



Board of Directors - Notice of Meeting
December 12, 2019 Time: 10:00 am
Administration Office, Strathroy

Tentative Agenda

1. Chair's Remarks
2. Adoption of the Agenda
3. Declaration of Pecuniary Interests
4. Board of Directors November 14, 2019 Minutes
5. Hearing
6. Reconvene as Board of Directors
7. General Manager's Report
 - 7.1 GM's Report
8. Chair & Conservation Ontario Report
 - 8.1 Verbal Summary of CO December 9, 2019 Meeting
9. Business Arising from last meeting
10. Conservation Area Reports
 - 10.1 Conservation Areas Update
11. Water Resources Reports
 - 11.1 Current Watershed Conditions and Great Lakes Levels
 - 11.2 Water and Erosion Control Projects
12. Biology Reports
 - 12.1 Black Lighting for Insects at Moore
13. Planning and Regulations Report
 - 13.1 Planning Activity Summary Report
 - 13.2 Regulations Activity Summary Report
 - 13.3 Pre-Consultation and Processing Fee Report
 - 13.4 Drain Enclosure Policy Report
 - 13.5 Plan Input & Review Discussion with Member Municipal CAOs (Handout)
14. Communications Reports
 - 14.1 St. Clair River AOC Report
15. Finance Reports
 - 15.1 Joint Health & Safety Committee September 25, 2019 Minutes
 - 15.2 Revenue and Expense Summary
 - 15.3 November 2019 Disbursements
 - 15.4 2019 General Levy Summary
 - 15.5 Investment Reports
 - 15.6 Verbal Summary of Comments regarding the 2020 Draft Budget
 - 15.7 2020 Proposed Budget and Non-Matching General Levy
 - 15.8 2020 Proposed Budget and Matching General Levy
 - 15.9 Disposal of Nonessential and Surplus Equipment
16. In-Camera
17. New Business
18. Adjournment

Please contact Ashley (519-245-3710 x 200 or e-mail Afletcher@scrca.on.ca) at the Administration Office by December 9, 2019, if you are unable to attend.

December 12, 2019

Board of Directors Proposed Resolutions

1. Chair's Remarks
2. **Moved by:** **Seconded by:**
That the Board of Directors adopts the agenda for the meeting as presented.
3. It is requested that each Director declare a conflict of interest at the appropriate time, on any item within this agenda in that a Director may have pecuniary interest.
- 4.1 **Moved by:** **Seconded by:**
That the minutes of the Board of Directors meeting, held November 14, 2019, be approved as distributed.
- 5.1 **Moved by:** **Seconded by:**
That the Board of Directors adjourn the regular Board meeting at _____ p.m. and convene as a Hearing Board pursuant to Ontario Regulation 171/06 – “Development, Interference with Wetlands and Alterations to Shorelines and Watercourses” Regulation to consider Application No. R#2019-037 from the Municipality of Southwest Middlesex.
- 5.2 **Moved by:** **Seconded by:**
It is requested that each Director declare a conflict of interest on any item within the Hearing agenda in that a Director may have pecuniary interest.
- 5.3 **Moved by:** **Seconded by:**
That the Hearing Board move in-camera at _____ to deliberate information provided regarding Application #2019-037 with the General Manager remaining.
- 5.4 **Moved by:** **Seconded by:**
That the Hearing Board rise and report at _____ a.m.
- 5.5 **Moved by:** **Seconded by:**
That the Hearing Board in accordance with the requirements of the Conservation Authorities Act, held a hearing for the Municipality of Southwest Middlesex, Application No. R#2019-037 on December 12, 2019 and hereby denies the application and directs staff to issue a Notice of Decision accompanied by the required information regarding the right to appeal.

OR

That the Hearing Board in accordance with the requirements of the Conservation Authorities Act, held a hearing for the Municipality of Southwest Middlesex, Application No. R#2019-037 on December 12, 2019 and hereby approves the application and directs staff to issue a Notice of Decision accompanied by the required conditions.

OR

That the Hearing Board in accordance with the requirements of the Conservation Authorities Act, held a hearing regarding the Municipality of Southwest Middlesex, Application No. R#2019-037 on December 12, 2019 and hereby defers the application and directs staff to provide additional information at an Executive Committee meeting and issue a Notice of Decision accompanied by the required information regarding the further review of this appeal.

- 6.1 Moved By:** **Seconded by:**
That the Hearing Board adjourns the Hearing and reconvenes as a Board the Board of Directors at _____ a.m.
- 7.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the General Manager's report, dated December 3, 2019.
- 8.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the verbal report from the Conservation Ontario Council meeting of December 10, 2019.
- 9.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the updates on business arising from the November 14, 2019 meeting.
- 10.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the Conservation Areas update, dated November 30, 2019.
- 11.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the report dated November 30, 2019 on the current watershed conditions and Great Lakes water levels.
- 11.2 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the report on Water and Erosion Projects dated November 26, 2019.

- 12.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the report dated November 27, 2019 on Black Lighting for Insects at Moore Wildlife Area, Lambton County, 2019.
- 13.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the St. Clair Region Conservation Authority's monthly Planning Activity Summary Report for the month of October, 2019.
- 13.2 Moved by:** **Seconded by:**
That the Board of Directors acknowledges and concurs with the Regulations Activity Summary Report on "Development, Interference with Wetlands & Alterations to Shorelines & Watercourses" Regulations (Ontario Regulation 171/06) for the month of October, 2019.
- 13.3 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the report dated December 3, 2019 on SCRCA Pre-Consultation and Processing Fees.
- 13.4 Moved By:** **Seconded by:**
That the Board of Directors acknowledges the report on SCRCA Drain Enclosure Policy dated December 3, 2019, and direct staff to consult with Drainage Superintendents and our member Municipalities for comments on the policy.
- 13.5 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the report on Plan Input and Review Discussion with Member Municipality CAO's, and further acknowledges the following highlights from these discussions as described in the report handed out in today's meeting.
- 14.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the report dated November 21, 2019 regarding the St. Clair River Area of Concern.
- 15.1 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the September 25, 2019 meeting minutes of the Joint Health and Safety Committee.
- 15.2 Moved by:** **Seconded by:**
That the Board of Directors acknowledges the revenue and expenditure report to October 31, 2019, as it relates to the budget.
- 15.3 Moved by:** **Seconded by:**
That the Board of Directors approves the November 2019 disbursements as presented in the amount of \$315,082.73.

