIATED WITH CONSTRUCTION OF BIOENGINEERED EROSION PROTECTION ALONG LYNDE CREEK AT THE TOE OF THE COCHRANE STREET EMBANKMENT
15	WHITBY	GREENWORLD INVESTMENTS INC. / OGS LANDSCAPE	5515 THICKSON ROAD NORTH / LOT 19 & 20 / CON 05	W23-045-G	RESOLUTION OF VIOLATION RE: UNAUTHORIZED INTERFERENCE WITH SLOPE NEAR WATERCOURSE
16	WHITBY	PROPERTY OWNER / CCR RENOVATIONS	18 PRICE STREET / LOT 24 / CON 06	W23-049-BH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH ACCESS IMPROVEMENTS
17	WHITBY	ENBRIDGE GAS INC.	COUNTRY LANE / LOT 31 / CON 04	W23-033-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE INSTALLATION OF A GAS MAIN
18	WHITBY	MENKES DEVELOPMENTS LTD.	1650 CHAMPLAIN AVENUE / LOT 19 / CON 01	W23-042-GBFHW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH SITE ALTERATION GRADING WORKS INCLUDING TOPSOIL STRIPPING, FLOODPLAIN CUT FILL, STORMWATER POND & ROUGH GRADING/SUPPORT OF NEW INDUSTRIAL BUILDING DEVELOPMENT
19	WHITBY	ENBRIDGE GAS INC.	519 DUNDAS STREET EAST / LOT 25 / CON 02	W23-038-GBH	DEVELOPMENT ACTIVITIES ASSOCIATED WITH INSTALLING A PROPOSED GAS MAIN
20	WHITBY	DILLON CONSULTING LIMITED / TRANSCANADA PIPELINES LIMITED / TC ENERGY	TOWN OF WHITBY / LOT 22, 23, 24 / CON 06 & 07	W23-040-H	DEVELOPMENT ACTIVITIES ASSOCIATED WITH RE :VEGETATION CLEARING/BRUSHING ALONG THE EXISTING RIGHT OF WAY (ROW)

REPORT

CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY

DATE: April 18, 2023
FILE: LALS9
S.R.: 5826-23
TO: Chair and Members, CLOCA Board of Directors
FROM: Jamie Davidson, Director, Watershed Planning & Natural Heritage

APPROVED BY C.A.O. 

SUBJECT: CLOCA Conservation Areas Meet Pan-Canadian Standards For Protected Areas And Are Now Included in the Canadian Protected and Conserved Areas Database (CPCAD)

Overview

In the latter half of 2022, CLOCA worked closely with external organizations and ministries to assess the eligibility of all CLOCA conservation area landholdings against the Pan-Canadian Standards for Protected Areas. CLOCA has recently learned that 90% of its 2,743 hectares of conservation area lands meet Protected Areas criteria and have now been successfully incorporated into the national Canadian Protected and Conservation Areas Database (CPCAD) (Attachment #1). These CLOCA lands now count towards the total percentage of protected and conserved areas in Ontario and Canada and contribute to national efforts to meet internationally agreed to targets for biodiversity conservation.

Background

The Pan-Canadian Standards for Protected Areas follow the International Union for Conservation of Nature (IUCN) standards that countries around the world must adhere to when calculating and reporting on the amount of land that is effectively protected and managed for biodiversity conservation purposes within their borders. The IUCN defines a protected area as follows:

“A clearly defined geographical space, recognized, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values.”

The total amount of eligible protected areas that a country has at any given time is used to gauge its progress towards meeting internationally agreed to targets for conserving global biodiversity. For example, the Government of Canada signed onto Aichi Target 11 at the 2010 Conference of the Parties (COP 10), which set national targets for protected areas at 17% terrestrial and 10% marine by 2020. The international target was just recently updated at COP15 in Montreal in December 2022, with the goal of designating 30% of Earth’s land and ocean area as protected areas by 2030. The Federal Government has now adopted this “30 by 30” goal. In December 2022, Canada and Ontario reported 13.6% and 10.9% of their total land base as “Protected and Other Conserved Areas”.

