

LOWER THAMES VALLEY CONSERVATION AUTHORITY



BOARD OF DIRECTORS
MEETING
AGENDA

Administration Building
Chatham, Ontario
Thursday, August 27, 2015
2:00 P.M.

1. **Adoption of Agenda**
2. **Disclosure of Pecuniary Interest & General Nature Thereof**
3. **Minutes of the Last Meeting (Previously circulated)**
4. **Business Arising From the Minutes**

(a) Building Renovation - Verbal Update

5. **Committee Meetings**

- (a) Board of Directors Minutes, June 25, 2015
- (b) Personnel & Finance / Executive Committee Minutes, June 25, 2015
- (c) Ska-Nah-Doht Committee Minutes, July 2, 2015
- (d) Personnel & Finance / Executive Committee Minutes, August 20, 2015

RECOMMENDATION: That the committee meeting agenda items 6 (a) through to 6 (d) be received for information.

6. **Correspondence**

- (a) MNRF review of the Conservation Authorities Act, meeting the needs of Ontarians in a modern context , discussion paper
- (b) Phosphorus Reduction Target
- (c) Lake Erie's Toxic Algae Bloom is Back and It's Spreading, The Weather Network News

RECOMMENDATION: That correspondence items 6 (a) through to 6 (c) be received for information.

7. Business for Information

- (a) Water Related Issues, Initiatives & Activities – Staff Report
 - i. Flood Events – Power Point Presentation
 - ii. Watershed planning
 - a. Thames Clearwater Revival
 - b. Elgin County Shoreline Management Plan
 - c. New website on Harmful Algal Blooms and Hypoxia
- (b) Biannual Lake St. Clair Conference, Update – Staff Report
- (c) Authority Regulations
 - i. Development of an Agricultural Guide to Conservation Authority Permits in the Greenbelt and Beyond – Staff Report
 - ii. Applications for Permission under Ontario Regulation 152/06 (CA Act) – Staff Report
- (d) Conservation Services – Staff Report
 - i. Grants
 - ii. Prairie
 - iii. Wetlands
 - iv. Greenhouse
 - v. Natural Heritage Implementation Strategy
 - vi. OMAFRA Research Project Update, McLean Conservation Area
 - vii. Agricultural Specialist – Stewardship Projects
 - viii. Agricultural Specialist – Community Outreach and Education
 - ix. Species At Risk job posting
- (e) Conservation Areas – Staff Report
 - i. 2015 June 1 – July 31 Visitation / Camping Stats
 - ii. Administration Building – Office Renovation
 - iii. Stewardship Rangers – Big ‘O’ and Rowsom CA’s
 - iv. Sharon Creek, Tree Removal / Swing
 - v. Sharon Creek, Dog Bite Incident
- (f) Community Relations – Staff Report
- (g) Conservation Authority Education – Staff Report
- (h) Wheatley Two Creeks Association – Report
- (i) GM’s Report

RECOMMENDATION: That agenda items 7 (a) through to 7 (i) be received for information.

8. Business for Approval

- (a) MNRF review of the Conservation Authorities Act, meeting the needs of Ontarians in a modern context , discussion paper – Staff Report

RECOMMENDATION: That the LTVCA Board support the need for the Province of Ontario to amend Section 28 of the Conservation Authorities Act to remove ambiguities concerning wetlands and to enable the issuance of “stop work orders” to improve the efficiency and effectiveness of the regulation; and that the province restore a funding mechanism which addresses the current inequities in CA financial capacity; and that the provincial government consider the establishment of an appropriate accountability framework at the provincial level which recognizes the multi-ministry nature of the Authorities’ program and provides adequate legislative, policy and financial support for this essential program; and that these points be circulated to the member municipalities for their consideration and support.

(b) 2016 Budget Outlook

RECOMMENDATION: That the preliminary budget for 2016 support the creation of 3 new positions (water management; ecology/biology; conservation areas manager. It is further recommended that these positions be financed by a targeted levy increase which would seek to move all municipalities closer to their ratio of the Current Value Assessment of each within the watershed. At the present time, Chatham-Kent is contributing an additional \$120,000 annually in direct benefiting levy for flood control (Indian and McGregor Creek system operations); plus \$308,000 toward the Greening Partnership. It is proposed that an equivalent “greening partnership” levy be collected from all municipalities except C-K, which would yield an additional \$218,859 annually. The attached tables and graphs illustrate this imbalance and the impact of implementing a supplementary levy on these nine municipalities.

LOWER THAMES VALLEY CONSERVATION AUTHORITY



**BOARD OF DIRECTORS
MEETING MINUTES**

A meeting of the Conservation Authority's Board of Directors was held at the Longwoods Road Conservation Area beginning at 2:00 P.M. on Thursday, June 25, 2015. The following directors were in attendance:- L. McKinlay, H. MacDonald, D. McKillop, M. Smibert, S. Caveney, J. Kavelaars, R. Doane and G. Bogart. T. Thompson, L. LeClair and J. Wolfe sent regrets.

1. Adoption of Agenda

1. R. Doane – L. McKinlay

Moved that the agenda be adopted.

CARRIED

2. Disclosure of Pecuniary Interest and General Nature Thereof

Dan McKillop noted a conflict of interest regarding Items 4 & 5.

3. Minutes of the Last Meeting (Previously Circulated)

2. L. McKinlay – D. McKillop

Moved that the minutes of the meeting of April 23, 2015 be approved as circulated.

CARRIED

4. Business Arising From the Minutes

(a) Administration Building Parking Lot Draft Plan

3. M. Smibert – G. Bogart

Moved that the report be received for information

CARRIED

5. Business for Approval

(a) Contract for Parking Lot Design

4. M. Smibert – G. Bogart

Moved that Dillon Consulting be retained in accordance with the proposal to undertake the required design, approval, tendering and contract management for the proposed parking facility at 112 Thames Street, Chatham.

CARRIED

6. **Committee Meetings**

- (a) Joint Health & Safety Committee Minutes, April 27, 2015
- (b) Joint Health & Safety Committee Minutes, May 6, 2015

5. G. Bogart – S. Caveney

Moved that agenda items 6 (a) and 6 (b) be received for information.

CARRIED

7. **Correspondence**

None reported.

8. **Business for Information**

- (a) Water Related Issues, Initiatives & Activities
 - i. Flood event
 - ii. Low Water Monitoring
 - iii. Watershed monitoring
 - a. Benthic Sampling
 - iv. Watershed planning
 - a. Phosphorus Reduction - Environment Canada meeting notes
 - b. Thames Clearwater Revival
 - v. Communications
 - a. Flood Presentation to the Rotary Club, Chatham-Kent
- (b) Biannual Lake St. Clair Conference
- (c) Authority Regulations
 - a. Applications for Permission under Ontario Regulation 152/06 (CA Act)
- (d) Conservation Services
 - a. Grants
 - b. Prairie
 - c. Wetlands
 - d. Greenhouse
 - e. Natural Heritage Implementation Strategy
 - f. New Agricultural Specialist
 - g. Weather Station Installation at McLean property

- (e) Conservation Areas
- (f) Community Relations
- (g) Conservation Authority Education
- (h) Summer Student Positions
- (i) Wheatley Two Creeks Association
- (j) GM's Report

6. S. Caveney – M. Smibert

Moved that agenda items 8 (a) through to 8 (j) be received for information.

CARRIED

9. Business for Approval

- (a) CM Wilson Conservation Area, Barn Facilities

7. R. Doane – D. McKillop

Moved that staff continue to work with the Chatham-Kent Fire and Building Departments in an effort to come to an acceptable resolution of this matter.

CARRIED

- (b) Section 28 Regulations, additions to Policy Section

- (i) Lake Erie Bluff, Additional Allowance

8. M. Smibert – D. McKillop

Moved that staff be permitted to approve development proposed within the 15 metre additional allowance of a shoreline, subject to the applicant providing an OLS survey of the lot delineating the "Critically Regulated Area"; and
Further, that applications for development within the Critically Regulated Area continue to go before the Authority's Executive (Hearing) Committee for decision with all necessary studies/engineering reports in support of the application being received 30 days prior to the hearing date, it being noted that if new studies are introduced at the time of the hearing, the hearing will be adjourned to provide staff time to review the material; and
That these requirements be incorporated into the updated Policy and Procedures for Ontario Regulation 152/06.

CARRIED

(ii) Minor Changes to Applications on Existing Executive Hearing Committee Decisions

Jason Wintermute provided a brief description of an issue that recently arose when a proponent presented staff with a minor change to the location of the footprint of their proposed residential dwelling, which had been approved by the Authority's Executive Hearing Committee within the Critically Regulated Area. After receiving the Authority's approval for the development, the proponent learned that the setback from the front lot line would have to increase by one foot, with the result that the structure would have to be totally redesigned or shifted 0.3 metres (1 foot) closer to the hazard. Authority staff saw no issue with the proposal as it was very minor in nature, but because this application had been approved at the Executive level, staff could not approve the minor change. As no meeting of the Personnel & Finance/Executive Committee was planned, it was felt that calling a meeting of the Committee for such a minor item was inefficient.

9. S. Caveney – D. McKillop

Moved that staff be authorized to seek approval by email poll for minor amendments to Executive-approved applications if no Personnel & Finance/Executive Committee meeting is scheduled within a reasonable time period.

CARRIED

(c) NDMP National Disaster Mitigation Plan

10. H. MacDonald – D. McKillop

Moved that the Board recognizes a unique funding opportunity for updating critical floodplain mapping and authorizes staff to discuss options with the member municipalities to obtain project-specific municipal funding within the 2016 budget.

CARRIED

11. H. MacDonald – S. Caveney

Moved that the meeting be adjourned.

CARRIED

John Kavelaars
Chair



Don Pearson
General Manager/Secretary-Treasurer

LOWER THAMES VALLEY CONSERVATION AUTHORITY



PERSONNEL & FINANCE / EXECUTIVE COMMITTEE

MINUTES

THURSDAY, JUNE 25, 2015

A meeting of the Conservation Authority's Personnel & Finance/Executive Committee was held at the Longwoods Road Conservation Area at 3:50 P.M. on Thursday, June 25, 2015. A roll call was held with the following committee members present: J. Kavelaars, L. McKinlay, H. MacDonald, S. Caveney & R. Doane.

Also present were the following staff members: Don Pearson, Jason Wintermute & Valerie Towsley.

Chair John Kavelaars called the meeting of the Personnel & Finance/Executive Committee to order at 3:50 PM. He requested the members to disclose any conflicts of interest. None were declared.

1. CA Application No. 15-2015 – Panjer Property, Erie Shore Drive – minor revision to approved application

Jason Wintermute provided a brief description of an issue that recently arose when a proponent presented staff with a minor change to the location of the footprint of their proposed residential dwelling within the Critically Regulated Area, which had been approved by the Authority's Executive Hearing Committee. After receiving the Authority's approval for the development, the proponent learned that the setback from the front lot line would have to increase by one foot, with the result that the structure would have to be totally redesigned or shifted 0.3 metres (1 foot) closer to the hazard. Authority staff saw no issue with the proposal as it was very minor in nature, but because this application had been approved at the Executive level, staff could not approve the minor change.

1. L. McKinlay – S. Caveney

Moved that the minor amendment to the noted application be approved.

CARRIED

2. Other Business

There being none.

2. L. McKinlay – H. MacDonald

Moved that the meeting be adjourned.

CARRIED

John Kavelaars
Chair



Don Pearson
General Manager/Secretary-Treasurer



**SKA-NAH-DOHT ADVISORY COMMITTEE
MEETING MINUTES**

A meeting of the Ska-Nah-Doht Advisory Committee was held at the Resource Centre, Longwoods Road Conservation Area on Thursday, July 2, 2015 at 6:00 p.m. Present were: R. Doane, G. Bogart, D. McKillop, D. Fairbairn, D. Fallon and D. Pearson. Also present were: K. Mattila, B. Carey and A. Vriends.

I Minutes of the Last Meeting (Previously Circulated)

12. G. Bogart - D. McKillop

Moved that the minutes of the meeting of April 16, 2015 be approved as circulated.

CARRIED

II Business Arising From the Minutes

BA #1 - School Programs

The teacher "action" this spring did not affect the village education bookings. School Boards continued to offer financial support for field trips through a special Outdoor Education Fund. The Education Subcommittee will meet before the next meeting in September to review school stats and develop a 2015-16 strategy.

13. R. Doane – G. Bogart

Moved that the committee receive the report for information.

CARRIED

BA #2 - Employment Programs

Received funding for 2 summer student positions:

1) **Young Canada Works in Heritage (YCW) - Museum Design Assistant** - 10 weeks/35 hr. week. Natalie Barrett, a Fanshawe College Graphic Arts student will work on updating teacher resources and make them available in print and on social media, specifically the website.

2) **Canada Summer Jobs (CSJ) - Community Activities Co-ordinator** - 8 weeks /30 hr. week. Nicole Boere, an environmental student will be going to community events to promote upcoming events for Ska-Nah-Doht as well as highlighting features of all the LTVCA parks. They will also assist in a new summer event, Night Hikes and Legends offered every Tuesday from 7:00 to 9:00 p.m. during July and August.

14. D. Fallon - G. Bogart

Moved that the committee receive the report for information.

CARRIED

III Unfinished Business

UB #1 - Ska-Nah-Doht Repairs

Elm bark has been ordered from John Runions Hardwoods (Maxville, ON) and will be delivered this summer. Cost is approximately \$10,000 plus tax and shipping, to be paid over two years.

Austin Brothers will have 50 cedar poles ready for pickup in August.

15. D. McKillop - R. Doane

Moved that the committee recommends to the LTVCA Board that 50 palisade poles be purchased for 2015 projects from Austin Brothers Hardwoods. Money to come from the Ska-Nah-Doht Fund.

CARRIED

UB #2 - Ska-Nah-Doht Fund

As of May 8, 2015 the fund is at \$11,357.90.

The Ska-Nah-Doht Logo pins have started to sell quickly after the price was dropped from \$5.00 to \$2.00. Staff will have the number of pins left in inventory for the next meeting to determine the cost recovery. This will inform any decision to reorder the pins.

16. G. Bogart - D. Fallon

Moved that the committee receive the report for information.

CARRIED

UB #3 - Community Museum Operation Grant (CMOG) 2014-15

The CMOG application was submitted before the June 30 deadline. There were only 3 extra pieces of information that the grant required: temperature/humidity - a building inspection - Curators job description.

17. D. McKillop - R. Doane

Moved that the committee receive the report for information.

CARRIED

UB #4 - Review 3 Year Strategic Plan 2014-2016

Committee reviewed the 3 year plan and updated as required. There has been good progress toward fulfilling the objectives of the plan by 2016, but there is still work to do.

UB #5 - Report from Subcommittees

None

IV New Business

NB #1 - Heritage Build Project

A two year project to begin in 2016 to build a new longhouse, re-bark the centre longhouse, work on a new palisade entrance and an accessible trail from the cabins to the village. Manpower would consist of one supervisor and 3 staff for 32 weeks.

Staff worked on an application to the Canada150 Infrastructure Programme for \$70,000. The programme asked for 50% to 66% in matched funding from community partners. The \$158,019 budget is broken down: GreenLane - \$20,000, the LTVCFoundation - \$30,000, Ska-Nah-Doht Fund- \$10,000 and LTVCA - \$15,019 plus in-kind. GreenLane has offered the \$20,000 requested over the next 2 years. And LTVCF has offered \$30,000 if successful in the Canada150 application.

There was a short 3 week deadline for the Canada150 application. It is unfortunate that the deadline was not met. Staff is researching alternate funding to match these funds and there is a possibility the Canada150 Infrastructure Programme will be re-opened.

The Heritage Build should be able to begin as scheduled in 2016.

18. G. Bogart - D. Fallon

Moved that the committee receive the report for information.

CARRIED

NB #2 - Next Events

1. Night Hikes and Legends – Tuesdays for July and August, 7:00 to 9:00 pm
2. Artifact Day - Sunday, July 19, 1 - 4:00 pm
3. Volunteer Picnic - Wednesday, July 22 – from 6:00 pm on...

19. R. Doane - G. Bogart

Moved that the committee receive the report for information.

CARRIED

NB #3 - Next Meeting Dates

Thursday, September 17, 2:00 p.m. to 4:00 p.m.
Possible tour of Crawford Lake

Thursday, November 26, 2:00 p.m. to 4:00 p.m.

20. D. McKillop - D. Fallon

Moved that the meeting be adjourned.