15.4 Moved by: **Seconded by:**
That the Board of Directors acknowledges the status report on the 2019 general levy receipts to date.

15.5 Moved by: **Seconded by:**
That the Board of Directors acknowledges the investment reports to October 31, 2019

15.6 Moved by: **Seconded by:**
That the Board of Directors acknowledges the verbal summary of comments received to date on the 2020 Draft Budget.

15.7 Moved by: **Seconded by:**
That the Board of Directors approves the 2020 budget of \$8,570,407 with a non-matching general levy of \$908,926 with all member municipalities deemed as benefitting and further that the levy be apportioned using the Modified Current Value Assessment of each Municipality within the Authority's area of jurisdiction.
Weighted Motion

15.8 Moved by: **Seconded by:**
That the Board of Directors approves the 2020 budget of \$8,570,407 with a municipal matching general levy of \$161,000 including finalized Modified Current Value Assessment values, updates to specific projects and municipal comments received to date.

15.9 Moved by: **Seconded by:**
That the Board of Directors acknowledges the report dated November 26, 2019 regarding the disposal of nonessential and surplus equipment and approves the disposal method as outlined.

16.1 Moved by: **Seconded by:**
That the Board of Directors move in-camera at _____ to discuss Conservation Awards and personnel information with the General Manager, Manager of Communications, Director of Finance and Administrative Assistant/ Board Coordinator remaining.

16.2 Moved by: **Seconded by:**
That the Board of Directors rise and report at _____.

17. New Business

18. Moved by: **Seconded by:**
That the meeting be adjourned.



Board of Directors Meeting Minutes

Date: November 14, 2019 Time: 1:00 p.m.
Administration Office, Strathroy

Directors Present: Alan Broad, John Brennan, Pat Brown, Andy Bruziewicz, Terry Burrell, Joe Faas, Chair; Frank Kennes, Brad Loosley, Betty Ann MacKinnon, Kevin Marriott, Mark McGill, Dan McMillan, Steve Miller, Frank Nemcek, Ron Schenk, Mike Stark

Regrets: Larry Gordon, Vice-Chair; Carmen McGregor, Laurie Scott, Jerry Westgate

Staff Present: Donna Blue, Manager of Communications; Erin Carroll, Director of Biology; Dallas Cundick, Manager of Planning and Regulations; Chris Durand, Manager of IT/ GIS; Ashley Fletcher, Administrative Assistant/ Board Coordinator; Sarah Hume, Payroll/ Accounting Clerk; Brian McDougall, General Manager; Tim Payne, Manager of Forestry; Tracy Prince, Director of Finance; Girish Sankar, Director of Water Resources; Steve Shaw, Manager of Conservation Services; Greg Wilcox, Manager of Conservation Areas

The Chair welcomed everyone to the meeting. It was requested that each Director declare a conflict of interest at the appropriate time, on any item within this agenda in that a Director may have pecuniary interest.

BD-19-153

Brown – Burrell

“That the Board of Directors adopts the agenda as presented”

CARRIED

It is requested that each Director declare a conflict of interest at the appropriate time, on any item within this agenda in that a Director may have pecuniary interest.

BD-19-154

Marriott – MacKinnon

“That the minutes of the Board of Directors meeting, held October 17, 2019, be approved as distributed.”

CARRIED

Meeting with Minister of Environment, Conservation & Parks Yurek

- A meeting with Ministry of Environment, Conservation and Parks (MECP) was held on the morning of Tuesday, November 5th
- Chair Faas, Vice Chair Gordon and Brian McDougall attended the meeting

- Holly Fullager (meeting coordinator) and Nicholas Cunha from the Minister's Office, Rebecca Teare from the Deputy Minister's Office, Ling Mark and Jessica Isaac from Great Lakes and Inland Waters Branch all attended the meeting. Representatives of both MPP McNaughton and MPP Bailey participated via conference call
- MECP staff were welcoming and engaged, and were very genuine in their appreciation of our time and information.
- Unfortunately, as of Monday November 4th, the duration of each Authority's meeting with MECP were reduce from 90 minutes to 60 minutes – we were not informed of this change until the meeting was more than half over
- We walked, then skipped through our presentation with our Chair and Vice highlighting key messages and confirming municipal support for the Authority and our programs
- Several questions were asked and the Chair, Vice Chair and General Manager all conveyed the information contained in a pre-prepared list.
- The Minister's staff confirmed that this is preliminary consultation and that further consultation will be coming this winter
- To close the meeting, we were asked if we wished to provide comment on More Homes, More Choices and the Ministers correspondence during the summer
- We brought forward our concerns regarding "mandatory/core programs", the definition of each program area and what programs fall within the categories, and followed it up with explanations of the source(s) of funding for each of our program areas
- Staff thanked us for coming and for the information provided. They look forward to further discussion as consultations continues
- Although the document was prepared specifically for this meeting, the Chair, Vice Chair, General Manager and staff see this document as a valuable tool in conveying information with our municipal partners. Appreciation to Donna Blue, Manager of Communications for her efforts in preparing the presentation, which was well-received by Ministry staff.
- It may even provide some clarity to our budget discussions and may be used going forward as a base document for annual planning and reporting documents as well as even future budgets
- At the conclusion of the meeting, digital and print copies of the following were provided to the Ministry staff: 2018 Annual Report, 2018 Audited Financial Statements, 2016 Strategic Plan – A Way Forward, Watershed Report Card Report and Summary, Education Program and Campground Brochures.
- Minutes of the meeting will be circulated and will include an offer to provide comment
- Further consultation, potentially this winter, will be important to determine the future relationship between Conservation Authorities and the Provincial Government

The Presentation document provided for the meeting with the MECP was reviewed.

“Mandatory/ Core” programs

- This document does not have the same content as the chart presented at the October meeting which outlined the “Mandatory / Core” programs of the Province, Municipalities and the Conservation Authority – however, it does answer some of the questions that could have been answered by the requested updates to that table
- The updated table will be provided prior to the December meeting as requested

Director’s Comments:

Enquiries were made whether a meeting has been granted with local MPP’s. It is thought that more information from the Minister’s office is needed before meetings can occur. Brian McDougall will continue to make this request. The Rural Ontario Municipal Association (ROMA) annual conference in January may offer an opportunity to reach MPPs.