Ontario Parks (Ministry of Environment, Conservation and Parks) is responsible for overseeing and submitting Protected Areas assessments in Ontario. As outlined in their most recent “State of Ontario’s Protected Areas” report (2021), protected areas are a core component of biodiversity conservation strategies in Ontario and around the world. They serve to permanently protect ecosystems and significant natural and cultural heritage elements within defined regions.

Cont’d

The report also states that effectively managed protected areas help stem the loss of biodiversity and ecosystem services, provide safe habitat for species, maintain ecological processes, and provide spaces for people to connect with nature. Ontario tracks changes in the protected areas system as a measure of Ontario's contribution to national and international biodiversity targets. CLOCA's conservation areas are obviously important contributors to not only local watershed health, but to the maintenance of provincial, national, and international ecosystem biodiversity.

Assessment Process and Outcomes

CLOCA worked closely with Ontario Nature through 2022 to assemble the data and documentation required by the assessment standards. Ontario Nature had previous experience in carrying out protected areas assessments on theirs and other's landholdings, and had funding for staff time to assist interested municipalities and conservation authorities within the Greater Toronto Area to complete these assessments on their greenspace lands. In addition to key land data (i.e., property size, land cover type, mapping, etc.), CLOCA had to establish that it has legal or other effective means in place to achieve the long-term conservation of nature on its landholding. CLOCA pointed to language in provincial legislation and policy (Conservation Authorities Act, Greenbelt Plan, Oak Ridges Moraine Plan, A Place To Grow: Growth Plan, Provincial Policy Statement, etc.) and municipal official plans for legal and policy protections, and CLOCA documentation to showcase the tools we rely on internally to guide our conservation area management programs (i.e., CLOCA's Policy and Procedures Document, Strategic Plan, Watershed Plans and associated Action Plans, and most importantly our Conservation Area Management Plans and Inspection Policies, etc.).

Except for leased agricultural lands, decommissioned landfill areas, and smaller disconnected valleyland parcels that didn't meet the criteria, 2,458.2 hectares, or 90% of our 2,743 hectares of conservation area landholdings were assessed as eligible Protected Areas and added to the national CPCAD database. CLOCA was assured by program managers that this protected areas status would not place any encumbrances on the lands, but federal funding programs could potentially prioritize these lands for funding in the future.

Conclusion

CLOCA works hard to acquire, manage and restore conservation areas as one way to protect high value ecosystem features and services across its jurisdiction. CLOCA also provides important opportunities for the public to interact with these spaces where appropriate. This land ownership and management work is particularly important in the Greater Toronto Area, where watershed and ecosystem health are under tremendous pressure from land use change and the effects of climate change, and where public access to high quality greenspace is at a premium. The designation of most CLOCA conservation area landholdings as Protected Areas under the federal Canadian Protected Areas program reinforces the fact that CLOCA's conservation areas are not only critical regional assets that protect and maintain local watershed and community health, but that they also play an important role in the maintenance of provincial, national, and international ecosystem biodiversity.

RECOMMENDATION:

THAT Staff Report # 5826-23 be received for information.

From: [Bjorgan, Laura \(MECP\)](#)
To: [Jamie Davidson](#)
Cc: jennak@ontarionature.org; [Persaud, Anurani \(MECP\)](#)
Subject: Ontario Protected and Conserved Areas
Date: March 24, 2023 8:44:07 AM
Attachments: [image001.png](#)

[CAUTION]: This message comes from an external organization. DO NOT click links or open attachments unless you recognize the sender. If in doubt contact support@cloca.com or rwilmot@cloca.com

Hello Mr. Davidson,

I am writing to congratulate you on your efforts to contribute to the protection and conservation of greenspace in Ontario in 2022.

Ontario Parks in the Ministry of the Environment, Conservation and Parks is responsible for reviewing and confirming eligibility for protected and conserved areas, and for submitting areas that meet the pan-Canadian standards to the Canadian Protected and Conserved Areas Database (CPCAD).