CARRIED

Don Fairbairn
Chair

LOWER THAMES VALLEY CONSERVATION AUTHORITY



PERSONNEL & FINANCE / EXECUTIVE COMMITTEE

MINUTES

THURSDAY, AUGUST 20, 2015

A meeting of the Conservation Authority's Personnel & Finance/Executive Committee was held on Thursday, August 20, 2015 at the Authority's Administration Building at 100 Thames Street, Chatham, Ontario at the hour of 10:00 AM. A roll call was held with the following committee members present: J. Kavelaars, H. MacDonald, S. Caveney & R. Doane.

Also present were the following staff members: Don Pearson, Todd Casier & Valerie Towsley.

Chair John Kavelaars called the meeting of the Personnel & Finance/Executive Committee to order at 10:00 AM. He requested the members to disclose any conflicts of interest. None were declared.

1. Port Glasgow Yacht Club Application – 60 Month Permit Approval

Staff provided a brief description of the dock replacement proposal from the Port Glasgow Yacht Clubs to the committee. The work is non-intrusive to the waterbody but it was felt that a longer timeline was needed for the not-for-profit group to raise funding for the multi-year dock replacements.

1. R. Doane – S. Caveney

Moved that the application from the PGYC be approved as submitted to this office; and that the time-line for completion of the work is for a 60 month time period from the date of approval on the application.

CARRIED

2. Watterworth, Drainage Petitions & File Update

Staff provided the committee with an update on the Watterworth court file progress to date and the three petitions for tile drainage outlets that were submitted to the Municipality of West Elgin by the proponent.

2. H. MacDonald – S. Caveney

Moved that the report be received for information.

CARRIED

3. New Bank Account – CIBC Banking Services Contract

Staff provided the P&F/EC with a report on the potential for a joint banking and loan offsetting opportunity with the Chatham-Kent Lambton Administrators Group (CKLAG). Members of the banking group include Chatham-Kent, City of Sarnia, Lambton County, Bluewater Health, C-K Health Alliance, The Separate and Public School Boards, Lambton College and a number of smaller public sector organizations. Joining with this group would give the Authority the ability of offset (lend and borrow funds, risk free between participants, at a low interest rate spread) and the cost of lower bank fees.

3. H. MacDonald – R. Doane

Moved that the enrolment in the banking and loan offset agreement with CIBC, along with other members of the Chatham-Kent Lambton Administrators Group (CKLAG), for the period ending October 31, 2015, plus the renewal period of 5 years with an option for an additional 5 years upon satisfactory performance, be recommended by the Personnel & Finance/Executive Committee to the full Board of Directors for approval.

CARRIED

4. Budget

Don Pearson provided the P&F/EC with an update on the current budget outlook and deficiencies in funding and capacity moving into 2016.

4. S. Caveney – H. MacDonald

Moved that the report be presented to the full Board of Directors for consideration.

CARRIED

5. Expenditure vs Budget to June 30/15

Todd Casier, Financial Services Specialist provided a verbal presentation to the Personnel & Finance/Executive Committee on the current expenditures and the 2015 budget from January 1st through to June 30th.

5. H. MacDonald – R. Doane

Moved that the report be received for information.

CARRIED

6. S. Caveney – R. Doane

Moved that the Personnel & Finance/Executive Committee meet 'in camera'.

CARRIED

7. R. Doane – H. MacDonald

Moved that the Personnel & Finance/Executive Committee move out of the 'in camera' session.

CARRIED

6. Personnel

Don Pearson provided a report to the Personnel & Finance/Executive Committee on a personnel related matter.

8. H. MacDonald – R. Doane

Moved that the recommendation regarding the Administration positions be accepted as presented.

CARRIED

7. Other Business


There being none.

9. S. Caveney

Moved that the meeting be adjourned.

CARRIED

John Kavelaars
Chair



Don Pearson
General Manager/Secretary-Treasurer

Re: Discussion Papers on CA's

MNRF is seeking to engage ministries, municipalities, Aboriginal communities, conservation authorities, stakeholders and the public in a review of the Conservation Authorities Act to ensure that the Act is meeting the needs of Ontarians in a modern context. A link to the discussion paper is provided below and a copy of the report is attached separately to the agenda package. Refer to the attached Discussion Paper, Conservation Authorities Act.

http://apps.mnr.gov.on.ca/public/files/er/Discussion_Paper_2015.pdf

Re: The United States and Canada Release Draft Phosphorus Load Reduction Targets to Combat Lake Erie Algae Blooms

To combat the growing threat of toxic and nuisance algae development in Lake Erie, the United States and Canada have committed, through the 2012 Great Lakes Water Quality Agreement, to develop revised binational phosphorus load reduction targets for Lake Erie by February, 2016.

In response to this commitment, in 2013, federal agencies, state and provincial governments, municipal and local governments, and many other partners convened a binational subcommittee to review the interim phosphorus targets for Lake Erie contained within the Agreement, and recommend new targets for Lake Erie.

The following fact sheet outlines the subcommittee's recommendations:

- [Recommended Binational Phosphorus Targets to Combat Lake Erie Algal Blooms](#)

The subcommittee's recommendations are based on information contained in the following technical report:

- [Recommended Phosphorus Loading Targets for Lake Erie. Annex 4 Objectives and Targets Development Task Team Final Report to the Nutrients Annex Subcommittee](#)

Canada and the United States are consulting on the recommended phosphorus load reduction targets for Lake Erie. For further information, please visit <http://binational.net/>.

Stay Informed!

We appreciate and value your interest in the progress of Environment Canada's Great Lakes programs. If you wish to update any of your contact information, or to be added or removed from this distribution list, please send an email to greatlakes-grandslacs@ec.gc.ca with the following:

- Your name, company or organization and mailing address
- Your preference to receive documents in electronic or print format
- Your email address
- Anything else you would like to tell us, or ask about the Great Lakes!

As always, your details will be treated as privileged information and will only be used to distribute our Great Lakes information to you – our stakeholders. These distribution lists are never shared outside of Environment Canada.

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Introduction

Algae occur naturally in freshwater systems. They are essential to the aquatic food web and healthy ecosystems. However, too much algae can lead to the development of algal blooms, which can be harmful to human health and the environment. Since the 1990s, Lake Erie has been experiencing increasing algal growth, resulting in increased impairment of water quality, as well as increased impairment of the use and enjoyment of the tremendous natural resource that is Lake Erie.

To combat this growing threat, the Governments of Canada and the United States are committed to working with others to manage phosphorus concentrations and loadings in Lake Erie as a means of reducing algal growth. This commitment is formalized in the 2012 Great Lakes Water Quality Agreement, which stipulates completion of revised binational phosphorus reduction targets for Lake Erie by February 2016. To learn more about the Agreement, visit binational.net.

Working in collaboration, federal agencies, state and provincial governments, municipal and local governments, and many other partners convened a GLWQA Nutrients Annex Subcommittee in 2013 to review the interim phosphorus targets for Lake Erie, last revised in 1983, and recommend revisions to those targets. Subject matter experts supported this effort. Their report can be found at binational.net.

This factsheet summarizes the Subcommittee's recommendations. You can provide feedback to their recommendations at binational.net.

Proposed Binational Phosphorus Load Reduction Targets		
Lake Ecosystem Objectives <i>Great Lakes Water Quality Agreement Annex 4, Section B</i>	Western Basin of Lake Erie	Central Basin of Lake Erie
Minimize the extent of hypoxic zones in the Waters of the Great Lakes associated with excessive phosphorus loading, with particular emphasis on Lake Erie	40 percent reduction in total phosphorus entering the Western Basin and Central Basin of Lake Erie - from the United States and from Canada - to achieve 6000 metric ton Central Basin load	
Maintain algal species consistent with healthy aquatic ecosystems in the nearshore Waters of the Great Lakes	40 percent reduction in spring total and soluble reactive phosphorus loads from the following watersheds where localized algae is a problem: Thames River - Canada Maumee River - US River Raisin - US Portage River - US Toussaint Creek - US Leamington Tributaries - Canada	Sandusky River - US Huron River, OH - US
Maintain cyanobacteria biomass at levels that do not produce concentrations of toxins that pose a threat to human or ecosystem health in the Waters of the Great Lakes	40 percent reduction in spring total and soluble reactive phosphorus loads from the Maumee River (U.S.)	N/A

RECOMMENDED BINATIONAL PHOSPHORUS TARGETS TO COMBAT LAKE ERIE ALGAE BLOOMS

What is the Problem?

Toxic and nuisance algal bloom occurrences in Lake Erie have increased over the past decade. The blooms threaten drinking water quality, increase costs associated with treatment needs, and occasionally force closures of treatment plants. They clog industrial water intake systems, adversely impact commercial and recreational fishing activities and other recreational pursuits, and degrade fish and wildlife habitat and populations.

Excessive algal blooms in the 1960s and 1970s were a major driver for the signing of the first Agreement in 1972. In that first Agreement, the Governments of Canada and the U.S. agreed to reduce phosphorus loads to Lake Erie by more than 50 percent (from 29,000 to 14,600 metric tons per year).

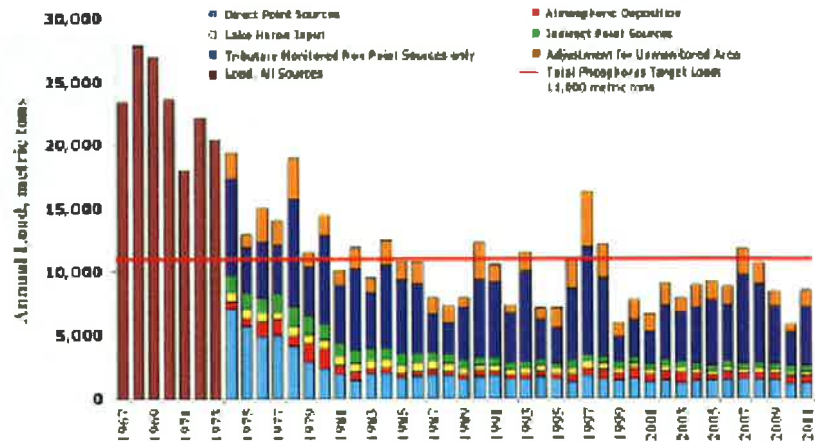
In the 1978 Agreement, the two countries agreed to a further reduction of phosphorus loads to Lake Erie to 11,000 metric tons per year. Regulation of phosphorus concentrations in detergents, investing in sewage treatment, and developing and implementing best management practices on agriculture lands successfully achieve those targets. With the achievement of phosphorus load targets, algal bloom development in Lake Erie decreased significantly throughout the 1980s. However, in the 1990s, despite ongoing efforts to limit phosphorus discharges to Lake Erie, toxic and nuisance algal blooms began increasing.

Three key issues need to be addressed: algal toxins, the size of the low-oxygen (hypoxic) area that is created when algae die and decompose, and the presence of *Cladophora*.

In 2011, concentrations of the algal toxin microcystin in the open waters of the Western Basin of Lake Erie were 50 times higher than the World Health Organization limit for safe body contact, and 1,200 times higher than the limit for safe drinking water. In August 2014, algal toxins forced closure of the Toledo, Ohio, drinking water treatment plant and private water users on Pelee Island, Ontario, were warned not to bathe in or drink Lake Erie water. The incident affected more than 500,000 people.

Since the early 2000s, the hypoxic (low-oxygen) area in the Central Basin of Lake Erie has increased to about 4500 km², on average, with the largest hypoxic event of 8,800 km² occurring in 2012. Hypoxic conditions can affect the growth and survival of fish species. In 2012, hypoxic conditions were responsible for tens of thousands of dead fish washing up on a 40 kilometre stretch of shoreline between Eriau and Port Stanley, Ontario.

Cladophora is a filamentous green algae that grows on hard substrates in all of the Great Lakes. Beginning in the early 2000s, mats of *Cladophora* in the Eastern Basin of Lake Erie have caused beach fouling, undesirable odours from decomposing *Cladophora*, clogged industrial intakes and degraded fish habitat.



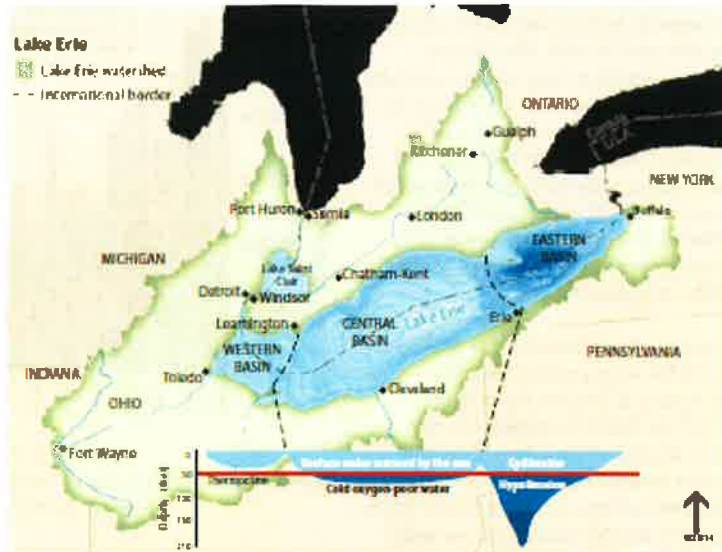
Annual Total Phosphorus Load to Lake Erie.

From Scavia et al. 2014. Assessing and addressing the re-eutrophication of Lake Erie: Central basin hypoxia. *Journal of Great Lakes Research* 40: 276-286.

RECOMMENDED BINATIONAL PHOSPHORUS TARGETS TO COMBAT LAKE ERIE ALGAE BLOOMS

The GLWQA Nutrients Annex Subcommittee has suggested that the Lake Erie algae problem can best be described in relation to the three main basins of the Lake:

- The **Western Basin** is very shallow with an average depth of 7.4 meters (24 feet) and a maximum depth of 19 meters (62 feet). It is warm, and it receives most of the total phosphorus load to the lake because of the size of the Detroit and Maumee Rivers. Since 1994, the Western Basin has received 61 percent of the whole lake annual total phosphorus load, while the Central Basin and Eastern Basin received 28 percent and 11 percent, respectively. As a result, algal blooms dominated by the blue-green alga (cyanobacteria) *Microcystis aeruginosa* occur regularly, fouling shorelines during spring and summer. This species can form blooms that contain toxins (e.g., microcystin) dangerous to humans and wildlife.
- The **Central Basin** is deeper with an average depth of 18.3 meters (60 feet) and a maximum depth of 25 meters (82 feet). Here the excess phosphorus contributes to hypoxic conditions (low oxygen) in the cold bottom layer of the lake (the hypolimnion) when algae die and decompose. The biological activity uses up the oxygen during the summer, leaving little to none for the aquatic community which suffocates or moves elsewhere creating Lake Erie's "Dead Zone."
- The **Eastern Basin** is the deepest of the three basins, with an average depth of 24 meters (80 feet) and a maximum depth of 64 meters (210 feet). Here, the excess phosphorus contributes to the excessive growth of *Cladophora*. *Cladophora* isn't toxic, but it is a nuisance and may contribute to human health problems. Beyond clogging industrial water intakes and degrading fish habitat, rotting mats of *Cladophora* on beaches encourage the growth of bacteria and are a factor in beach closures. The presence of *Cladophora* may create an environment conducive to the development of botulism which results in bird and fish deaths.



Why is Algal Growth Increasing?

A number of factors affect algal growth including climatic conditions and nutrient availability. Increasing temperatures in recent years are creating longer growing seasons for algae and contributing to increased algal growth. More frequent high intensity spring storms are resulting in nutrients being washed off of urban and agricultural lands, as well as causing bypasses and overflows from sewage treatment facilities, which also contain nutrients. Spring nutrient loads are an important factor affecting algal growth.

Overall, monitoring has shown that despite significant year-to-year variation in loads, the total annual amount of phosphorus entering the Lake has been relatively stable over the past 15 years. However, there has been a significant increase in the proportion of the phosphorus load to Lake Erie that is in dissolved, as opposed to particulate, form. Dissolved phosphorus is more easily taken up by algae and contributes to increased algal growth. The reason for the increase in the proportion of phosphorus in dissolved form is not fully understood.

Zebra and Quagga mussels, both aquatic invasive species, have increased water clarity and changed nutrient cycling in Lake Erie, resulting in higher levels of algal growth, particularly close to the shore.

RECOMMENDED BINATIONAL PHOSPHORUS TARGETS TO COMBAT LAKE ERIE ALGAE BLOOMS

So why is Lake Erie experiencing more algal growth than the other Great Lakes? The answer is that, as the smallest of the Great Lakes by volume, and the shallowest, Lake Erie waters are the warmest and most biologically productive. Drainage basin characteristics also play a role. All of the Great Lakes experience issues associated with algae. The governments of Canada and the U.S. have committed to the review of phosphorus targets for all Great Lakes through the 2012 GLWQA. The experience garnered in reviewing Lake Erie targets will inform these reviews. Importantly, experts agree that, while many factors contribute to algal growth, controlling phosphorus concentrations and loads is the best way to reduce algal growth in the Great Lakes.