Directors brought forth concerns regarding the perception of the Conservation Authority by member Municipalities. The General Manager acknowledged these concerns and responded that he and Chair, Joe Faas have scheduled a meeting to discuss relationship building and the forming of a memorandum of understanding for a way forward. A positive start has been made with Planning Departments across the watershed and customer service is being improved by the recent addition of a Planning Clerk.

Bd-19-155

Schenk – Stark

“That the Board of Directors acknowledges the General Manager’s report, dated November 6, 2019.”

CARRIED

The report on Business Arising from the October 17, 2019 Board of Directors Meeting was reviewed.

BD-19-156

Miller – McMillan

“That the Board of Directors acknowledges the updates on business arising from the October 17, 2019 Board of Directors meeting.”

CARRIED

Conservation Area Fee Increases

Fee increases are a result of increasing staffing costs, maintenance, park upgrades, and general cost increases. Fee increases are also required to ensure financial reserves are maintained at levels sufficient to undertake large capitals expenditures (septic system updates, road improvements, etc.) when required. With the proposed

increases our rates remain at or below most local private and regional Conservation Authority campgrounds.

Summary of Significant Proposed Changes to Conservation Area Fees

Several changes to the Conservation Area Fees have been proposed for the 2020 season. Below is a summary of the significant changes:

1. Seasonal camping season shortened (April 25, 2020 – October 12, 2020)
 - Previously April 15 – April 15 the following year
 - Seasonal camping permit now aligns with open season for the park
 - Campers who do not wish to remain in the park for the following year will be required to vacate at the end of the season
 - Previously, campers could remain on-site until the following April, leaving staff scrambling to repair sites and fill them when campers vacated in the Spring
 - With a paid deposit for the following season, trailers can remain on-site through the winter
2. A \$200 non-refundable deposit is required by Thanksgiving 2020 to reserve site for 2021
 - Will allow staff to better plan for the following season
3. Change from \$60 Weekends to Off-Peak pricing
 - 60 buck weekends were introduced when the parks had very low occupancy outside of July/ August and long weekends
 - Very successful promotion that has filled the parks most weekends during this slower season
 - Change to off-peak pricing will allow campers to take advantage of reduced rates 7 days/week
 - Allow those who can camp mid-week to do so, freeing up sites on the weekends
 - Encourage campers to stay more than 2 nights during off-peak
4. Increase to \$13 reservation fee
 - Previously the reservation fee was \$8
 - \$13 is comparable to other Conservation Authority campgrounds and provincial parks
 - Increase will offset the costs of CAMIS (on-line reservation system launching in January of 2020)
5. Removing swimming passes from the fee schedule
 - Almost no sales annually
 - Day use visitors will still have access to the pool when it is open (regular day use fees apply)

A comparison of camping fees from neighbouring Conservation Authorities and private campgrounds was reviewed.

BD-19-157

Marriott – Nemcek

“That the Board of Directors acknowledges the report dated October 30, 2019 regarding the proposed 2020 Conservation Area fees.”

CARRIED

SCRCA owns lands that make up 15 conservation areas. Of these, three operate as campgrounds, and twelve are day use areas. These lands have been acquired for a number of reasons, mainly flood protection, recreation, and to protect significant environmental features. Properties acquired for flood protection are used for parks or other recreational purposes where feasible.

Flood Protection - In order to protect against flooding, Conservation Authorities have constructed and maintained protective infrastructure such as dams and dykes or purchased lands located in hazardous areas. In the past, both the provincial and federal governments have contributed to these projects. (Conservation Ontario)

From the SCRCA Watershed Plan Background Report: Recreation Land Management (1984):

3.0 Program Direction

The revised Conservation Authorities Act of 1981 sets out that the Authority has the mandate to use lands owned or controlled by the Authority for park or other recreational purposes.

3.1 Identification and Rationale

Properties managed under the Conservation and Recreation Land Management Program were in most cases, acquired under the Water Management Program and then subsequently utilized for recreational purposes. Areas such as Melwood and Highland Glen were specifically purchased for their recreation potential.

Under the Conservation Authorities Act, R.S.O. 1990, c. C.27, any lands owned by a Conservation Authority are governed by the Province. Below is the section of the Act that addresses lands:

Approval of Minister

S.21 (2) If the Minister has made a grant to an authority under section 39 in respect of land, the authority shall not sell, lease or otherwise dispose of the land under clause (1) (c) without the approval of the Minister except if,

- (a) The disposition is for provincial or municipal infrastructure and utility purposes;
- (b) The province, the provincial agency, board or commission affected by the disposition or the municipal government, agency, board or commission affected by the disposition has approved it; and
- (c) The authority informs the Minister of the disposition. 2010, c. 16, Sched. 10, s. 1

Terms and conditions

(3) The Minister may impose terms and conditions on an approval given under subsection (2), including a condition that the authority pay a specified share of the proceeds of the disposition to the Minister. 1996, c. 1, Sched. M, s. 44 (3).

A summary of properties and their size, use and environmental features/ hazards was reviewed.

All 3 campgrounds contain a combination of floodplain, Provincially Significant Wetlands (PSW), and woodlands. Campground lands were acquired through government funding and donation. The campgrounds are financially self-sufficient and employ approximately 30 full-time, part-time, or seasonal staff.

All properties still provide the function of either flood protection or recreation. All properties, with the exception of CJ McEwen were believed to have been purchased with at least some provincial funds. The sale of lands are subject to the approval of the Minister and proceeds may be subject to terms and conditions. At this time, staff have not identified surplus conservation area lands.

Director's Comments:

Directors clarified that the original intent of the request for information on surplus properties was to include a summary and justification of surplus buildings and structures on CA operated lands. General Manager Brian McDougall responded that master plans are being drafted for conservation areas, starting with Coldstream Conservation Area, which holds multiple facilities that are no longer in use or needed. This management plan will be used as a template for other Conservation lands. Staff will consult with Municipalities on these plans and will include any surplus buildings/ structures identified.