In 2022, Ontario Nature assessed 12 of your properties using a Decision Support Tool to determine if they meet the pan-Canadian standards for protected areas or “other effective area-based conservation measures” (OECMs, or conserved areas). Your sites were found to meet the pan-Canadian standards and the eligible sites were successfully submitted to and incorporated into CPCAD. Your sites now count towards the total percentage of 10.9% protected and conserved areas in Ontario and Canada. More information on Ontario’s efforts towards land conservation and increasing greenspace can be found in two locations:

- [OntarioParks.com: State of Ontario’s Protected Areas Report page, Protected Area System indicator report](#)
- [Ontario.ca: Ontario’s parks and protected areas page.](#)

We recognize that your properties are an important part of the network of protected and conserved areas in Ontario and would like to extend our sincere thanks to Central Lake Ontario Conservation Authority for their significant contributions to nature conservation in Ontario.

Best regards,
Laura Bjorgan

Laura Bjorgan (she/her) | Manager (A) – Protected Areas Section – Ontario Parks
300 Water St., Peterborough, Ontario, K9J 3C7


P: 705-772-6039 **W:** OntarioParks.com



Ministry of the Environment, Conservation and Parks

Please note: As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats.

DATE: April 18, 2023
FILE: NHLF64
S.R.: 5825-23
TO: Chair and Members, CLOCA Board of Directors
FROM: R. Perry Sisson, Director, Engineering, Field Operations & Education
Louie Jakupi, Senior Water Resource Engineer
SUBJECT: **Lynde Creek Floodplain Mapping – Award of Contract**

APPROVED BY C.A.O. 

Purpose:

The purpose of this report is to request the approval of the Board of Directors for the staff recommendation to retain the services of AECOM for the completion of Lynde Creek Floodplain Mapping.

The Project:

As the frequency and intensity of severe weather events continue to grow, establishing and maintaining accurate floodplain mapping is critical to public safety and to prevent the costs of property damages and business disruptions. Floodplain mapping allows municipalities and conservation authorities to guide development away from flood-prone areas and also supports better emergency management and planning.

In January 2023, the Board received a staff report informing that grant funding had been awarded from the federal Flood Hazard Information and Mapping Program (FHIMP) for completing floodplain mapping of the Lynde Creek watershed. The FHIMP provides 50% of project funding, and the matching funding will be provided through special levy funding. The funding and budget for the project totals \$220,000.

Request for Proposals:

After receiving endorsement for the project and funding, CLOCA staff prepared a Terms of Reference for the project and posted a Request for Proposal through the Bids & Tenders public bidding portal. Eight consultants submitted proposals by the closing date. CLOCA staff evaluated the proposals based on proposed cost, work plan, company and key staff experience and resources, and knowledge of the watershed. Through the evaluation process, AECOM's proposal was selected as the preferred bid. The AECOM team have extensive knowledge of the Lynde Creek watershed through preparing the Lynde Creek Master Drainage Plan Update Study with the Town of Whitby and numerous projects with the Ministry of Transportation for Highway 401 and Highway 407/412 studies of bridges and culverts. The AECOM team consists of experienced staff with the skills necessary to complete the floodplain mapping study. AECOM proposed to complete the project for a fee of \$143,990 plus HST. AECOM has been contacted and are prepared to enter into a contract for the project, pending approval by the Board of Directors.

The project is planned to commence in April 2023 and be completed by March 31st, 2024. During the project, our partner municipalities will be contacted and invited to participate as a technical team through meetings and review of project progress at key stages of the project. The project will also provide an opportunity for public input through a Public Information Session and posting of draft reports and mapping products.

RECOMMENDATION:

THAT the Board of Directors approve the proposal and contracting of AECOM for the completion of the Lynde Creek Floodplain Mapping project.

REPORT

CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY

DATE: April 18, 2023
FILE: ACCA7
S.R.: 5827-23
TO: Chair and Members, CLOCA Board of Directors
FROM: Lisa Hastings, Communications Specialist

APPROVED BY C.A.O. 

SUBJECT: Central Lake Ontario Conservation Authority Watershed Report Card 2023

In an effort to raise awareness of the value of environmental monitoring and communicate the state of watershed health, CLOCA participates in Conservation Ontario's Watershed Report Card Program. CLOCA recently completed a fourth edition of a watershed report card that provides a broader comparison of watershed health for stakeholders across Ontario and a snapshot of environmental conditions in our watershed. To date we have published four report cards: 2023, 2018, 2013 and 2007.