What is the Desired Outcome?

Eliminating algae entirely is not the goal. Too little algal growth would not support a healthy aquatic ecosystem. The goal is to identify and achieve the right level and type of algal growth to support a healthy and productive Lake Erie ecosystem.

The Agreement provides guidance in relation to what constitutes a healthy and productive ecosystem from an algal production perspective. It does this in the form of the following six Lake Ecosystem Objectives:

1. Minimize the extent of hypoxic zones associated with excessive phosphorus.
2. Maintain the levels of algae below the level constituting a nuisance condition.
3. Maintain algal species consistent with healthy aquatic ecosystems in the nearshore waters of the Great Lakes.
4. Maintain cyanobacteria at levels that do not produce concentrations of toxins that pose a threat to human or ecosystem health in the waters of the Great Lakes.
5. Maintain an oligotrophic state, relative algal biomass, and algal species consistent with healthy aquatic ecosystems, in the open waters of Lakes Superior, Michigan, Huron and Ontario.
6. Maintain mesotrophic conditions in the open waters of the western and central basins of Lake Erie, and oligotrophic conditions in the eastern basin of Lake Erie.

How Were the Recommended Targets Determined?

The GLWQA Nutrients Annex Subcommittee studied information on algal patterns and species, lake circulation, and sources and loadings of phosphorus.

First, the group decided to align the relevant Lake Ecosystem Objectives to each of the three main basins of Lake Erie.

In the Western Basin, where blue-green algae (cyanobacteria) is the problem, the GLWQA Nutrients Annex Subcommittee determined that the focus should be on Lake Ecosystem Objective #4 (*"Maintain cyanobacteria at levels that do not produce concentrations of toxins that pose a threat to human or ecosystem health in the waters of the Great Lakes"*). Having reviewed the available data, the GLWQA Nutrients Annex Subcommittee proposed that in order to reasonably achieve this Objective in the Western Basin, efforts should be directed toward achieving conditions similar to those experienced in 2012, in nine out of 10 years.

Why 2012?

In 2012, the amount of cyanobacteria present in the Western Basin was considered to be a mild bloom; no significant impacts were noted, with the exception of some bloom conditions in inner Maumee Bay. Therefore, a reasonable threshold to limit the cyanobacteria metrics would be at a level below those seen in 2012.

Why Nine Years Out of 10?

In a year with extremely wet conditions in the spring (i.e. heavy rainfall) there will likely be substantial algal blooms despite phosphorus reduction efforts. In consideration of this, the GLWQA Nutrients Annex Subcommittee proposed meeting the 2012 thresholds for algal blooms, on average, nine years out of 10.

RECOMMENDED BINATIONAL PHOSPHORUS TARGETS TO COMBAT LAKE ERIE ALGAE BLOOMS

In the Central Basin, where hypoxia is the problem, the GLWQA Nutrients Annex Subcommittee determined that the focus should be on Lake Ecosystem Objective #1 (*Minimize the extent of hypoxic zones associated with excessive phosphorus*). The GLWQA Nutrients Annex Subcommittee proposed that in order to reasonably achieve this Objective in the Central Basin, efforts should be directed toward achieving an average late summer (i.e. August to September) hypolimnetic (cold bottom layer) dissolved oxygen concentration in the Central Basin of Lake Erie of 2.0 mg/L or higher.

In the Eastern Basin, where *Cladophora* is the problem, the GLWQA Nutrients Annex Subcommittee determined that the focus should be on Lake Ecosystem Objective #2 (*Maintain the levels of algae below the level constituting a nuisance condition*). Having reviewed the available science and modeling, the GLWQA Nutrients Annex Subcommittee proposed that in order to reasonably achieve this Objective in the Eastern Basin, efforts should be directed toward achieving *Cladophora* biomass of less than 50 g/m².

In certain nearshore areas, where localized cyanobacteria blooms are the problem, the GLWQA Nutrients Annex Subcommittee focused on Lake Ecosystem Objective #3 (*Maintain algal species consistent with healthy aquatic ecosystems in the nearshore waters of the Great Lakes*). Having reviewed satellite imagery and other available data, the GLWQA Nutrients Annex Subcommittee proposed that in order to reasonably achieve this Objective in certain nearshore areas, efforts should be directed toward reducing nearshore cyanobacteria blooms.

With the relevant Lake Ecosystem Objectives identified, and quantified, the GLWQA Nutrients Annex Subcommittee next identified the level of phosphorus reduction required to achieve the desired outcomes.

Modeling experts from the United States and Canada used nine different computer simulation models to correlate changes in phosphorus levels with levels of algal growth. By comparing and contrasting the results of these models, the GLWQA Nutrients Annex Subcommittee was able to arrive at phosphorus load reduction targets, calculated using 2008 data. 2008 was selected due to the quality of the data available for that year and because conditions in Lake Erie in 2008 are considered representative of an "average" year.

What are the Recommended Targets?

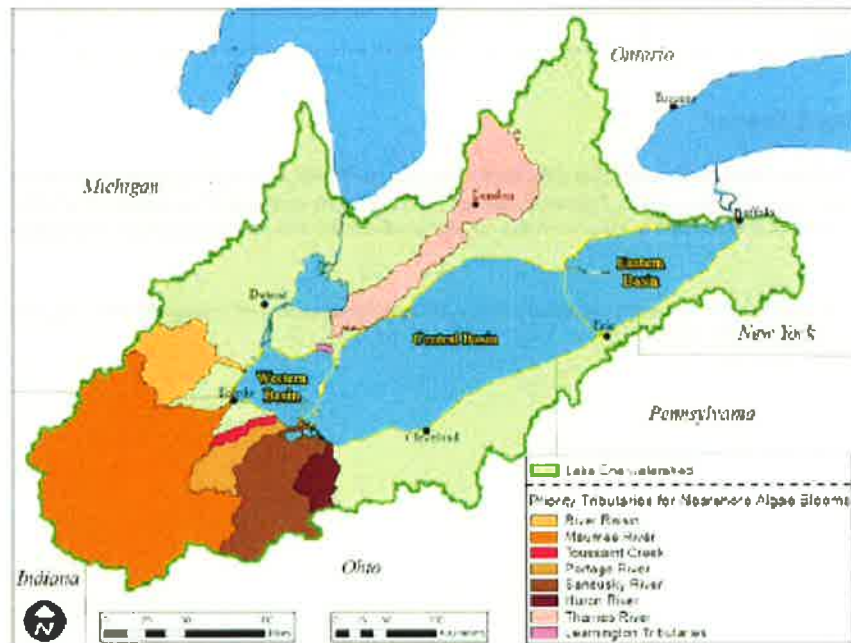
Western Basin: Modeling showed that spring loading of phosphorus from the Maumee River is the determining factor in the production of cyanobacteria in the open waters of the Western Basin of Lake Erie. The GLWQA Nutrients Annex Subcommittee found that to achieve 2012 conditions in the Western Basin in nine out of 10 years, there should be a reduction of 40 percent in spring loads of both total and dissolved phosphorus from the Maumee River. A 40 percent reduction to the Maumee equates to a target spring load of 860 metric tons per year of total phosphorus and 186 metric tons per year of soluble reactive phosphorus under high spring discharge conditions. The GLWQA Nutrients Annex Subcommittee has defined spring as the period between March 1 and July 31 each year.

Central Basin: Modeling showed that phosphorus concentrations in the Central Basin of Lake Erie are the result of loadings from sources discharging to both the Western Basin, including those along the Huron-Erie corridor, and the Central Basin. To achieve a minimum concentration of dissolved oxygen of 2 mg/L in the bottom waters of the Central Basin, there should be a reduction in the load of total annual phosphorus to the Western and Central Basins to 6,000 metric tons per year. This is a 40 percent reduction from the 2008 load.

RECOMMENDED BINATIONAL PHOSPHORUS TARGETS TO COMBAT LAKE ERIE ALGAE BLOOMS

Eastern Basin: For the Eastern Basin, the work group has not recommended a target to address nuisance algae (*Cladophora*) at this time. Additional science is required to link phosphorus loadings to changes in algal production prior to recommending phosphorus reduction targets for this area of the Lake. Nonetheless, it is important to note the targets that have been recommended for the Western and Central Basins work in concert, not in isolation. Because all tributaries to Lake Erie, including the Detroit River and the Huron-Erie Corridor, contribute phosphorus loads to the Eastern Basin, the reductions needed to address algal blooms and hypoxia will lower the phosphorus concentrations in the Eastern Basin as well. This will help address nuisance algal issues in the Eastern Basin, while maintaining enough nutrients to support the fisheries.

Nearshore Waters: In some nearshore areas, including river mouths and embayments, phosphorus loads from the watershed contribute to localized blooms of cyanobacteria. Reducing spring total and soluble reactive phosphorus loadings in these watersheds by 40 percent is expected to reduce localized blooms of cyanobacteria in those areas. The working group has identified the following watersheds where localized cyanobacteria blooms are a concern: in Canada, the Thames River and Leamington area watersheds; in the U.S., the Maumee River, River Raisin, Portage River, Toussaint Creek, Sandusky River and Huron River watersheds. These watersheds are different from each other; as programs are implemented, and research and monitoring efforts increase knowledge and understanding of phosphorus movement in these tributaries and the nearshore, reductions less than or greater than 40 percent may be required in each of these watersheds to resolve the associated nearshore cyanobacteria blooms.



RECOMMENDED BINATIONAL PHOSPHORUS TARGETS TO COMBAT LAKE ERIE ALGAE BLOOMS

Why Aren't Phosphorus Concentration Objectives Being Recommended?

The GLWQA Nutrients Annex Subcommittee has focused its recommendations on phosphorus loading reductions, not on phosphorus concentrations. Phosphorus concentration objectives were established in the past for the Great Lakes. However, the GLWQA Nutrients Annex Subcommittee found that phosphorus concentrations in the nearshore and open waters vary considerably over space and time, making them very difficult to track in a meaningful way through monitoring programs.

As a consequence, the GLWQA Nutrients Annex Subcommittee is recommending that phosphorus concentration objectives not be established for Lake Erie at this time. However, the GLWQA Nutrients Annex Subcommittee has estimated the phosphorus concentrations expected to result from the recommended phosphorus load reductions:

Substance Objectives for Total Phosphorus Concentration in the Open Waters of Lake Erie (µg/L)		
Basin	Interim Objectives <i>Great Lakes Water Quality Agreement Annex 4, Section C</i>	Expected Outcome from Implementation of Proposed Load Reduction Targets
Lake Erie (Western Basin)	15	12
Lake Erie (Central Basin)	10	6
Lake Erie (Eastern Basin)	10	6

What are the Next Steps?

Environment Canada (EC) and the U.S. Environmental Protection Agency (EPA) will be soliciting input on the recommendations of the GLWQA Nutrients Annex Subcommittee. Following consideration of input received, EC and EPA will finalize targets in February 2016. If you would like to provide feedback on the recommended Lake Erie phosphorus reduction targets you can do so at binational.net.

Cover photo: Satellite image of an algal bloom on Lake Erie, taken on September 26, 2013. Credit: NASA image courtesy Jeff Schmalz, MCDIG Rapid Response Team at NASA GSFC.
Banner photo: credit: © Sue Watson, Environment Canada.

Re: Lake Erie's Toxic Algal Bloom is Back and It's Spreading, The Weather Network News

Scott Sutherland
Meteorologist/Science Writer
The Weather Network News

Thursday, August 6, 2015, 1:44 PM - Lake Erie's toxic algal bloom, predicted to rival the record-setting bloom seen in 2011, has now formed and is spreading through the western end of the lake, and even up into Lake St. Clair.

Each summer, Lake Erie goes through a sudden and dramatic shift in colour, as the normal deep blue of the water becomes mixed with the swirls and swaths of vibrant green from algal blooms that spread throughout the shallower regions of the lake.

On July 28, 2015, NASA's Landsat-8 satellite captured the images below, of the western tip of Lake Erie and Lake St. Clair, showing this vibrant green spreading through the water.



Satellite view of western Lake Erie's algal bloom, July 28, 2015. Credit: NASA/Landsat-8



Satellite view of Lake St. Clair's algae bloom, July 28, 2015. Credit: NASA/Landsat-8

The animation (as seen on the website) below, captured by NASA's Terra and Aqua satellites, from July 22 to August 5, show the blooms developing and spreading. (Captured July 21st & August 5th images)

<http://www.theweathernetwork.com/news/articles/lake-erries-toxic-algae-bloom-is-back-and-its-spreading/55354/>





This vibrant green colour comes from a population explosion of algae - known as cyanobacteria - which is touched off by a combination of warm waters, sunshine and an abundant supply of nutrients thanks to phosphorus from commercial agricultural runoff, sewage and industry that gets washed into the lake water.

Cyanobacteria is naturally occurring in the environment, and uses photosynthesis to consume carbon dioxide and phosphorus in the water, and produces oxygen as a waste product. It's thought that these bacteria were the first to introduce oxygen into ancient Earth's atmosphere.

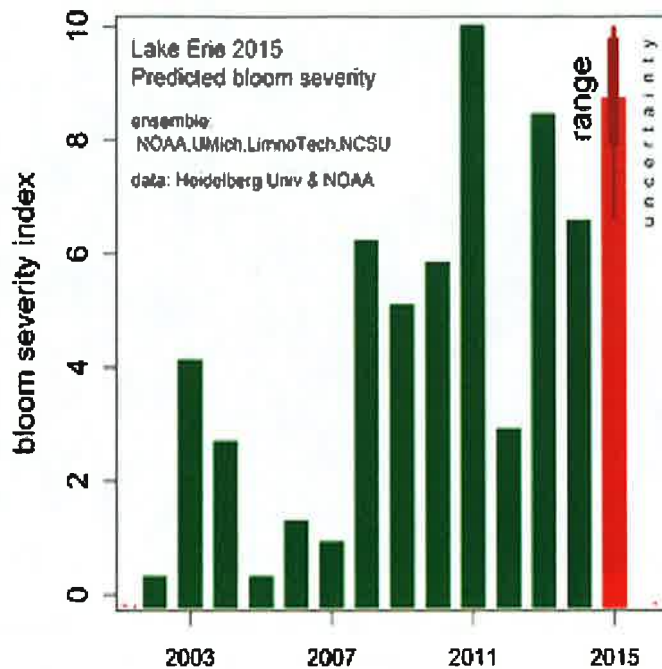
In past, populations were kept more under control by the natural processes in the lake. In more recent years - mainly in the 1950s and 1960s and again roughly in the past decade - higher concentrations of phosphorus entering the lake water have caused more of these population explosions.

Normally fairly harmless in lower concentrations, when these harmful algal blooms (HABs) occur, cyanobacteria pose a risk to aquatic life and human health.

As a bloom spreads throughout the surface layer of lake water, the cyanobacteria release toxins known as microcystins into the environment. Simply swimming in water with high concentrations of microcystins can cause symptoms such as stomach cramps, vomiting, diarrhea, fever, headache, muscle and joint pain, and weakness, as well as skin and eye irritation, sore throat and allergic reactions. If these toxins enter the drinking water supply in sufficient amounts, such as during extreme outbreaks, symptoms can develop that cause liver and kidney damage, or life-threatening bouts of gastroenteritis, aka "stomach flu" (especially for children and the elderly).

Coupled with these toxins, further problems occur due to the life cycle of the cyanobacteria. Since individual bacteria only live for a very short time, even as the bloom spreads, millions of them die in the process. The death and decay of the bacteria strips oxygen from the water (hypoxia), and the dead organisms form a layer of scum on the surface. Thus, the living bacteria in the top layer of the water absorbs sunlight for photosynthesis while at the same time more sunlight is blocked from reaching deeper waters by this scum on the surface. This combination kills off important plant and microorganism

species that live deeper down, and as well as any organisms that depend upon them, worsening the hypoxia in the lake water. Some regions of the lake can become "dead zones," with massive fish die-offs ("fish kills") that can make the situation worse.



Projected HABs bloom range for 2015. Credit: NOAA

Second worst in history?

According to the National Oceanic and Atmospheric Administration (NOAA), this year's Lake Erie algal bloom **could reach severe levels**, and could become the second worst bloom on record, after the current record-holder in 2011.

As stated on the NOAA website:

The bloom will be expected to measure 8.7 on the severity index with a range from 8.1 to potentially as high as 9.5. This is more severe than the last year's 6.5, and may equal or exceed 2013, which had the second worst bloom in this century. The severity index runs from a high of 10, which corresponds to the 2011 bloom, the worst ever observed, to zero. A severity above 5.0 indicates blooms of particular concern.