BD-19-158

Bruzewicz – Brown

“That the Board of Directors acknowledges the report dated November 1, 2019 regarding Conservation Area surplus lands, where no lands have been identified as surplus through this initial review.”

CARRIED

The McKeough Upstream lands were acquired through expropriation for the purpose of flooding during the operation of the W. Darcy McKeough Dam. At the time of construction, landowners upstream were given the option to allow a flood easement on their land with a one-time payment, sell the portion of their land that will be flooded, or sell the entire property.

Therefore, when viewing the location map there are gaps between the lands that the SCRCA owns, based on the decision of the owner at the time.

The McKeough Dam and floodway were constructed as a joint project with the Province, Municipalities, and the SCRCA. The Province contributed 90% to 100% of the funds to purchase the easements and/or lands.

Under the Conservation Authorities Act, R.S.O. 1990, c. C.27, any lands owned by a Conservation Authority are governed by the Province. Below is the section of the Act that addresses lands:

Approval of Minister

(2) If the Minister has made a grant to an authority under section 39 in respect of land, the authority shall not sell, lease or otherwise dispose of the land under clause (1) (c) without the approval of the Minister except if,

- (a) The disposition is for provincial or municipal infrastructure and utility purposes;
- (b) The province, the provincial agency, board or commission affected by the disposition or the municipal government, agency, board or commission affected by the disposition has approved it; and
- (c) The authority informs the Minister of the disposition. 2010, c. 16, Sched. 10, s. 1

Terms and conditions

(3) The Minister may impose terms and conditions on an approval given under subsection (2), including a condition that the authority pay a specified share of the proceeds of the disposition to the Minister. 1996, c. 1, Sched. M, s. 44 (3).

The lands have been reviewed under the following criteria:

- Is the land impacted by operations of the McKeough Dam?
- Is the unaffected portion of local, provincial or global significance?
- Is the land woodland or agricultural?
- Is the land revenue generating?
- If required, can the land be severed, and still be of interest to a buyer?

Strategic Objectives(s):

Goal 2 – Protect, manage, and restore our natural systems including woodlands, wetlands, waterways, and lakes

Because what we do on land is reflected in our water and ecosystems, the SCRCA develops and implements programs that protect our land resources and promote watershed stewardship practices that lead to healthy, sustainable communities and industries.

Management of Authority Owned Lands: Through the completion of Property Management Plans, the Authority continues to manage its lands to balance revenue production and effective management of woodlands, wetlands and biodiversity.

Goal 3 – Provide recreation and education opportunities for the public to enjoy and learn from our natural environment

Through the lands we manage and own, as well as the educational programs we deliver, the SCRCA provides opportunities for our communities to understand and appreciate the value of their natural environment as well as the social and economic benefits of protecting that environment.

Conservation Lands: The St. Clair Region Conservation Authority and its Foundation own more than 2,100 hectares of land including beaches along Lake Huron, campgrounds, day use parks, wetlands, forests, floodplains, and farmland. A wide range of recreation activities are available on these lands including swimming, boating, hiking, bird watching, camping, fishing, and hunting.

Financial Impact:

As the majority of the lands are marginal and not considered A1 or A2 agriculture land, the appraised value will be on the low end of the market value range.

The Province, under its jurisdiction, may in fact keep the majority, if not all of the revenue generated by the sale of any lands.

Staff will continue to look at cost saving opportunities for land management.

BD-19-159

MacKinnon – Nemcek

“That the Board of Directors acknowledges the report dated October 28, 2019 regarding the review of the McKeough upstream lands and further accepts that such lands are found to be self-sustaining and generating revenue that after expenses, contributes to the annual budget.”

CARRIED

- Current flood threat is moderate to high as water levels remain elevated into floodplains in some locations
- With already high water levels forecasted to exceed record highs in early 2020, the upcoming spring freshet is anticipated as being a very high flood threat
- Significant rainfall in October greatly surpassed monthly normals and triggered widespread flooding throughout the region

Flood Threat

Locations across the watershed have received upwards of 200 mm of rain in the last two weeks. By the evening of October 31st, some locations had received 125 mm of rain within a 48 hour period, resulting in water levels rising quickly into floodplain areas and over roads. Conditions for operating the McKeough Dam had been met and the gates were closed at 8:45 pm on October 31st. As conditions began to settle, the procedure for

opening the gates began November 1st and the gates were completely open by the evening of November 3rd.

As of this report, water levels remain elevated and in some cases are still over the bank and into floodplain areas or over roads. Winds from a westerly direction continue to slow the movement of water out of the Sydenham River and are contributing to the high water levels in Wallaceburg. While no significant precipitation is in the forecast, the flood threat is moderate to high due to the river levels remaining high.

Given that the surrounding lake levels are also high and are predicted to rise further, surpassing the 1986 record levels, the risk of moderate to severe flood condition in the spring freshet is anticipated for 2020.

Precipitation Conditions

- Precipitation was substantially higher in October compared to the normal values for all regions
- Windsor has been below normal values for the past year, whereas all other regions are either at or above normal values

Great Lakes Levels

A Comparison of Great Lakes water levels for September 2019 was reviewed (Sourced from Fisheries and Oceans Canada, 2019)

- Water levels remain high, surpassing average for the past decade
- Average levels for the month of September surpassed the 1986 all-time-high for Lake St. Clair and Lake Erie
- Water levels are forecasted to fall from the September levels

Recorded and projected water levels for Lake Huron and Lake St. Clair were reviewed. (Sourced from Fisheries and Oceans Canada, 2019)

- Water levels on Lake St. Clair are modeled to rise in December and surpass all-time-high levels for the first few months of 2020
- Lake Huron water levels are anticipated to fall from September levels, however surpass record levels in early 2020

BD-19-160

Miller – Kennes

“That the Board of Directors acknowledges the report dated November 1, 2019 on the current watershed conditions and Great Lakes water levels.”