Conservation Ontario helped to facilitate the development of a common report card template. The watershed report cards—produced every five years—summarize a select suite of watershed health indicators by reporting on the current status of surface water quality, groundwater quality, and forest conditions in a consistent manner, making results comparable across Ontario. Objectives include to promote the value of Conservation Authorities as agencies that monitor and report on conditions in Ontario watersheds, as well as, develop programs and projects to protect natural resources; make the watershed report cards easily accessible; and to connect the general public to their watersheds. Through these Report Cards, Conservation Ontario delivers these key messages:

1. Watershed Report Cards reflect environmental changes underway in Ontario's watersheds.
2. Conservation Authorities work with residents and partners to maintain and improve watershed health through actions to protect and conserve Ontario's natural resources.
3. Our health own health and well-being needs healthy watersheds.

Central Lake Ontario Conservation Authority staff are responsible for monitoring watershed conditions throughout our jurisdiction, targeting specific environmental indicators. Quality and quantity of specific attributes associated with surface water, forest conditions and groundwater were assessed, providing a point of reference for current and future comparisons. Our grades in the 2023 Watershed Report Card, indicate what many of Ontario's watersheds are showing, particularly those in southern, more urban areas, that our natural resources are stressed. This was also the finding in our previous Watershed Report Cards. The following highlights the findings of the 2023 Watershed Report Card for the indicators identified above.

Surface Water Quality

Surface water within CLOCA's jurisdiction received grades ranging from B-D with an overall average score of C. Generally, grades show an improvement from the 2018 results in all watersheds with the exception of Black and Harmony Creeks, where there was no change. This improvement is likely due to a larger, more complete dataset rather than on-the-ground changes as well as CLOCA's restoration program that started in 2019. As in 2018, more efforts are needed to reduce bacterial and nutrient inputs through improvements to land management practices. This will improve water quality and support healthy aquatic ecosystems.

Cont'd

Forest Conditions

Grades ranged from C to F with an average grade of D. Bowmanville and Soper Creek watershed continues to be the highest scoring watershed with a C grade due to a higher proportion of rural non-farmland uses and lower proportion of urban land cover. Grade increases seen in several watersheds in 2023 compared to 2018 are due to a change in the methodology used to calculate streamside cover and does not reflect an overall improvement in forest conditions.

Groundwater Quality

Groundwater quality scored a grade of A. Sampling indicated that nitrite concentrations did not exceed the prescribed limit set under the Ontario Drinking Water Standards (ODWS). Chloride concentrations on samples from 2 of the 13 monitoring stations exceeded the ODWS prescribed limit for this parameter. These wells are situated in highly urbanized area where intensive winter salting is a common practice. Note that groundwater quality results only apply to specific location of monitoring wells and do not represent the condition for the entire watershed. Well water samples were only analyzed for chemical quality and no reports on bacteriological quality.

Conclusion

The 2023 Watershed Report Card launch occurred on March 22, 2023, which was World Water Day, in order to leverage their promotion efforts, to feature the Report Cards more widely. The theme for this year's World Water Day was Nature for Water; we wanted to celebrate this resource and bring attention to the value of monitoring and how important it is to protect our lakes, forests, streams and groundwater. Conservation Ontario launched Conservation Authority watershed report cards on Twitter, Facebook, Instagram and in an e-blast. CLOCA shared this information widely on our own social media platforms and email contact lists. Building up to the launch, Conservation Ontario developed a series of Twitter/Facebook infographics to promote the impending launch of the report cards, commencing on Monday, March 19, 2023. Themes included monitoring, drinking water protection, stewardship, report cards, and ecohealth. The common Conservation Authority wide template is an effective method of communicating at a high level the state of watershed conditions across most of Ontario. CLOCA undertakes a separate and more scientific monitoring program to further define the state of resources in our watershed. We anticipate reporting to the Board on our Integrated Watershed Monitoring Program at the May Board meeting.

The CLOCA Watershed Report Card can be found at <https://www.cloca.com/watershed-report-cards>. You can access our report card and find more information about all 36 Watershed Report Cards at www.watershedcheckup.ca. As well, a story map has been developed to show more detailed information about conditions across the province at <https://storymaps.arcgis.com/stories/14a8022345b145e3965b30e96197b134>.

RECOMMENDATION:

THAT Staff Report # 5827-23 be received for information.