"While we are forecasting a severe bloom, much of the lake will be fine most of the time. The bloom will develop from west to east in the Lake Erie Western Basin, beginning this month. It is important to note that these effects will vary with winds, and will peak in September," said Richard Stumpf, Ph.D., NOAA's ecological forecasting applied research lead at NCCOS, who formally presented the forecast in a media event and science presentation at Ohio State University's Stone Lab on Lake Erie today [July 9, 2015].



Lake Erie algal bloom, October 9, 2011. Credit: NASA Earth Observatory/Landsat-5

Re: **Water Related Issues, Initiatives & Activities**

i. FLOOD EVENTS

A Power Point presentation will be given at the meeting to address issues around flooding on Lake Erie as it relates to the current high water conditions.

A Safety Bulletin was issued on June 29th. The lower Thames River watershed received between 45 and 65 mm of rainfall on Saturday and early Sunday morning. This rainfall was more than expected and water levels on some local watercourses rose to bank full conditions or spilled their banks. Localized flooding occurred in some places. Overall, the upper Thames watershed upstream of London received less rain with 15 to 55 mm being measured.

Water levels on the Thames River in Chatham had risen about a metre and peaked by the afternoon. The storm created flooding along the Lake Erie shoreline west of Wheatley in the Essex Region Conservation Authority. Flooding was not reported along the shoreline in the Lower Thames Valley Conservation Authority east of Wheatley.

ii. WATERSHED PLANNING

a. Thames Clear Water Revival

There was a Clearwater Revival meeting, but there was no new business presented. The entire meeting was taken up by Environment Canada's presentation on Phosphorus Reduction Targets, which is addressed in the Correspondence section of this agenda.

b. Elgin County Shoreline Management Plan – Update

A meeting was held with the ECSMP TAC group on July 22nd with Peter Zuzak from Baird & Associates to go over the comments that were submitted by the CA staff on the draft shoreline report. The majority of the comments were accepted and changes were made.

Once the edits have been finalized, the report will then be circulated to Elgin County and its member municipalities for review and comments.

c. New website on Harmful Algal Blooms and Hypoxia

The National Oceanic and Atmospheric Administration Great Lakes Environmental Research Library recently launched its updated website on **Harmful Algal Blooms and Hypoxia** (http://www.glerl.noaa.gov/res/HABs_and_Hypoxia/).

The website features real-time monitoring data, algal toxin concentrations, and updated forecasts of bloom size and extent, as well as a perspective of vertical mixing algal blooms in the water. The newest feature is the regularly updated experimental HAB Tracker which provides five-day predictions of algal bloom intensity and movement.

Re: **Biannual Lake St. Clair Conference – Update**

The last organization phone call for the Lake St. Clair Conference was cancelled. While they had intended to send out invitations and open registration at the beginning of September, there has yet to be confirmation of that. As a result, there is nothing new to add to what was reported at the last meeting.

Re: Authority Regulations

i. Development of an Agricultural Guide to Conservation Authority Permits in the Greenbelt and Beyond

Conservation Ontario is in the beginning stages of creating a template guide to support all Conservation Authorities. CO is proposing to use the Greenbelt as a study area for developing a template guide for the conservation authorities to streamline permissions and to communicate with the agricultural sector. This template guide will be useful to CA's outside of the Greenbelt as well.

The template guide will recommend, for example, pre-approved agricultural activities (i.e. permit application not required) and improvements to and clarity in process to support the agriculture sector's efforts to achieve value-retaining and value added improvements to their business in a timely manner. The 'template guide' will be grounded in a focus on practical solutions that facilitate good working relationships while respecting the importance of the permissions required under the regulation.

The communications focus would be on emphasizing the streamlining aspects and on communicating how the regulations support agricultural business interests. Again, the project proposal is a template guideline for each conservation authority to use as the basis for creation of their local guideline that is specific to the agricultural sectors/activities and natural hazards specific to their watershed jurisdictions.

The survey was sent around to all the CA's on June 8th to fill out general questions around any existing short cuts or template packages that were available for use at each CA and what works they covered.

ii. Applications for Permission under Ontario Regulation 152/06 (CA Act)

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APP#	APPLICANT	LOT	CON/PLAN	TOWN/CITY	MUNICIPALITY	APPLICATION TYPE	DECISION
2013 Files							
3-2013	Onsleaid, Ronald & Sherry	25	PI 622	Wheatley	Chatham-Kent	Alteration	Board Approved: September 17, 2013 (amended April 20, 2015)
2014 Files							
71-2014	Panjer, Myrna	475	421	Harwich	Chatham-Kent	Construction	Board Approved: August 6, 2014 (amended July 2, 2015)
2015 Files							
6-2015	County of Elgin c/o K. Eglehart	15 & 16	SETRNB	Southwold	Southwold	Alteration	Granted: April 29, 2015
7-2015	County of Elgin c/o K. Eglehart	Z	BFED	Dunwich	Dutton/Dunwich	Alteration	Granted: April 29, 2015
38-2015	Boucher, Mario	208-211	1624	Lighthouse Cove	Lakeshore	Construction	Granted: April 10, 2015 (amended April 20, 2015)
39-2015	Boucher, Lucille	212-214	1624	Lighthouse Cove	Lakeshore	Construction	Granted: April 10, 2015 (amended April 20, 2015)
40-2015	Jaques, Bruce	218,219,229	1620	Lighthouse Cove	Lakeshore	Construction	Granted: April 28, 2015
42-2015	Neary, Martin	19	1	Caradoc	Strathroy-Caradoc	Construction	Granted: April 20, 2015
43-2015	Community of Christ - Erie Beach	3	4 WCR	Harwich	Chatham-Kent	Construction	Granted: April 24, 2015
44-2015	Pullen, Frank & Heather	5	109	Shrewsbury	Chatham-Kent	Construction	Granted: April 24, 2015
52-2015	VanOverloop, Nathan	16	1 RTS	Harwich	Chatham-Kent	Construction	Granted: April 28, 2105
53-2015	Municipality of Chatham-Kent c/o Mike Demers	5	2RT	Harwich	Chatham-Kent	Alteration	Granted: April 24, 2015
67-2015	MacDonald, Dan & Nancy	13	2	Tilbury	Chatham-Kent	Construction	Granted: June 15, 2015
72-2015	Dale, Jim & Amy	10	109	Harwich	Chatham-Kent	Construction	Granted: June 3, 2015
74-2015	Gerber, Judy & Frank	1	607	Howard	Chatham-Kent	Construction	Granted: July 28, 2015 (amended August 7, 2015)
75-2015	Heyink, Judy & Henry	8	24R6934	Chatham	Chatham-Kent	Construction	Granted: June 22, 2015
76-2015	Estate of Arthur & May York c/o Kenneth & Laura Walker	153	118584	Blenheim	Chatham-Kent	Construction	Granted: June 15, 2015
77-2015	Toth, Dennis & Connie	88	669	Morpeth	Chatham-Kent	Construction	Granted: June 12, 2015
78-2015	Massender, William & Stephanie	17	Broekn Front	Tilbury	Chatham-Kent	Construction	Granted: July 10, 2015
79-2015	Roberts, Nick	8,9	109	Shrewsbury	Chatham-Kent	Construction	Granted: June 22, 2015
80-2015	Doan, Jerrold E.	16	109	Shrewsbury	Chatham-Kent	Construction	Granted: June 22, 2015
81-2015	Union Gas c/o Michelle Landuyt	14	5	Raleigh	Chatham-Kent	Construction	Granted: June 15, 2015
82-2015	Thibideau, Gerard	13	4	Tilbury	Chatham-Kent	Construction	Granted: June 18, 2015

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83-2015	Municipality of Chatham-Kent c/o David Charron	1	3	Harwich	Chatham-Kent	Alteration	Granted: June 16, 2015
84-2015	Municipality of Chatham-Kent	19-20	Townline Range	Harwich	Chatham-Kent	Alteration	Granted: July 2, 2015 (amended August 10, 2015)
85-2015	Town of Lakeshore c/o Jill Fiorito	17	NMR	Belle River	Lakeshore	Alteration	Granted: June 18, 2015
86-2015	Fair, Jason	5	11M166	Iona Station	Dutton/Dunwich	Construction	Granted: June 18, 2015
87-2015	Township of Southwold c/o Brent Clutterbuck	11 to 14 & 7-10	Conc 3 to 5 & NNBTR	Southwold	Dutton/Dunwich	Alteration	Granted: July 2, 2015
88-2015	Township of Southwold c/o Brent Clutterbuck	14-16	NNBTR-SNBT	Southwold	Dutton/Dunwich	Alteration	Granted: July 2, 2015
90-2015	White, Barry	189	TRW	Romney	Chatham-Kent	Construction	Granted: July 3, 2015
91-2015	Casey, Ireland	1	109	Shrewsbury	Chatham-Kent	Construction	Granted: July 13, 2015
92-2015	Municipality of Chatham-Kent c/o David Charron	14, 15 & 16	13	Howard	Chatham-Kent	Construction	Granted: July 10, 2015
93-2015	Dupuis, Dave	34	624	RBE	Chatham-Kent	Construction	Granted: July 14, 2015
94-2015	Harris, Peter			Chatham	Chatham-Kent	Construction	Granted: July 3, 2015
95-2015	Charron, Raymond	5	SSLR	Zone	Chatham-Kent	Construction	Granted: July 21, 2015
96-2015	Odette, Ryan	608 & 609	1620	Lighthouse Cove	Lakeshore	Alteration	Granted: July 21, 2015
97-2015	Canadian Wildlife Service c/o Andrea Kettle	1	4 West	Dover	Chatham-Kent	Alteration	Granted: July 3, 2015
100-2015	Township of Southwold c/o Brent Clutterbuck	8	NNBTR	Southwold	Southwold	Alteration	Granted: July 20, 2015
101-2015	Wood, Edwin	Pt. 411, 414, 415, 416	421	Harwich	Chatham-Kent	Construction	Granted: August 6, 2015
102-2015	Dick, Darrell & Witmer, Kathy	Pt. 6	Con 10	Dunwich	Dutton/Dunwich	Construction	Granted: July 28, 2015
103-2015	Municipality of Strathroy-Caradoc c/o Matthew Stephenson	1	R1N	Caradoc	Strathroy-Caradoc	Alteration	Granted: July 20, 2015
105-2015	Municipality of Southwest Middlesex c/o Elizabeth Jeffery	9 to 11	R1S	Elmfrd	Southwest Middlesex	Alteration	Granted: August 6, 2015
106-2015	Van der Velde, David	49	624	RBE	Chatham-Kent	Alteration	Granted: August 6, 2015
107-2015	Kotsifas, George	38	624	RBE	Chatham-Kent	Alteration	Granted: August 6, 2015
108-2015	Municipality of Southwold c/o Brent Clutterbuck	15	NNBTR	Southwold	Southwold	Alteration	Granted: August 7, 2015
109-2015	Municipality of Chatham-Kent c/o Steve Piche	10	8	Raleigh	Chatham-Kent	Construction	Granted: August 7, 2015

That applications: 3-2013, 71-2014, 6-2015, 7-2015, 38-2015 to 40-2015, 42-2015 to 44-2015, 52-2015, 53-2015, 67-2015, 72-2015, 74-2015 to 88-2015, 90-2015 to 97-2015, 100-2015 to 103-2015, 105-2015 to 109-2015 be ratified.

Re: Conservation Services

GREENING PARTNERSHIP

i. Grants

Our application to the federal Enabling Access Fund (EAF) was successful for a total of \$50,000. Funds will be used to offset the costs of the wheelchair accessible washroom and ramp at the administration office.

Under the Canada/Ontario Agreement (COA), \$118,000 will be coming to LTVCA for work in the Rondeau Bay watershed. Projects include wetlands, prairies, and Phragmites control.

The Chatham-Kent Community Foundation has granted \$6,500 towards large stock trees.

ii. Prairie

Tallgrass Ontario has funded LTVCA for \$8,600 towards new prairie establishment in 2015.

iii. Wetlands

Wetland excavations continue through our grants from the National Wetland Conservation Program, Ducks Unlimited Canada, MNRF, Enbridge and CFIA funds. 5 new projects on private lands have been completed since our last meeting.



Skakel Wetland in East Kent

iv. Greenhouse

The Municipality of Chatham-Kent has surplused the Grand Ave. greenhouses as they are going to contract out their growing needs. We have \$28,000 to relocate, possibly to CM Wilson CA.

v. Natural Heritage Implementation Strategy (NHIS)

The NHIS review committee held its first meeting June 24 at the LTVCA administration office. It was well attended with representatives from the Kent Federation of Agriculture, Sydenham Field Naturalists, Carolinian Canada Coalition, Municipality of Chatham-Kent, National Farmers Union and the SCRCA. LTVCA staff updated committee members on the status of the strategy and CK staff indicated that they would bring our findings to CK Council in September.

The NHIS includes 29 recommendations from council. This includes a Stewardship Bus tour of project sites. As such, September 23rd has been set for a day trip around Rondeau Bay where participants will see wetlands, buffer strips, Phragmites control and nutrient catchment projects that all assist in reducing phosphorous into Lake Erie. For more details check out our website.

vi. OMAFRA Research Project Update, McLean Conservation Lands

After completing the installation of the meteorological station this spring, Colin Little (LTVCA), Richard Brunke (OMAFRA), Ivan O'Halloran (University of Guelph), and Kelli Smith (SCRCA) have been collaborating to design a research project that will aim to monitor the subsurface tile runoff of phosphorus at the McLean Conservation Lands. The team plans to install an ISCO auto sampler this fall that will collect water samples from tile runoff throughout the year. These samples will be analyzed to collect baseline data on the amount of phosphorus that is running off into Rondeau Bay from the farms agricultural practices. There is a specific interest to compare how different agronomic practices effect the amount of phosphorus loading that is occurring and how seasonality and severe weather events affect the rate of nutrient runoff.

vii. Agricultural Specialist – Stewardship Projects

Over his first 3 months, Colin has begun to plan and implement stewardship projects throughout the watershed. These projects include the construction of a cable concrete waterbed crossway that will allow a farmer to access the back of his property with his heavy equipment in a manner that will not disturb the aquatic habitat. Additionally, an erosion control project was completed with a farmer that involved relocating an access road away from the bank of the Thames River, planting prairie grass to stabilize the top of the bank, as well as constructing a pond for a waterfowl habitat.



viii. Agricultural Specialist - Community Outreach and Education

As the new Agricultural Specialist, Colin has been active in the community attending meetings and events with farm organizations such as the KFA, CKSCIA, and Farm and Food Care. Some of the events and meetings Colin has attended to introduce himself to agricultural stakeholders include:

- Farm & Food Care Stakeholder Meeting on Lake Erie Action Plan
- KFA July Board Meeting
- GLASI Priority Subwatershed Information Meeting
- Elgin Clean Water Program Committee Meeting
- CKSCIA Ridgetown Cover Crop Twilight Tour

Additionally, he has been working with industry partners, Thompsons Limited and Devolder Farms, to collaborate on the development of educational outreach and workshop programs. On August 11th, the Agricultural Specialist had a kiosk setup at Devolder Farms "Precision Planting Field Day" to provide information on stewardship opportunities, harmful algae blooms and best management practices that can be implemented to reduce phosphorus loss from the field. Furthermore, Colin will be showcasing a wetland restoration site at the KFA "Round the County Agriculture Tour" on September 13th. Visitors will receive a tour of the wetland site and will be provided with information on how they may qualify for funding to develop various stewardship projects.

ix. Species At Risk Job Posting

Through the Species at Risk Fund (SARF), \$41,000 has been received to hire a SAR Drainage Biologist. This position will be in the LTVCA administration office and work closely with the CK Drainage Superintendents, assisting staff with ESA screenings, and ideally promoting Best Management Practices around drainage areas. Job posting closes August 21, interviews are set for September 10.

Re: Conservation Areas

i. 2015 June 1 – July 31 Visitation / Camping Stats

Longwoods Road Conservation Area – 2,379 people (2,758 in 2014)
(includes 2 people per pay & display permit (transaction)
Pay and Display Permits - 320 vehicles (267 in 2014)

E.M. Warwick Conservation Area – NA (250 in 2014)

Big Bend Conservation Area – 543 people (620 in 2014)

C.M. Wilson Conservation Area – NA (4,711 in 2014)
(includes 2 people per pay & display permit (transaction)
Pay and Display Permits – 370 vehicles (41 in 2014)

WESTERN DISTRICT CA's

ii. Administration Building – Office Landscaping

The exterior of the Admin Building is nearing completion, with the brick work and siding having been completed, with the work crew working on finishing the trim. The interior of the building is seeing a fresh coat of paint in the front entryway, washrooms and new storage room addition.