CARRIED

Status Update: Phase II

- SCRCA and City of Sarnia staff are working to maximize funds received through a recent DMAF grant

- Tenders will be advertised for this phase of the project on September 2019.
- Tenders closed on October 3rd, 2019
- Seven tenders were submitted. Total tender prices vary from \$890,111.17 to \$1,283,273.20 (including HST).
- Cope Construction has been awarded this work.
- Construction is expected to begin December, 2019
- Awaiting permits from DFO and other agencies

Director’s Comments:

A written statement was requested confirming SCRCA’s opinion on the importance and need for shoreline erosion control and the protection of infrastructure. Directors and staff discussed the merits and disadvantages of off-shore erosion barriers, which have been found to be financially prohibitive.

BD-19-161

Burrell – Kennes

“That the Board of Directors acknowledges the report dated October 31, 2019 on the Bright Grove, Kenwick to Helen Avenue shoreline improvements Phase 2.”

CARRIED

The Healthy Watershed Program have restored or enhanced over 1,000 ha of land, and over 2.3 million trees planted throughout the region. These projects, along with our outreach and education events aim to minimize non-point source sedimentation, nutrient loading, and thermal changes of water bodies within our watershed.

Strategic Objective(s):

The Healthy Watershed Program fulfills Goal 2 of the St. Clair Region Conservation Authority strategic objectives; Protect, manage, and restore our natural systems including woodlands, wetlands, waterways, and lakes. The objective is being achieved through the strategic action; Develop new tools to promote stewardship practices and evaluate the effectiveness of Best Management Practices and Focus on Programs to Reduce Phosphorous Loading into the Great Lakes:

Financial Impact:

The Healthy Watershed Program is funded by grants, landowner contribution and corporate donations. Since its beginnings the program has distributed more than \$1.9 million in grants to landowners, which has resulted in over 550 projects (total project cost nearly \$5.75 million).

Update:

#TDTreeDays in Strathroy and Sarnia – September 28 and October 26

We are amazed at how many community volunteers participate in these events! For the three events, over 100 people attended! As always, our Strathroy event had great representation from the local Scouts and Guides. Between the two events, 400 native trees were planted. Sarnia Councillor Dave Boushy spoke some words of encouragement to the volunteers at the Mike Weir Park location. Funding from TD Friends of the Environment makes these events possible in our watershed each year.

Forest Fall Fair – September 20-22

As always, our snakes and turtles attracted a crowd at the Forest Fall Fair. This year, staff also included our new Invasive *Phragmites* Display. These informational panels aim to provide identification and management tips for rural landowners. Over 250 people stopped by the booth over the weekend and staff shared information on farm best management practices, conservation areas, and actions individuals can do to improve water quality.

Middlesex Clean Water Program

This program was reinstated in the spring of 2019 (with municipal funding support) and provides Middlesex landowners with funding for eligible and approved water quality improving best management practices. Staff presented four projects to the committee, three of them being livestock restriction fencing and a clean water diversion project. Funding was accepted for one of the three livestock restriction fencing projects. Clean water diversion project was deferred for funding until the next committee meeting.

Staff are continuing site visits with local landowners. Many are interested in wetlands and erosion control measures.

Stewardship projects – *Grants available* SCRCA secures funding from federal, provincial, municipal and private sources to support landowner-implemented stewardship projects including riparian buffers, block tree planting, windbreaks, wetlands, and erosion control measures. Staff meet with landowners and offer advice and project design and where applicable, support projects with grants. Call today for more information.

Upcoming Events

Staff are hard at work putting together a number of workshops and a conference focusing on Soil Health during the winter months. Check back here for more information soon!

November 20 – The value of wetlands on marginal farmland

February 12 (Tentative date) – location TBD – Soil Health Conference highlighting local farmers and best management practices that can be implemented to improve soil health and reduce nutrient loss on farms.

December 11 – Soil Health Workshop Fertilizer Management & Understanding Your Soil Tests

March 11 - Soil Health Workshop – specific topic TBD.

BD-19-162

Bruziewicz – Burrell

“That the Board of Directors acknowledges the status report dated October 29, 2019, regarding the Healthy Watershed Program, including the outreach and education events held throughout the watershed as well as an update on the Walk the Watershed Program.”

CARRIED

The Province has established the Species at Risk Stewardship Fund to enhance stewardship resources and efforts and stimulate investment in species at risk protection and recovery. Through the Species at Risk Stewardship Fund, the Province intends to provide grants to individuals and organizations for projects, which improve the status of species at risk and their habitats throughout Ontario.

With this funding, St. Clair Region Conservation Authority’s recovery efforts focus on the Spiny Softshell Turtle and the Eastern Foxsnake as part of our Reptiles at Risk Program. This program has been ongoing for over a decade and has seen a consistent increase in success. However, since this is a grant-funded program, funding is re-applied for at the end of each grant cycle. Since we are near the end of a two-year grant, the future of the program is currently unknown.

Turtles

The Sydenham River Corridor within the East Branch of the Sydenham River contains one of the last remaining [inland] connected green corridors in Southwestern Ontario. This imperiled and vulnerable habitat provides refuge for the Eastern Spiny Softshell turtle, a species that was up listed to Endangered in 2016. Population sizes are small and declining, the total number of mature individuals in Ontario is estimated to be 1000 and continues to decline, with a 45% decline across the three largest nest locations in Canada (COSEWIC, 2017).

The Spiny Softshell Turtle is an olive coloured flat turtle often referred to as the “pancake turtle”. The leathery carapace of the spiny softshell makes it vulnerable to predators. For this reason, it is very shy and skittish. These turtles can get almost half of the oxygen they require by breathing through their skin while in water, which allows them to hide under water for up to five hours.

The primary threats to this species are:

- habitat and population fragmentation by infrastructure,

- alteration of the water regime (flooding of nests) by dams and changing weather patterns,
- increased recreational and agricultural use of nesting areas and adjacent aquatic habitats by humans (disturbance during nesting due to ATV use, horseback riding, watercraft use), invasion of nesting areas by non-native plants (e.g., European Common Reed (*Phragmites a. australis*))
- high populations of mammalian egg predators and egg poachers, and
- Cyanobacterial blooms (e.g., toxin bioaccumulation, impact on prey) may also impact the species.

Habitat loss is a major contributor to the decline of this species. In the Sydenham, individuals may move up to 30 kilometres between nesting and hibernation sites. Daily movements exceeding 4 kilometres have been observed which is believed to be linked to the lack of critical habitat features. Female softshells prefer to lay eggs in sandy, sunlit areas, which appear to be in limited supply on the Sydenham.

The program consists of the preparation of nesting habitat sites, and the collection, incubation, and release of Spiny Softshell turtles (*Apalone spinifera*). Before nesting season begins, communal nesting sites are prepared with the removal of vegetation growing throughout the site and the addition of fresh sand and gravel substrate. Everyday during nesting season, the Biology team visits the nesting sites and collects eggs that are in immediate danger of high waters or predation. These collected nests are placed in incubation with assistance of Salthaven Wildlife & Education Centre. Once hatched, the turtles are monitored for a short amount of time to ensure they are healthy, they are re-released in a slow-water, sheltered areas near the original nesting site.

Thus far, in 2019, 785 turtle hatchlings have been released, including 257 Spiny Softshell, 268 Northern Map Turtles, 247 Snapping Turtles and 13 Midland Painted Turtles. These numbers show an increase of 45 individuals from 2018, to date this is the most successful year.

Snakes

We have also continued our snake monitoring and rehabilitation initiatives with focus on the recovery of the endangered Eastern Foxsnake. 'Endangered', by definition, refers to a wildlife species that is facing imminent extirpation or extinction. The Eastern Foxsnake, is the second largest snake found in Ontario, reaching lengths of up to 1.7 metres. They have a distinct reddish/copper head and a yellowish to light brown body with dark brown blotches running down the back and alternating blotches on either side. When threatened, the Eastern Foxsnake vibrates its tail and, especially when it meets dry vegetation, makes a buzzing or "rattling" sound. Eastern Foxsnakes have a very restricted global distribution, with about 70 percent of their entire range occurring in Ontario, where population abundance continues to decline. Causes of the species decline include:

- wetland drainage for agriculture,
- impacts resulting from housing and cottage development,

- road mortality
- human persecution and collection for the pet trade

In order to help facilitate the recovery of this species, SCRCA's Reptile at Risk program has focused on a number of efforts including:

- **Artificial Nesting Boxes**

These structures help to protect eggs from predators and create ideal conditions for gravid females to lay their eggs. There are currently nine nesting boxes situated on SCRCA lands and another five have been installed on private landowner properties. The nesting boxes are installed in early spring and are then sorted through and checked in the fall for remnants of eggs and nesting activity.

- **Coverboard Monitoring**

Coverboards are sheets of plywood laid on the ground in order to provide protection and create an insulated heat source for snakes, which are attracted to the underside of the board. Coverboard transects are situated in a line at an equal distance between each board on North facing slopes in order to attract the most sunlight. Monitoring is completed by quickly flipping the coverboard to reveal any snakes hidden underneath. When a snake is present, it is captured, identified to species and photographed. All of these values as well as location, time of day, weather, and a variety of others variables are recorded and shared with Ontario Ministry of Natural Resources and Forestry for long-term monitoring.

This year SCRCA collaborated with Ontario Nature to continue the Long Term Monitoring Protocol to assess population trends in Ontario snakes over time. This protocol outlined specific variables in which surveys should take place including weather conditions, survey times and duration, coverboard size, coverboard placement and required equipment. Two new transects were set up on SCRCA properties following the new protocol. Within two weeks of surveying, multiple snakes were found, which ultimately led to the decision to reorganize the original coverboard transects present throughout the McKeough Floodway that were being used for SCRCA own Foxsnake sampling. Sampling took place for 8 weeks and numerous species were found including Eastern Foxsnake, Eastern Gartersnake and Butlers Gartersnake. This data will be shared with Ontario Nature and all coverboard transects will remain in the same location for next season.

- **Identification of Individual specimens**

The 2019 field season marked the first year SCRCA implemented a platform to identify individual Fox Snakes using a photograph catalogue. The 'blotch' style markings on the snakes are unique to individuals and subsequently can be used to identify an individual. A database has been created incorporating data from many years of surveying, this can assist in tracking which snakes are using the artificial nest boxes.

Reptile Program Education and Outreach:

- Third Annual Turtle Birthday Party at AW Campbell CA, August 16

Approximately 50 participants attended this year's Turtle Birthday Party to learn about SCRCA's Reptile at Risk Program. A short presentation was given outlining the program and general information on Ontario's turtle species, followed by a number of related activities and refreshments. The highlight of the day for most was the special appearance made by three different hatchling species!

- **Species at Risk Newsletter**

The Species at Risk Newsletter is awaiting distribution to approximately 65,000 residents. The 2019 Newsletter focuses on Mussel Research as well as turtle and snake articles related to the Reptiles at Risk Program. It is predicted that the newsletter be distributed by the middle of September.

Conclusion:

The Species at Risk Stewardship Fund has created a number of opportunities for ongoing recovery efforts of two of the Sydenham's Reptile Species at Risk. Valuable partnerships have been created with other organizations and have closed knowledge gaps regarding monitoring surveys and stewardship efforts. Although the program has succeeded with every year that passes, it has also allowed for progression and growth in upcoming years. SCRCA hopes to be able to own in-house incubators for turtle eggs in years to come. The biology team will be working on a new design for the artificial snake nesting boxes, photographing captured snakes to identify individuals and continuing with the cover board monitoring while following the Long Term Monitoring Protocol.

Strategic Objectives:

Goal 2:

"Protect, manage, and restore our natural systems including woodlands, wetlands, waterways, and lakes."

Strategic Actions: Reptile Species at Risk: The objective of the Reptiles at Risk program is to encourage good stewardship for snakes and turtles in the St. Clair Region. Program activities include tracking occurrences, protecting and improving habitat on Authority and Foundation owned lands, and encouraging local community members to take similar actions.

Financial Impact: This program is funded by the Species at Risk Stewardship Fund. All deliverables of this two-year grant will be completed in February 2020. The Species at Risk Stewardship Fund usually opens for applications in the fall. There have been no calls for proposals to-date. The future of this program is currently unknown.

Concern from developers. Reflects back on CA. Ministry should be enforcing this, not us. Why should the CA take the heat? Brian submitted letter saying it's a recommendation.

BD-19-163

Miller – Kennes

“That the Board of Directors acknowledges the report dated October 31, 2019, on the Reptiles at Risk Program Update, including highlights of recent collection, incubation and release of Spiny Softshell turtles and snake monitoring.”