To complement the new office renovations and parking lot design, the riverbank at the administration office has been hydro seeded with native grasses and wildflowers. This will provide many benefits including: bank stabilization, pollinator habitat, and beautification with an improved view of the Thames River.



Jenkins landscaping hydro seeding river bank of the Thames River.

iii. Stewardship Rangers – Big ‘O’ and Rowsom CA’s

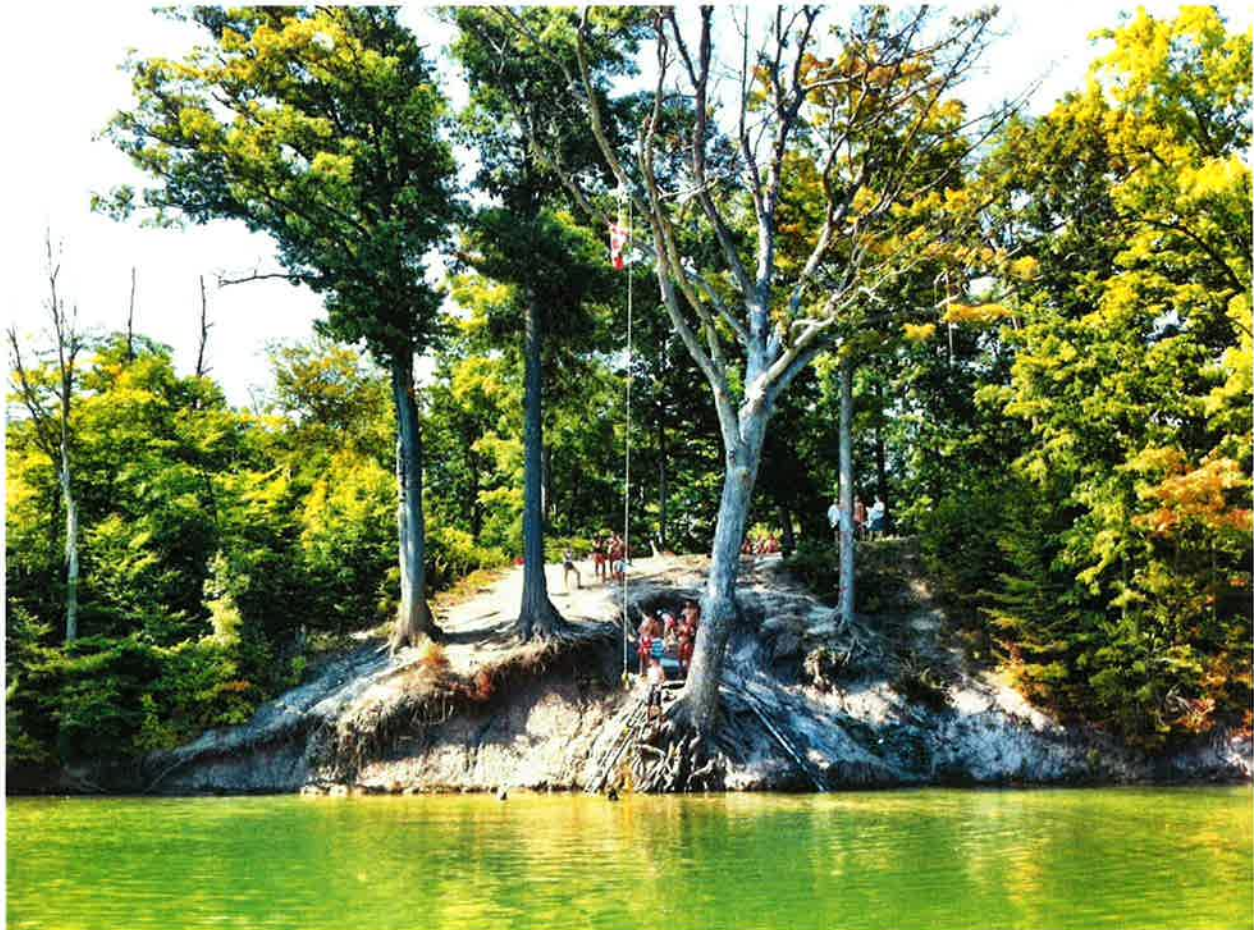
MNRF Stewardship Rangers program consists of four 17 year old students and a leader that assist organizations with conservation minded projects. This year staff led the group to two of our Western District properties for trail work, garbage clean up and installation of trail signs.

EASTERN DISTRICT CA’S

iv. Sharon Creek, Tree Removal / Swing

The controversial ‘tree swing’ at Sharon Creek CA was removed on July 4th by CA staff. The removal of the tree(s) made headlines on July 20th (article below) with much feedback from the ‘users’. The paper actually undertook a poll to see who was in favour of the removal and who wasn’t. The results of the poll are included at the end of the article.

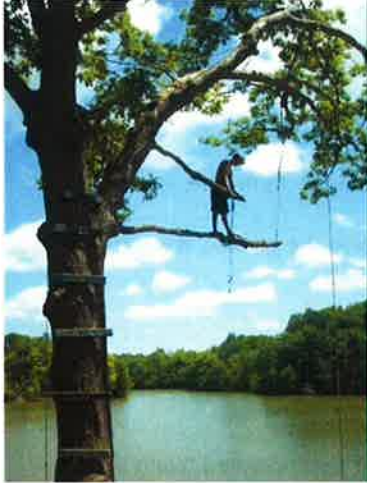
This ‘swing’ has been located in various locations throughout the park over numerous years, with staff removing the boards/steps and ropes, and in some cases removal of the tree(s) themselves in order to curtail this activity. The individuals utilizing this unauthorized ‘swing’ have repeatedly over the years replaced the steps, rope and/or found other trees along the shoreline from which to swing from. This is an on-going issue that staff will need to continue to monitor for as it has already been stated in the media release below that a new tree will be found to continue this unauthorized activity.



Sharon Creek Conservation Area bows to safety concerns and removes rope swing



By [Dale Carruthers](#), The London Free Press
Monday, July 20, 2015 11:43:59 EDT AM



DELAWARE - Countless adventurers have channelled their inner Tarzan at Sharon Creek Conservation Area west of London.

Clinging to a rope dangling from the branch of a giant tree, they'd swing out over the water before letting go and plunging into the swimming hole.

You can find young people performing the feat on dozens of YouTube videos — some, gracefully; others, awkwardly — as friends cheer.

No more. The big elm tree that held up all the fun is suddenly gone, cut down by the area conservation authority.

The mid-summer move, which ended a more than three-decades-long tradition, sparked a swift backlash.

"Everyone that I talk to is really upset and ticked off about it," said Londoner Carter Spence, 16, who discovered the downed tree when he went for a refreshing swing.

"It was one of the best spots to go to in the summer," said the Regina Mundi secondary school student.

The tree had died, meaning its branches could snap without warning, said Don Pearson, general manager of the Chatham-based Lower Thames Valley Conservation Authority.

"I guess we've been painted as the killjoys. But, quite frankly, the possibility of someone getting injured or worse was quite high there," he said.

Rungs were nailed into the tree so thrill-seekers could climb 10 metres to the top branches for take-off.

"We've played cat and mouse for years taking down the steps, taking down the ropes," Pearson said.

"It's not safe for our staff to take them down," Pearson said.



A second dying tree at the water's edge was also cut down, preventing a new swing at the same site.

Deep in the conservation area, the area was especially popular with teens who coveted the privacy. It wasn't unusual to see dozens hanging out there during the summer, with lineups to use the rope swing.

Brandon Moore, 29, recalls skipping high school to spend the day at Sharon Creek with friends.

"It's like a rite of passage in London," he said.

Remnants of a large bonfire were visible at the site over the weekend. Someone had spray-painted "Long live Sharon's Creek" on the two felled trees.

The Facebook page [RIP Sharon's Creek](#) quickly drew more than 600 likes, with members sharing stories, photos and videos from the popular hangout.

Though Moore hasn't been back to Sharon Creek in years, he's optimistic a new rope swing will go up.

"I guarantee someone will find another tree that's awesome," he said.

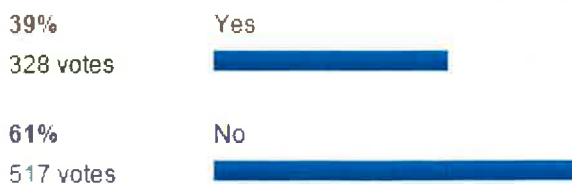
dale.carruthers@sunmedia.ca

[Twitter.com/DaleatLFP](https://twitter.com/DaleatLFP)

Poll

Do you support the removal of the Sharon's Creek rope swing?

Monday, August 17, 2015



v. Sharon Creek, Dog Bite Incident

On July 8th a mother and her 4 year old son were walking through Sharon Creek CA. A couple of dogs were on the loose and one of them aggressively approached her son, and eventually bit him, which resulted in a hospital visit and several stitches. Initially the OSPCA and the police were reluctant to get involved so LTVCA staff investigated the dog owner and were ready to lay charges under the CA Act, Section 28 regulations. However the OSPCA eventually quarantined the dog and charges were laid by both the OSPCA and the area police, therefore it was deemed redundant to lay any further charges. The victim has fully recovered and the mother is happy.

Re: Community Relations

- **Media releases** are written as needed for Conservation Authority programs and services. They are emailed to local print and radio media, watershed politicians, LTVCA and LTVCF Directors, member municipalities of the LTVCA, Ska-Nah-Doht Village Advisory Committee, LTVCA staff, neighbouring Conservation Authorities and Conservation Ontario. They are also posted on the Conservation Authority's website and Facebook pages.

Since June 25, 2015, five media releases have been written (attached)

- "Spend a Day in the Park, Step into the Past"
Artifact Day with Ska-Nah-Doht and the OAS,
- "Experience Longwoods and Ska-Nah-Doht Village at Dusk!"
Night Hikes and Night Legends,
- "LTVCA Hires 5 Summer Students"
\$15,000 in Grants for Youth Employment Programs,
- "5 Days of the Wild and Beautiful"
Paddling the Thames Delaware to Chatham!
- "Jazzing Up the Park!"
The David Jolly Quartet to Play at Longwoods!

All Directors were emailed a copy of the above media releases and as well, they were posted on our website, Facebook and Twitter. Local watershed media contacts (daily and weekly print, television and radio stations) database update is ongoing.

In the works is a media release/article about the LTVCA's monitoring programs. It will overview our new Benthic program and discuss our current Provincial Water Quality Monitoring Network (PWQMN) for surface water and the Provincial Ground Water Monitoring Network (PGMN).

- **Displays and Exhibits** are created to update programs and information for the public. Interpretive signage for the outside of the kiosk is next to explain about the native gardens.
- **Advertisements** have been taken out in the tourist guides for Chatham-Kent, Middlesex and Elgin for C.M. Wilson and Longwoods Road Conservation Area.
- **Presentations** are given to community groups upon request. Support is provided to staff for official openings, funder recognition ceremonies and community events upon request.
- **Committees and Meetings:** Staff attended meetings of the Thames-Sydenham and Region Source Protection Region's communications team as they develop communication products for the Source Protection Plan development. As well, staff attended the Source Protection Committee meetings. Staff participate on planning committees which meet regularly for the Children's Water Festival – Chatham-Kent and Lambton.

- **The LTVCA's new website and social media (YouTube, Twitter and Facebook)** are updated daily with current/relevant Conservation Authority information and events. The website address is www.ltvca.ca. We encourage you to check in with us daily and share with your friends! Updates highlighting LTVCA projects, events and current conservation activities relating to the watershed are posted. Photos and video clips of programs and projects are taken regularly.
- **Soft Launch of new Conservation Authority logo:** Staff initiated the process of introducing the new Conservation Authority logo, beginning with our social media and website, letterhead and business templates, publications and advertising. Much more to be done in the future.
- **Lower Thames Valley Conservation Foundation Directors' Meeting July 7, 2015.**
- **Events in conservation areas include:**
 - Directors' Bus Tour, June 25
 - Artifact Day Sunday, July 19th – Ska-Nah-Doht
 - Longwoods Volunteer Picnic, July 22 – Longwoods/Ska-Nah-Doht
 - Night Hikes and Night Legends Tuesdays, July 7 – August 25, 7 p.m.- 9 p.m. (Longwoods/Ska-Nah-Doht)
 - NEW! Jazzing Up the Park – September 12, 1:30 – 4 (Longwoods/Ska-Nah-Doht)
 - McKinlay Memorial Forest Dedication Service - September 13 (C.M. Wilson)
 - Badder Memorial Forest Dedication Service – September 20 (Mosa/Bothwell Forest)(Skunks Misery)
 - Tilbury Northside Park Memorial Forest Dedication Service – September 27 (Tilbury Northside Park)
 - Chatham-Kent and Lambton Children's Water Festival – September 29 – October 1 (C.M. Wilson)



1. Directors' Bus Tour (June 25)



2. Artifact Day (July 20)



3. Longwoods Volunteer Picnic (July 22)



4. Tuesday Night Hikes and Night Legends (July and August)

Upcoming....



5. Jazzing Up the Park (Sept.12)



6. Memorial Forest Dedication Services (September)



7. Chatham-Kent and Lambton Children's Water Festival (September 29- Oct.1)

- **Publications:** Community Relations staff assist Conservation Authority staff with publications as needed.

- **Courses/Certification:** Staff keep current by attending appropriate courses as needed.

- **Applications**

An application to the TD Friends of the Environment Foundation for funds to produce new trail signage and/or complete trail repairs at Longwoods Road Conservation Area was submitted in July. We will find out if our request for approximately \$2500 was successful in October.

As well, Longwoods Road Conservation Area and Ska-Nah-Doht Village and Museum have been selected by the Ivey School of Business to be used as a case study by their students. This study will be started in the fall and will benefit us in that the outcomes will help steer future marketing for the park.

Media Release
For Immediate Release
June 29, 2015

"Spend a Day in the Park, Step into the Past"
Artifact Day with Ska-Nah-Doht and the OAS



Mount Brydges – Dust off your shoe box of treasures from the past and bring them out for Artifact Day on Sunday, July 19 from 1 p.m. to 4 p.m. The staff of Ska-Nah-Doht Village and Museum will be joined by the members of the Ontario Archaeological Society to help identify your artifacts. Enjoy demonstrations by North American Champion Flint Knappers!

Try your hand at making your own treasure. Get ready to challenge your friends and family at some traditional Native games! Test your skills as a hunter with atlatl target throwing. This event is free with regular park admission. Park admission is at the Pay and Display machine at the entrance. Coin or credit card only, the rates are \$4

per vehicle for 1.5 hours, \$8 for 3.0 hours or stay the day for \$12.00.

Pack a picnic lunch so you can spend a day in the park with your family and walk through the nature trails. Be sure to stop by the Turtle Trail Gift Shop in the Resource Centre featuring local First Nations crafts and stained glass pieces. For your visiting pleasure, we recommend you consider bringing insect repellent as we are located in a natural woodland setting.

Ska-Nah-Doht Village and Museum is located in the beautiful surroundings of Longwoods Road Conservation Area, 8348 Longwoods Road (Middlesex County Rd. 2), 8.5 km west of Delaware and 10 km east of Melbourne. Longwoods Road Conservation Area and Ska-Nah-Doht Village and Museum are owned and operated by the Lower Thames Valley Conservation Authority.

For further information contact:

Karen Mattila – Curator Ska-Nah-Doht Village and Museum
Tel: 519-284-2420
Email: Karen.Mattila@ltvca.ca
www.ltvca.ca

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To download a Guide to Conservation Areas in Ontario please visit <http://www.ontarioconservationareas.ca/>.

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Media Release
For Immediate Release
June 29, 2015

"Experience Longwoods and Ska-Nah-Doht Village at Dusk!"

Night Hikes and Night Legends



Mount Brydges – There's something new to do on Tuesday evenings at Longwoods Road Conservation Area and Ska-Nah-Doht Village! Come on out for Night Hikes and Night Legends!

Bring the entire family and meet at the Resource Centre every Tuesday evening beginning July 7th. The activities will start at 7 p.m. and wrap up at around 9 p.m., rain or shine!

Please pay the \$4 vehicle charge at the pay and display machine near the park entrance gatehouse and display your ticket on your vehicle's dash.

We recommend you dress comfortably for the outdoors, wear insect repellent and bring a water bottle.

July 7th – This night hike is all about forest plants and sounds! After the hike we will make our own sounds. Enjoy campfire songs around the open fire. Bring your guitar or just sing along. Clapping is encouraged.