CARRIED

Through financial support provided by Environment and Climate Change Canada (ECCC), the St. Clair Region Conservation Authority (SCRCA) is coordinating the development of a Phosphorus Management Plan for the Sydenham Watershed to reduce the impact of this nutrient on the Great Lakes basin and improve the health of the local ecosystem. Phosphorus is essential to life but when it becomes available in excessive amounts in freshwater environments it can cause algal blooms and hypoxic (low oxygen) conditions. This severely degrades the water quality of lakes and rivers and can impact the safety of water for drinking, recreation, and wildlife.

The objective of this multi-year project is to coordinate with local stakeholders, First Nations, and community members to identify sources of phosphorus and determine best-value solutions for our region. A community engagement and outreach strategy will be developed to implement the Management Plan.

Progress since June 2019 board report:

Date	Item	Details
Summer 2019	SCRCA Project Team Work	<ul style="list-style-type: none">• Staff conducting/compiling research and collecting data based on direction from committees• Staff drafting reports that will provide the basis for chapter content• Staff attended local rural water quality events• Staff participating on the Lake Erie Action Plan Implementation Committee• Staff reached out to local First Nations representatives to form the First Nations Engagement Committee• Staff finalized membership on the Advisory Committee
October 10, 2019	First Nations Engagement Committee Meeting	<ul style="list-style-type: none">• Introduced project to committee members, invite participation on other committees;

		<ul style="list-style-type: none"> • Presented information that is currently known; • Reviewed proposed Project Charter, Terms of Reference, Project Outline; • Received feedback and direction
October 23, 2019	<p>Advisory Committee/Technical Team Meeting</p> <p>Board Representative present: Terry Burrell</p>	<ul style="list-style-type: none"> • Introduced project to committee members; • Reviewed proposed Project Charter, Terms of Reference, Project Outline; • Presented information that is currently known; • Presentations from local researchers/experts • Brought forward technical questions that have arisen from research and committee discussions to receive direction from Technical Team • Received feedback and direction

The SCRCA Project Team is compiling feedback from the committee meetings and one-on-one discussions with committee members to direct ongoing research. This information is being investigated, discussed at meetings, and incorporated into the draft Management Plan.

Upcoming committee meetings:

- Point Source Working Group Meeting
- Non-Point Source Working Group Meeting

Strategic Objectives:

The Phosphorus Management Plan is a project that ties into our existing programs and will help us to meet our strategic objective to focus on programs that reduce the loading of phosphorus to the Great Lakes in order to protect, manage, and restore our natural systems.

Goal 2:

“Protect, manage, and restore our natural systems including woodlands, wetlands, waterways, and lakes.”

Strategic Actions:

“Develop New Tools to Promote Stewardship Practices and Evaluate the Effectiveness of Best Management Practices: Evaluate the current model of landowner outreach and voluntary stewardship and explore new tools and collaborations that expand conservation opportunities utilizing information from our watershed report cards. Best Management Practices (BMPs) are encouraged to promote soil health, improve water quality, and provide for more resilient watersheds. Efforts need to be made to evaluate the various BMPs to ensure they are creating the results expected such as reducing nutrient loss from farm fields (with a focus on phosphorus) and decreasing sedimentation in watercourses. This is an opportunity to work with colleges and universities, farming groups, and others to develop solid science to evaluate BMP effectiveness.”

“Focus on Programs to Reduce Phosphorous Loading into the Great Lakes: Governments on both sides of the border have been taking action setting targets for the Great Lakes to deal with the problem of excess Phosphorus. Stewardship programs, while also addressing other watershed needs, should focus on reducing Phosphorous levels entering the Great Lakes.”

Financial Impact:

Staff have finalized a work plan and signed a three-year contribution agreement with ECCC totaling \$220,000 covering 2019-2022 which will support the development of the Sydenham Watershed Phosphorus Management Plan.

BD-19-164

Burrell – Stark

“That the Board of Directors acknowledges the status report dated October 29, 2019, regarding Environment and Climate Change Canada funding for a Sydenham Watershed Management Plan.”

CARRIED

Seed Collection Program

- The annual seed collection program was successful this year with staff collecting more than 2,800 litres (70 bushels) of tree seed within the SCRCA watershed. This ensures that trees planted in the SCRCA watershed are genetically indigenous to the region for the health of our future forests.
- All seed collected (mainly oak, hickory and walnut) was shipped to the tree nursery where most of SCRCA's deciduous trees are grown and are purchased for the tree planting/afforestation program. This year's tree seed will become seedling trees for the 2021 and 2022 program.

Tree Planting Program

- Staff are currently busy with landowner site visits for the 2020 spring tree planting program. Approximately 60,000 trees are on order and secured with tree nurseries for next years program.
- Subsidies to reduce the cost of trees and planting for landowners are what keeps this program running. The cancellation of the 50 Million Tree Program (grant program) from the province still continues to be a concern. The federal government has committed to keeping the program going for 2020 with the possibility of extending funding until 2023. This is very good news, however the subsidy is less than it was through the province, therefore more top up funding will be essential, possibly requiring some conservation services reserves to make up the short fall as we move forward and until provincial environmental grant programs become more reliable.

Vegetation Management Program

- Most of the trees planted under the spring tree program in years 2016, 2017, 2018 and 2019 require follow up vegetation control by way of fall herbicide application. A non-selective herbicide is used to kill difficult perennial competition. October and November is the treatment time frame after the tree seedlings go into dormancy.
- Approximately 250,000 trees on more than 130 individual properties will be sprayed over a 6 to 8 week period by staff this fall (weather dependent). A spring pre-emergent herbicide will then be applied next year.

Managed Forest Tax Incentive Program (MFTIP)

- Landowner inquires for managed forest tax plans are starting to come in early this year.
- MFTIP plans for the 2021 tax year must be approved and submitted by the June 30th, 2020. Plans are usually written by the plan approver with input from the landowner
- MPAC adjusts property taxes on the managed forested portion of the property equal to agricultural tax rates. Non-farm rural forests are currently taxed at residential rates.