July 14th – Experience an evening tour at Ska-Nah-Doht Village and Museum. Learn hands-on about life 1,000 years ago. We will even put you to work! Share stories and legends under the stars.

July 21st – Explore the forest at dusk for Flying Squirrels, Owls and Bats on a woodland hike. Then join us for songs around the campfire. Bring your guitar or just tap your feet!

July 28th – Experience your own Night at the Museum! Then it is legends by the fire right in the longhouse at Ska-Nah-Doht Village. It's a night to share stories from your culture too.

Information about the Tuesday evening events in August will be released in July. Stay tuned!

Longwoods Road Conservation Area and Ska-Nah-Doht Village are located 6.5 km west of Delaware at 8348 Longwoods Road, Mount Brydges. Just 30 minutes west of London, or 1 hour east of Chatham.

For our other conservation area directions, all fees and facilities please visit our website www.ltvca.ca and click on the Conservation Areas tab.

For Further Information Contact:
Lower Thames Valley Conservation Authority
519-284-2420

info@ltvca.ca www.ltvca.ca



To download a Guide to Conservation Areas in Ontario please visit <http://www.ontarioconservationareas.ca/>.

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Media Release
For Immediate Release – July 22, 2015

LTVCA Hires 5 Summer Students **\$15,000 in Grants for Youth Employment Programs**



Chatham / Delaware - The Lower Thames Valley Conservation Authority (LTVCA) received over \$15,000 in Federal and Provincial grants to employ 5 students this summer. Job experiences include benthic monitoring, GIS mapping, museum graphics design and visitor services. Federal government programs provided \$9,098 and Provincial government programs supported with \$5,978.

This summer, Tyler Dore and Jessalyn Chen collect data for the Provincial Ground Water Monitoring Network throughout the LTVCA's watershed.

At the Chatham LTVCA Administration Building, 3 students are working as a Benthic Monitoring Assistant, a Geographic Information Systems (GIS) Assistant and an Assistant Water Resources Technician. These positions are funded through two Ontario Ministry of Natural Resources and Forestry grants (Provincial) and an Employment and Social Development Canada grant (Federal). The duration of these grants ranges from 34 days to 12 weeks. Stephanie Johnson of Amberstburg, Jessalyn Chen from Toronto and Tyler Dore of Chatham fill these positions.

At Longwoods Road Conservation Area and the Ska-Nah-Doht Village and Museum just west of Delaware, 2 students are working as a Museum Design Assistant and a Community Activities Coordinator. A 10 week Canadian Heritage grant (Federal) and an 8 week Employment and Social Development Canada (Federal) grant funded these positions. Natalie Barrett and Nicole Boere of London accepted these summer jobs.

The LTVCA is grateful to have received this funding as it provides increased capacity enabling important research and development for our conservation programs. In return, local students receive valuable work experience in office and field situations, as well as health and safety training for their particular jobs. This summer, the grants provide these students an opportunity to work alongside senior staff to conduct water monitoring research and put into practice current mapping techniques. The Ska-Nah-Doht Resource Guide for teachers and various publications are being redesigned for web friendly access. As well, community outreach for the Museum is successfully underway at local festivals, offsite events and new on-site activities for visitors to Longwoods Road Conservation Area.

For Further Information Contact:
Lower Thames Valley Conservation Authority
519-354-7310
info@ltvca.ca www.ltvca.ca



To download a Guide to Conservation Areas in Ontario please visit <http://www.ontarioconservationareas.ca/>.

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Media Release
For Immediate Release
July 8, 2015

"5 Days of the Wild and Beautiful"

Paddling the Thames Delaware to Chatham!



Delaware – Putting in at Delaware on July 16th, Trevor Thompson and his seven-year-old son Ian will be canoeing down the Thames River to their Chatham destination. "It's something I've been planning for years – says Trevor. During the 1813 celebrations I paddled with my wife from Louisville to nearly Thamesville, upstream. We fell short of our goal of Thamesville but I was struck by the beauty of the river and its wildlife. We saw herons, deer, fish jumping, muskrats and more. It was then I decided I wanted to go downstream from the London area to Chatham."

The trip from Delaware to Chatham is 150km. Trevor and Ian's goal is to paddle 40km a day. At that rate, they should take 2 days to arrive just east of Wardsville at the Big Bend Conservation Area, around July 17th. Thamesgrove Conservation Area in east Chatham will be in sight on the 4th or 5th day by July 19 or 20, where they will finally pull out the canoes.

It will be the first multi day canoe trip Trevor has ever taken. "I believe the Thames is misunderstood river, both from an environmental and ecological standpoint and a tourism standpoint. It's easily accessible and it's close to home which is great if the weather turns sour or we need to cut the trip short. It winds through a very populated area and yet retains its wild side. There aren't any portages from London to Lake St. Clair and is very calm water making it ideal for beginner paddlers."

Trevor is also new to the Lower Thames Valley Conservation Authority's Board of Directors, representing Chatham-Kent. He says there are three reasons for the trip. The first being he has always wanted to travel the river, the second that it's a good opportunity to learn more about the entire watershed first hand and finally, it's a good way to highlight the tourism opportunities of the river. The Thames River is a Canadian Heritage River, designated in the year 2000, joining an elite group of rivers across Canada.

We will be following Trevor and Ian's trip down the Thames on our LTVCA's Facebook page at <http://www.ltvca.ca/facebook> and Trevor will be tweeting from the trip a couple times a day. <http://www.twitter.com/LTVCA>. Safe paddling!

"A journey by canoe along ancient waterways is a good way to rediscover our lost relationship with the natural world and the Creator who put it together so long ago." – Bill Mason, Path of the Paddle

For Further Information Contact:
Lower Thames Valley Conservation Authority
519-264-2420
info@ltvca.ca www.ltvca.ca



To download a Guide to Conservation Areas in Ontario please visit <http://www.ontarioconservationareas.ca/>.

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Media Release
For Immediate Release
August 7, 2015

"Jazzing Up the Park!"

The David Jolly Quartet to Play at Longwoods!



Mount Brydges – Come on out and enjoy an afternoon of "Jazzing Up the Park" with the **David Jolly Quartet** at Longwoods Road Conservation Area. Everyone is welcome to tap their toes and "cut a rug" at the park pavilion on Saturday, September 12 from 1:30 pm to 4 p.m..

The music will play on rain or shine...so bring a blanket or lawn chair and dress for the outdoors! Adults \$10 each, or \$5 for under 17 years.

Based out of the Woodstock area, jazz guitarist David Jolly, Brian McHugh on drums, Dean Harrison on keyboards and Pete Hysen on bass will create a smooth and mellow ambiance at our open air venue. You won't be disappointed! Light refreshments will be available. We thank our local community in advance for their financial support in helping us sponsor this special afternoon. Check out David Jolly on Facebook at <https://www.facebook.com/pages/David-Jolly-Jazz-Guitarist/111845825510957>.

Longwoods Road Conservation Area and Ska-Nah-Doht Village are located 6.5 km west of Delaware at 8348 Longwoods Road, Mount Brydges. Just 30 minutes west of London, or 1 hour east of Chatham.

For further information about our other conservation areas, directions, all fees and facilities please visit our website www.ltvca.ca and click on the Conservation Areas tab.

For Further Information About this Event Contact:

Lower Thames Valley Conservation Authority
519-264-2420

info@ltvca.ca www.ltvca.ca



To download a Guide to Conservation Areas in Ontario please visit <http://www.ontarioconservationareas.ca/>.

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JAZZING UP THE PARK

SATURDAY SEPTEMBER 12, 2015

LONGWOODS ROAD
CONSERVATION AREA PAVILION

DAVID JOLLY QUARTET

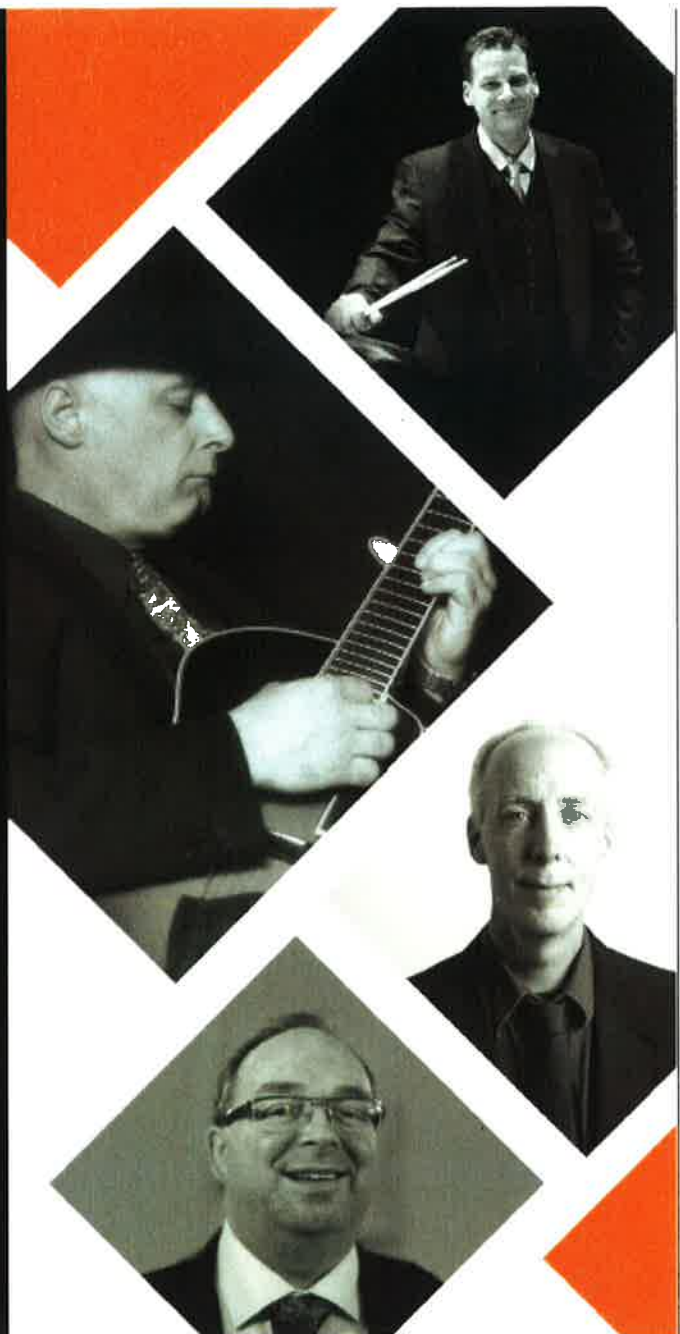
DAVID JOLLY • GUITAR
BRIAN MCHUGH • DRUMS
DEAN HARRISON • KEYBOARDS
PETE WISEN • BASS

\$10.00 EACH, \$5.00 CHILDREN UNDER 17
FROM 1:30 - 4:00

RAIN OR SHINE. BRING A BLANKET OR
LAWN CHAIR AND DRESS FOR OUTDOORS

8348 LONGWOODS ROAD (MIDDLESEX COUNTY ROAD 2)
SOUTHWEST OF MOUNT BRIDGES (6.5 KM WEST
OF DELAWARE OR 10 KM EAST OF MELBOURNE).

519-261-2420 • INFO@LTVCA.CA



Lower Thamp
Conservation

Re: Conservation Authority Education

Conservation Youth Group Workshops

Workshops are performed at Longwoods Road Conservation Area and LTVCA outreach locations to youth and their leaders. Youth groups work towards badges for various outdoor activities.

Total number from June 1 – July 31, 2015 - 67 (46 in 2014)

Conservation Field Trips for Students

Total number from June 1 – July 31, 2015, 372 students and 97 adult supervisors participated in field trips to Longwoods Road Conservation Area. (310 students and 85 adults in 2014)



Conservation Classroom Programs and Outreach

There were 0 in-class programs conducted from June 1 – July 31, 2015 (26 students and 1 adult in 2014)

Chatham-Kent and Lambton Children's Water Festival

Plans are full speed ahead for the 8th Annual Water Festival held at the C.M. Wilson Conservation Area. This year's festival will be Sept.29, 30 and October 1 with a weather date on October 2. Don Hector, the CK and L Water Festival Coordinator has been working hard fund-raising and preparing for this great event that draws over 1,500 elementary students. High school and community volunteers number over 100 each day to help facilitate the 42 interactive water related centres and multi-media displays. They assist agency staff, ground and surface water experts and other adult volunteers. All activities are linked to the Ontario School Curriculum in ways that help students achieve the desired expectations in Science and Tech, Social Studies, Environment, Math and Physical Ed. Events and Activities are geared to the Grade 4 level. The Festival is design to be hands-on and experiential in order to enhance and personalize learning. One of the goals of attending the Festival is to take the knowledge and newfound respect for water back to their homes, schools and communities.

If you would like to get involved, please let us know!!



Ska-Nah-Doht Village and Museum

Workshops are performed at Ska-Nah-Doht and LTVCA outreach locations for youth and their leaders. Youth groups work towards badges for various outdoor activities.



Ska-Nah-Doht Village Group Workshops

Workshops are performed at Ska-Nah-Doht and LTVCA outreach locations for youth and their leaders. Youth groups work towards badges for various outdoor activities.

Total number from June 1 – July 31, 2015 - 17 (92 in 2014)

Re: Wheatley Two Creeks Association

Minutes of regular meeting held **July 2nd, 2015 Wheatley Legion**

ATTENDANCE: Rick Taves, Ron Haley, Sharon Light, Dave Derbyshire, Pauline Sample, Linda & Lee Pearce, Mike Diesbourg, Lorna Bell, Phil Humphries, Bruce & Marj Jackson.

MINUTES: Moved by Marj sec by Lorna minutes be accepted as printed (Carried)

REPORTS

MEMORIAL GROVES: New bench has been put in place in memory of Milo Coulter. Grove has been mowed.

PROPERTY & EQUIP: Hydro has been installed in the new storage shed and the rest of the battens have been put in place. Discussion on dealing with water laying around big pavilion. To install tile around parimeter of pavilion topped with stone. Moved by Linda sec by Lorna to authorize the property and equipment committee to spend up to \$400. for rental of excavator. (Carried) Discussion on maintenance required on bridges. Lee, Bruce, Mike and Sharon to act as our 'Bridge Assessment' committee to determine the extent of repair for each bridge. There are nine bridges, they will examine each one and prioritize them according to most urgent. Assessment to be done by September 1st. Discussion on low laying areas on trails to be improved by laying down tile or culvert topped with stone.

CONCERTS: First three concerts held in big Pavilion due to inclement weather. Crowds smaller than the norm. Fourth concert cancelled due to extreme wet condition of grounds for parking.

ENVIRONMENTAL AWARENESS: Most of the White pines planted behind stage along creek have either been stolen....simply pulled out and taken or perhaps washed away in the high flood waters.

FINANCIAL: Ron handed out his financial report and concert status report to date. Moved by Linda sec by Marj report be accepted as printed. (Carried)

CORRESPONDENCE: Sent Thank You to Lee Penfold for installing hydro in new storage shed.

OLD BUSINESS: Approx 300 people young and old took part in the 'Trail part' of the South Coast Adventure race at Two Creeks on June 20th
Rick has contacted the Bicycle Club re some safety issues on bicycle trails.....they will look after.

NEW BUSINESS: None

Linda moved for adjournment at 8:30 pm

Re: GM's Report

Since the last Board meeting in June staff have continued to be busy in implementing the Authority's program, as the included reports will attest. Working conditions in and around the Administration building have been particularly challenging but the progress to date is satisfactory and over the coming months we hope to see the parking area taking shape. Interior renovations should be substantially completed by late fall.

A strategic planning session is planned for September 11 and will include most staff. Included in this phase is the development of strategic objectives including success measures, key initiatives and assignment of staff responsibility; all of which will inform the detailed budget preparation for 2016. A final report should be available for the Board's consideration by the October meeting.

A preliminary budget outlook was presented at the August meeting of the Hearings and Personnel & Finance/Executive Committee and is included in this agenda. The outcome of this discussion will enable a preliminary budget to be developed for the October meeting of the Board.

A progress report on the building and parking area upgrades will be presented verbally at the meeting.

RECOMMENDATION: That agenda items 7 (a) through to 7 (i) be received for information.

Re: MNRF review of the Conservation Authorities Act, meeting the needs of Ontarians in a modern context , discussion paper

Memo To: LTVCA Board of Directors
Subject: Conservation Authorities Act Review
From: D. R. Pearson, General Manager

Background:

In October of 2013, Conservation Ontario produced a “white paper” entitled “Watershed Management Futures for Ontario” outlining a number of issues from the challenges facing watershed managers due to changing climate, to the need for clarification around roles, responsibilities, funding and governance. This discussion paper (attached) was widely circulated among provincial ministries, municipalities, environmental organizations and the development industry, and called for the provincial government to take the lead in a broad discussion among stakeholders to address these issues. It was felt that such a discussion would be timely and relevant given the previously released report of the Commission on the Reform of Ontario’s Public Services (2012) which called for modernization and transformational change across the provincial government.

Some initial traction was obtained within the Ontario government among a number of ministries at a senior staff level. Following the election of the Wynne Government in 2014, the Parliamentary Assistant to the Minister of Natural Resources, Eleanor McMahon, revealed in a “mandate letter” from the Premier that the government tasked her to lead a review of the Conservation Authorities Act.

Current Situation:

In July of 2015, the province posted a “Discussion Paper – Conservation Authorities Act – *A review of the roles, responsibilities, funding and governance of conservation authorities under the Conservation Authorities Act*” on the Environmental Bill of Rights Registry, EBR Registry number 012-4509. The posting is for 90 days, the deadline for providing comments being October 19, 2015. Conservation Ontario has prepared a preliminary response to a series of specific questions which are organized under three themes: Governance; Funding Mechanisms; and Roles and Responsibilities. These themes are consistent with the issues raised in the Conservation Ontario whitepaper and are critical considerations to enable Conservation Authorities to continue to be effective agents of environmental management for the future. Conservation Ontario will also be coordinating an “engagement strategy” to ensure that as many stakeholders as possible are reached and encouraged to provide their comments. Individual Conservation Authorities have the opportunity to submit individual responses as well as contribute to the Conservation Ontario submission. LTVCA staff have provided initial comments to the Conservation Ontario response and also participate on the CA Act Review Working Group, which includes a number of Conservation Authority General Managers.

Discussion:

Conservation Ontario Council has maintained a list of priority legislative amendments to the Conservation Authorities Act that are largely administrative in nature, including the need to amend the maximum term of member appointments (currently 3 years) to be consistent with the municipal

election cycle. Other more substantive amendments involve amendments to the regulation made under Section 28, the “**Regulation of development, interference with wetlands and alterations to shorelines and watercourses**”, to provide injunctive powers and to resolve an important distinction in the current regulation as to the type of wetlands subject to the regulation.

Additional questions for consideration under “governance” may include qualification for appointment, eg. elected vs non-elected municipal representatives; provincial appointments, and accountability, an often controversial subject in terms of members’ fiduciary responsibility to the CA Board vs their appointing municipality. Further, the yet to be proclaimed Ontario Non-profit Corporations Act (ONCA) applies in its current form to Conservation Authorities who would be required to pass by-laws pursuant to ONCA in addition to administrative regulations under Section 30 of the CA Act.

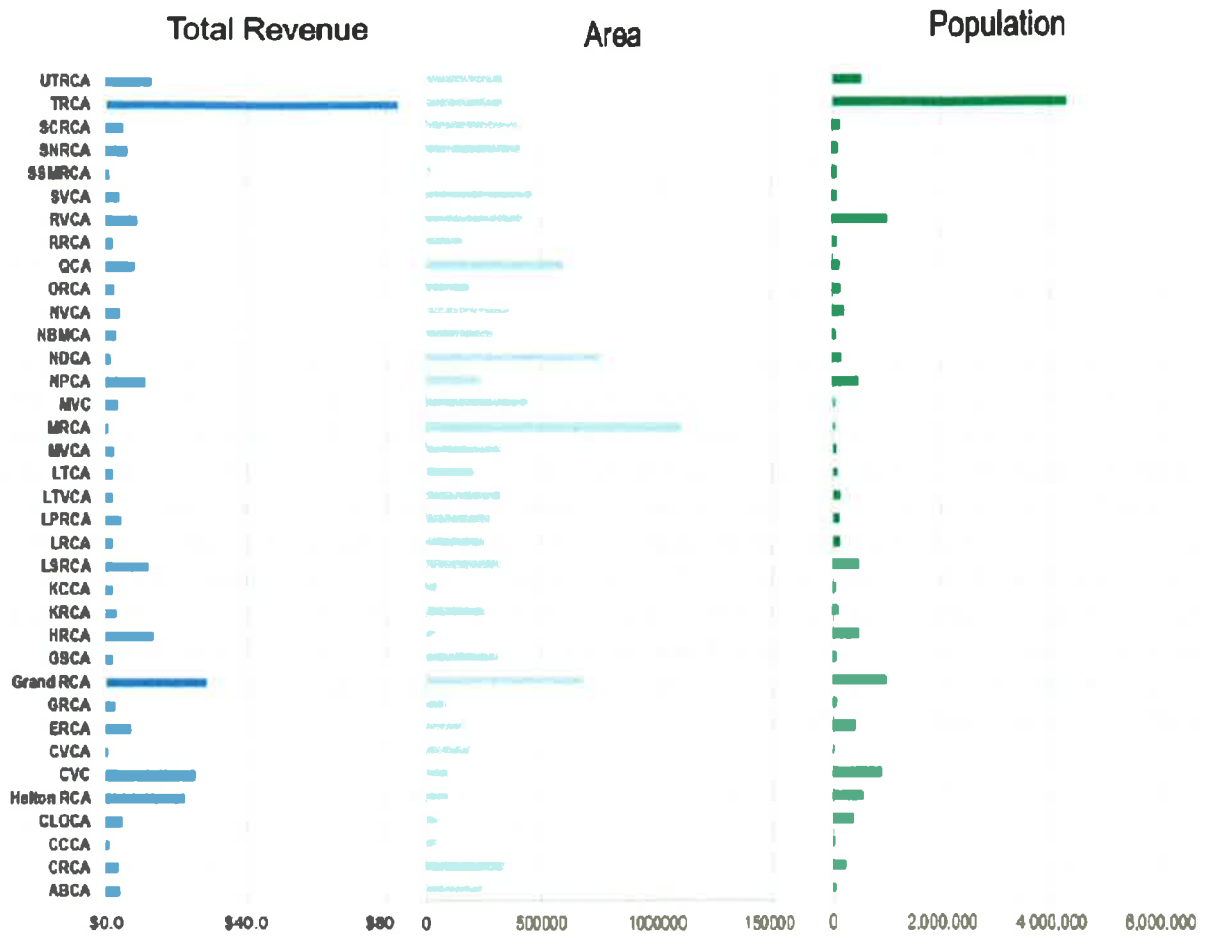
Responsibility for oversight of the CA program is likely to be a vigorously debated question, as legislative and policy changes over the past two decades have substantially diminished provincial oversight; rather putting more responsibility for oversight on the member municipalities. This has resulted in some issues relating to consistency and perceived accountability given the Ontario Minister of Natural Resources and Forestry has responsibility for the legislation, but has limited powers to ensure compliance. Coupled with this legacy is the contemporary reality that the Conservation Authorities serve the interests of multiple ministries including the Ministry of Environment and Climate Change (Clean Water Act, ground and surface water monitoring), the Ministry of Municipal Affairs (Provincial Policy Statement, Greenbelt, Oakridges Moraine, Niagara Escarpment, Flood and Hazard Policy, Wetlands and Natural Heritage) as well as the interests of Tourism, Culture and Recreation. It is expected that the discussion around Roles and Responsibilities will be substantive.

Finally, the question of funding is an important and enduring topic in provincial/municipal relations. Since 1997 the burden of funding has largely fallen to the municipalities within a watershed, with the result that huge inequities exist which directly impact a Conservation Authority’s capacity to implement an adequate program. The attached table, borrowed from the province’s discussion paper, illustrates the variation in financial capacity, area and population. Bluntly put, there is a need for the province to reinvest in the Conservation Authorities program to restore capacity and create some level of equity, based on need.

Recommendation:

That the LTVCA Board support the need for the Province of Ontario to amend Section 28 of the Conservation Authorities Act to remove ambiguities concerning wetlands and to enable the issuance of “stop work orders” to improve the efficiency and effectiveness of the regulation; and that the province restore a funding mechanism which addresses the current inequities in CA financial capacity; and that the provincial government consider the establishment of an appropriate accountability framework at the provincial level which recognizes the multi-ministry nature of the Authorities’ program and provides adequate legislative, policy and financial support for this essential program; and that these points be circulated to the member municipalities for their consideration and support.

Table 1: Diversity of Conservation Authorities' Revenue, Area and Population¹⁸



¹⁸ Revenues shown in \$Millions, Areas in Hectares, Population in millions

* Taken from Conservation Authorities Act Discussion Paper, Ontario Environmental Bill of Rights
 Registry number 012-4509: www.ontario.ca/EBR

Re: 2016 Budget Outlook

Memo To: LTVCA Board of Directors; Hearings and Personnel/Executive Committee

Subject: 2016 Preliminary Budget

From: D. R. Pearson, General Manager

Background:

Our Strategic Planning process has confirmed that a major challenge facing the LTVCA is its large geographic area and relatively few staff, impacting capacity to undertake needed services and program delivery. The LTVCA has not recovered from the impact of the loss of provincial government funding in the late 1990's, and has been struggling to maintain a viable program since that time. While the final outcomes of the Strategic Planning Process will not be available until October, it is necessary to be proactive due to the timing of the municipal budget processes, including the City of London which is looking to approve a multi-year budget to coincide with the term of Council.

In recent years, the Authority has accommodated increases in its fixed costs through nominal adjustments to the Municipal Levy, currently representing approximately half of the LTVCA's total revenue. The 2015 budget reflects a doubling of the investment by the Municipality of Chatham-Kent in funding the "Greening Partnership." While this has increased the capacity of the Authority to offer "stewardship services" to landowners within Chatham-Kent, there is only very limited capacity to meet the demand for similar services in the rest of the watershed. Over the past decade, the Source Water Protection program has provided additional capacity for technical support in areas such as Geographic Information Systems (GIS), which has become an important if not critical tool for management and analysis of the type of information and data that is an integral part of our programs. However, the level of funding has diminished to roughly \$25,000 per year and covers only a portion of our human resources requirements.

At the present time, the Provincial Government has released a discussion paper that contemplates a review of the Conservation Authorities Act, focussing on Roles and Responsibilities; Funding; and Governance. One of the primary concerns expressed by the Conservation Authorities and Municipalities alike is the need for increased provincial investment to shift the funding burden from the municipalities and to address the funding inequity that arises from the huge variation in assessment from watershed to watershed. Any changes resulting from this review are likely to be gradual and implemented over the longer term. In the meantime, the LTVCA Board is being asked to consider a significant increase in municipal funding for the 2016 budget to address a number of issues.

Current Situation:

Some examples of deficiencies in capacity are as follows:

- The Authority is able to undertake only very limited stewardship actions in the eastern part of the watershed (Elgin and Middlesex Counties) as field staff are focussed on management of Authority lands and Conservation Areas; environmental education; and first nation's studies.
- In accordance with the Provincial Policy Statement (PPS) municipalities are required to ensure that decisions are consistent with the PPS for Natural Heritage. Elgin County municipalities have identified a need for expertise in this area as it is not available in house. Many Conservation

Authorities are able to offer this service to their member municipalities, creating operational efficiencies.

- Much of the Authorities program is focussed in the Municipality of Chatham-Kent. This is quite natural considering the history of flooding in C-K; the LTVCA's responsibility for operating a flood monitoring and warning system and operating the flood control infrastructure. Also, since 2007 the LTVCA has participated in a "Greening Partnership" with C-K, which as a result of its expansion in 2014 has enabled the deployment of 4 full time staff dedicated to stewardship and outreach actions within the municipality. In addition, under an arrangement with the Essex Region Conservation Authority (ERCA) the LTVCA has a full time agronomist working on nutrient reduction strategies throughout the watershed, in close conjunction with the Greening Program.
- Our chronic lack of capacity is reflected in the lack of surface water quality monitoring data, or at least data that is dense enough to support focussed nutrient reduction efforts which are inevitably required given the condition of the western basin of Lake Erie and recently proposed phosphorus reduction targets from Environment Canada.
- Finally, the condition of many of the Conservation Authority's 25 properties is simply put, not up to standard from the point of view of public safety, and the ability to attract patrons and revenue. Further, limited staff capacity to monitor public use is putting the Authority at risk.

Discussion:

Management has, due to a number of recent retirements, coupled with a financial investment authorized by the Board, been able to boost staff capacity in a significant way over the past two years. A full-time regulations enforcement position was created to support a growing workload relating to development activity affecting the Lake Erie Shoreline, the Thames River and the vast network of municipal drains. Within administration we have recruited a financial professional and an office administration specialist who have identified cost savings while boosting the capacity of the office to support operating programs. Much has been accomplished already, but there is much more to be done.

An area of prime concern for the Authority is its limited capacity in the area of its primary responsibility, flood control. This program falls under the responsibility of the Water Management/GIS specialist. In addition to those two functions, this position by virtue of its expertise is also responsible for managing the Authority's IT and network, a full time responsibility in itself in similar sized organizations. Without being too alarmist, the Authority's flood control system is literally a one person operation, augmented by other staff with limited technical credentials to support a prolonged event or to step in should the principal staff person become incapacitated.

In the short term we have undertaken to have some cross-training with other CAs in particular the Upper Thames River Conservation Authority (UTRCA) with whom we already share an automated data logging and web publishing system. In spite of this, it is essential to add a full-time position to support the water management program and provide a level of redundancy in our flood response capacity.

In addition to the flood control program, it is obvious that our Conservation Area operations need to be put under a centralized management structure to provide consistent direction in terms of development, maintenance and operations, and to maximize operational efficiency and revenue generation. Current staff are able to undertake maintenance activities but are not equipped to plan, implement and manage for our current and future needs.

Finally, the Authority and its member municipalities would benefit greatly from the addition of a staff person with expertise in natural heritage and aquatic biology, to support stewardship efforts throughout the watershed. This position would also support watershed monitoring and reporting requirements.

Recommendation:

It is recommended that the preliminary budget for 2016 support the creation of 3 new positions (water management; ecology/biology; conservation areas manager). It is further recommended that these positions be financed by a targeted levy increase which would seek to move all municipalities closer to their ratio of the Current Value Assessment of each within the watershed. At the present time, Chatham-Kent is contributing an additional \$120,000 annually in direct benefiting levy for flood control (Indian and McGregor Creek system operations); plus \$308,000 toward the Greening Partnership. It is proposed that an equivalent "greening partnership" levy be collected from all municipalities except C-K, which would yield an additional \$218,859 annually. The attached tables and graphs illustrate this imbalance and the impact of implementing a supplementary levy on these nine municipalities.

Table 1 – Comparison of 2015 Levy to Proposed Levy

LOWER THAMES VALLEY CONSERVATION AUTHORITY 2015 LEVY								
	Current Value Assessment (Modified CVA)	% of Levy	C-K Greening Partnership	Direct Special Benefit Levy 2015 excl C-K Greening	Total Municipal Levy 2015 using CVA (Exc. DB Levy & C-K Greening)	Total Municipal Revenue	Population within	Per Capita Levy
Chatham-Kent	7,100,281,478	58.4597%	\$308,000.00	155,107	483,025	946,131.32	64,223	\$14.73
City of London	1,388,926,112	11.4356%		5,889	94,487	100,376.51	9,487	\$10.58
Dutton/Dunwich	401,014,973	3.3017%		1,700	27,281	28,981.01	3,510	\$8.26
West Elgin	526,807,812	4.3374%		2,234	35,838	38,071.95	4,690	\$8.12
Strathroy-Caradoc	694,521,335	5.7183%		2,945	47,248	50,192.47	5,273	\$9.52
Middlesex Centre	188,636,672	1.5531%		800	12,833	13,632.61	1,048	\$13.01
Southwest-Middlesex	350,017,242	2.8818%		1,484	23,811	25,295.45	3,175	\$7.97
Town of Leamington	290,525,298	2.3920%		1,232	19,764	20,996.02	2,320	\$9.05
Southwold	151,838,176	1.2501%		644	10,329	10,973.22	877	\$12.51
Town of Lakeshore	1,053,032,827	8.6701%		5,965	71,637	77,601.79	7,474	\$10.38
TOTAL	12,145,601,925	100%	\$308,000.00	\$178,000	\$826,252	1,312,252.34	102,077	\$12.86

LOWER THAMES VALLEY CONSERVATION AUTHORITY 2015 LEVY ADJUSTED								
		% of Increase to Match C-K Greening Partnership			Proposed Levy	Population within	Per Capita Levy	
Chatham-Kent			\$308,000.00	\$155,106.74	\$483,024.57	\$946,131.32	64,223	\$14.73
City of London	1,388,926,112	27.53%	\$60,249.60	\$5,889.35	\$94,487.16	\$160,626.11	9,487	\$16.93
Dutton/Dunwich	401,014,973	7.95%	\$17,395.45	\$1,700.39	\$27,280.62	\$46,376.46	3,510	\$13.21
West Elgin	526,807,812	10.44%	\$22,852.16	\$2,233.78	\$35,838.17	\$60,924.11	4,690	\$12.99
Strathroy-Caradoc	694,521,335	13.77%	\$30,127.33	\$2,944.92	\$47,247.55	\$80,319.79	5,273	\$15.23
Middlesex Centre	188,636,672	3.74%	\$8,182.78	\$799.86	\$12,832.75	\$21,815.40	1,048	\$20.82
Southwest-Middlesex	350,017,242	6.94%	\$15,183.24	\$1,484.15	\$23,811.30	\$40,478.69	3,175	\$12.75
Town of Leamington	290,525,298	5.76%	\$12,602.57	\$1,231.89	\$19,764.13	\$33,598.58	2,320	\$14.48
Southwold	151,838,176	3.01%	\$6,586.52	\$643.83	\$10,329.39	\$17,559.74	877	\$20.02
Town of Lakeshore	1,053,032,827	20.87%	\$45,679.03	\$5,965.09	\$71,636.70	\$123,280.82	7,474	\$16.49
	5,045,320,447	100%	\$218,859	\$178,000.00	826,252.34	\$1,531,111	102,077	\$15.00
			\$526,858.67					

NOTE 308,000/526,858.67=58.4597%

Figure 1 – Proposed Levy by Category

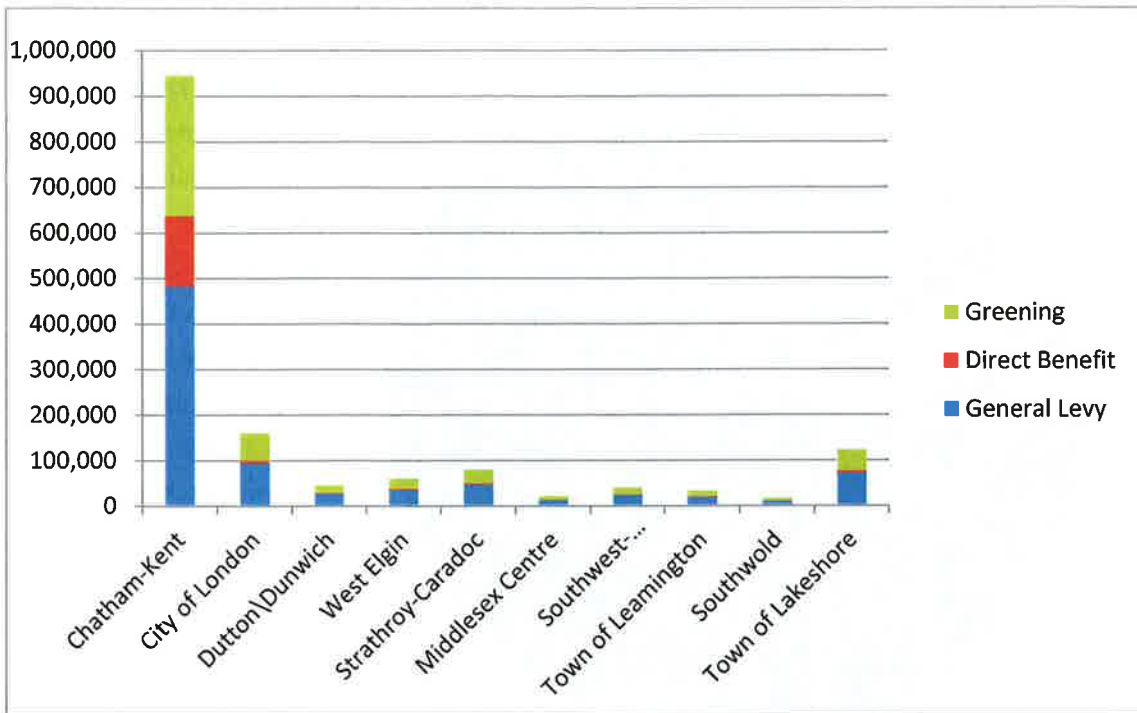


Figure 2 – General Levy Apportionment

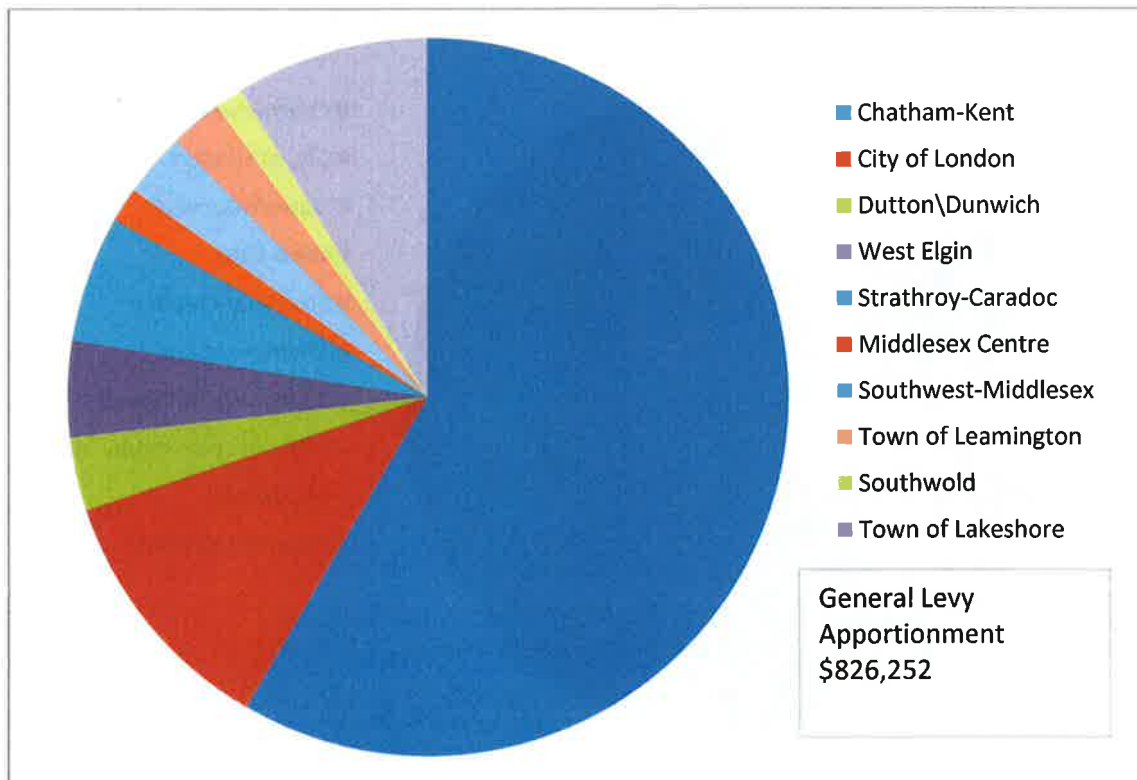


Figure 3 – Total Municipal Funding 2015 \$1,312,252

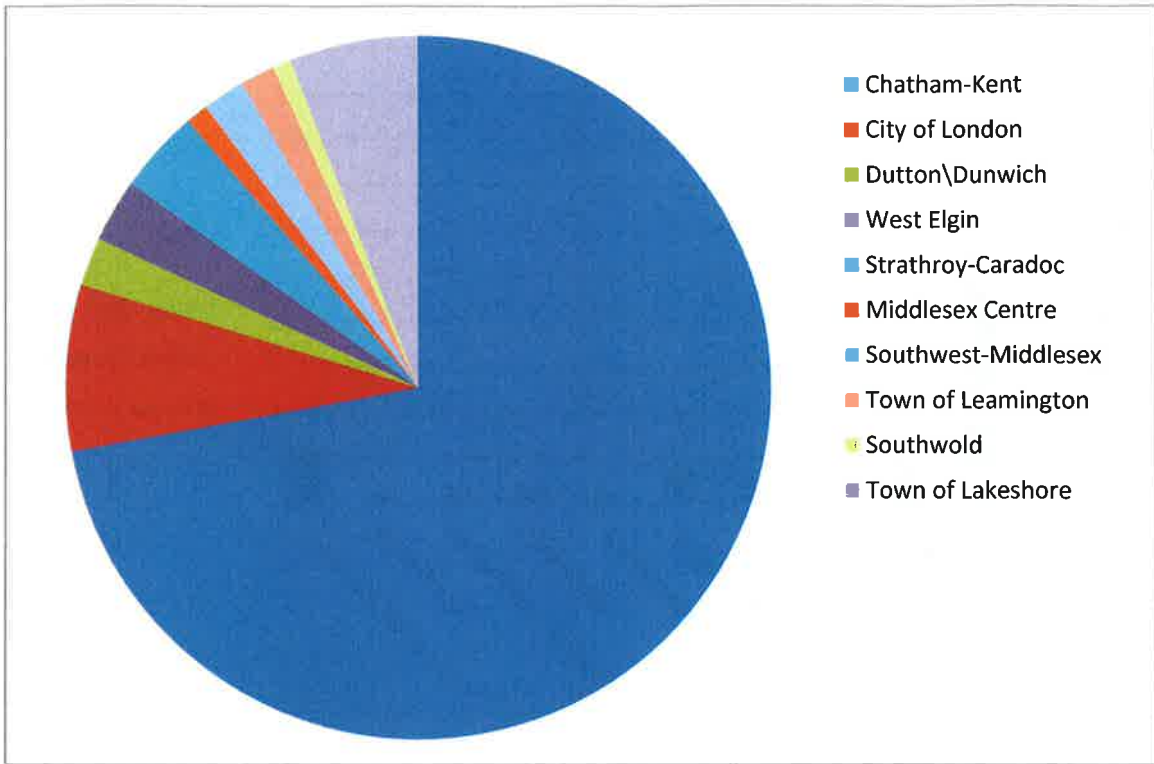


Figure 4 – Total Municipal Funding with Match to C-K Greening \$1,531,111

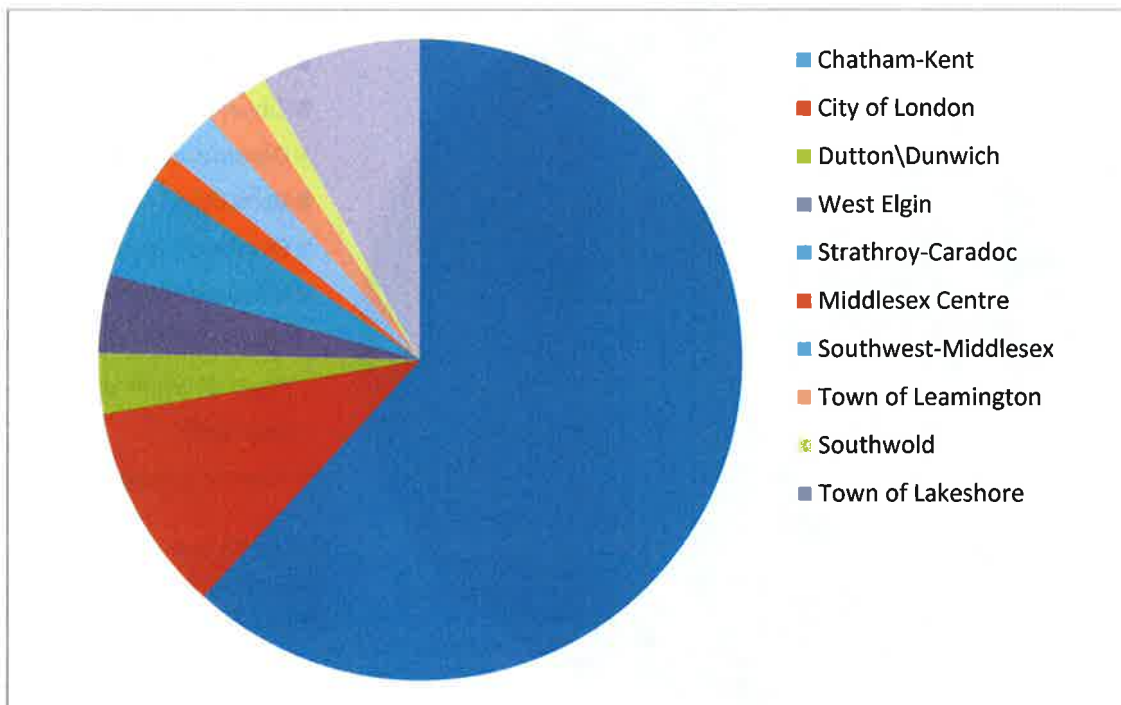
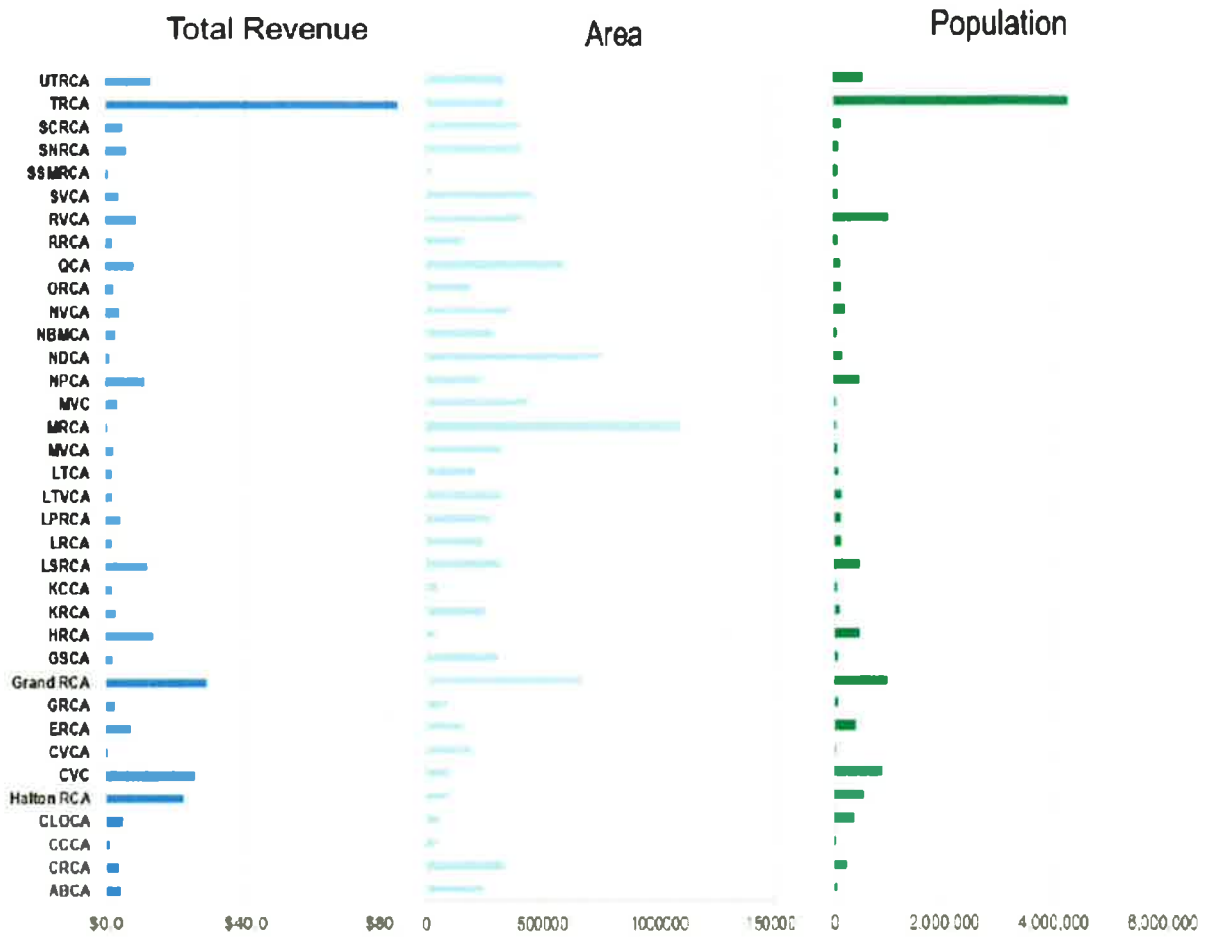


Table 2 – Comparison of Conservation Authorities’ Revenue, Area and Population*

Table 1: Diversity of Conservation Authorities’ Revenue, Area and Population¹⁸



¹⁸ Revenues shown in \$Millions, Areas in Hectares, Population in millions

* Taken from Conservation Authorities Act Discussion Paper, Ontario Environmental Bill of Rights Registry number 012-4509: www.ontario.ca/EBR