Waste Management Twin Creek Landfill

- Work continues with Waste Management's Twin Creeks landfill north of Watford. Approximately 220 large stock trees were planted on the 2 km long screening berm along Zion Line and Nauvoo Road. These are replacement trees for some of the trees that did not survive when planted in 2011. There were originally more than 2000 large stock trees planted.
- We also continue to work on tending maintenance operations to the 50,000 poplar trees planted on the landfill cap. The poplar trees are used to reduce water population from landfill leachate. Diluted leachate is pumped to the trees rather than

treating it and discharging the treated water to a sanitary sewer or water body.

**Regarding BD-19-53
Large Stock Tree Planting programs**

- SCRCA has been purchasing and providing larger stock potted and bare root trees to landowners and municipalities since the 1990's.
- Historically, most municipalities have purchased trees on an as needed basis.
- More recently, the large stock program has evolved into one which has more native tree species available as well as trees grown from more regional seed sources.
- Currently there is one municipality purchasing trees annually and one municipality that started doing the same in 2019.
- SCRCA provides a list of tree species, sizes and prices to municipalities each January. Municipalities then submit a list of quantities they wish to purchase by the March 1st deadline. SCRCA then submits a bulk order to the tree nursery(s).
- SCRCA purchases the trees at wholesale cost, ships the trees to the storage facility in Strathroy-Caradoc and makes arrangements with each municipality to pick up the trees on a specific day(s). SCRCA invoices each municipality for the cost of the trees. The two participating municipalities provide a subsidized price to landowners who purchase and plants the trees on their property located within the municipality.

BD-19-165

Burrell – Nemcek

“That the Board of Directors acknowledges the report dated November 1, 2019 on the Conservation Services programs and projects across the watershed as well an overview of the Large Stock Tree Planting program.”

CARRIED

The Regulations Activity Report for the period September 1 to 30, 2019 was reviewed.

BD-19-166

McMillan – Burrell

“That the Board of Directors accepts the Regulations Activity Reports on *“Development, Interference with Wetlands & Alterations to Shorelines & Watercourses”* Regulations (Ontario Regulation 171/06), dated October 10, 2019 and includes the period September 1 to 30, 2019 as presented.”

CARRIED

The monthly Planning Activity Summary report for the period of September 1 to 30, 2019 was reviewed.

BD-19-167

Brown – Brennan

“That the Board of Directors acknowledges the St. Clair Region Conservation Authority’s monthly Planning Activity Summary Reports dated October 10, 2019, for the period of September 1 to 30, 2019.”

CARRIED

Highlights:

- Duplication of duties was not identified as an issue or a concern by watershed planners.
- No redundancy in tasks completed by SCRCA staff for planning applications was identified by watershed planners.
- Improved communication will benefit processes on the part of all parties.
- Updated memorandum(s) of understanding (MOU) will provide opportunity to: clarify roles and each organizations responsibilities, improve process, educate and inform all parties and the public.
- All watershed planners identified the need for the SCRCA’s natural heritage commenting service. This expertise is not available at any of the planning offices in the region and is costly to be acquired from the private sector.

Reason for the Conference Call

During the October 17, 2019, SCRCA Board of Directors meeting, questions were brought up regarding possible duplication of effort and redundancy in providing comments and charging fees for municipal planning applications. Further to this, the SCRCA Board of Directors requested a report at the November 14, 2019 meeting, providing an update on meetings undertaken with county and municipal planning staff regarding redundancies and duplications within the SCRCA planning services.

In order to prepare this report, the SCRCA hosted 5 separate conference calls with the directors/managers of planning in our 4 regions – Sarnia, Chatham-Kent, Lambton, & Middlesex. The SCRCA requested that the directors/managers review the proposed agenda items for the conference call, coordinate with planning staff, and invite any planning staff they wish to have on the call, and to provide any identified concerns or other issues with the SCRCA planning services. Also on the calls were SCRCA Chair, Joe Faas, SCRCA Vice-Chair, Larry Gordon, General Manager, Brian McDougall, Manager of Planning, Dallas Cundick and Planner, Erica Ogden.

The SCRCA also used this opportunity for a brief introductory discussion on updates to MOU(s) for planning services between the SCRCA and each of the region’s, and to review the draft planning fees as accepted by the board at their September meeting.

Discussion on SCRCA Roles – Planning – Plan Input and Review

A summary of SCRCA's role in plan input and review was provided which includes the role as: an agency with provincial delegation (natural hazards), a municipal technical advisor (natural heritage), a public body, a watershed-based resource management agency, and a landowner.

From the watershed planner's perspective, the roles of the SCRCA are well understood. The Municipality/County/City relies on the SCRCA for expertise in natural hazards and natural heritage, as that level of expertise is not available in house.

Discussion on Identified Concerns

No duplication or redundancy identified. The SCRCA is not doing the same work as the Municipality/County/City, specific roles as per above are clear and well understood by watershed planners. Overall, it was discussed that the Municipality/County/City and the SCRCA planning services have a good working relationship.

An opportunity exists to update all MOU(s) between the regions and the SCRCA for planning services, and especially where an updated active MOU does not currently exist (Middlesex, Chatham-Kent, Sarnia). Working together through the process and updates to the MOU(s) would assist in strengthening relationships, further clarify roles, and allow improvements to timing and process (application management).

From the development community and public perspective there is at times confusion regarding the SCRCA's role. Educational outreach to the public about the SCRCA's role in planning could be beneficial, outside the context of a specific application. Plain language where appropriate should be used to present information clearly.

The proposed 2020 fee schedule was circulated for review. No comments regarding duplication of fees, or fees in comparison to municipal fees were raised. Improvements to the process for fee collection were raised, recognizing the need to collect fees and receive comments quickly. Opportunities to simplify and improve fee collection, including through updates and/or amendments to the MOU, should be explored.

Pre-consultation was identified as a very important part of the planning process, to provide potential applicants with upfront information about the future requirements and introduce the role of the SCRCA. The option for preliminary discussions without the payment of a fee was identified to avoid potential hindrances to the application process.

Various levels of fees charged based on the type of applicant was discussed, including fees charged to municipalities. When the Conservation Authority took on natural heritage commenting on behalf of municipalities (2015), no additional funding through levy was provided. In 2017, The SCRCA Board of Director's passed a motion directing

that the costs for natural heritage services be paid for through user fees including municipally driven projects. If additional funding through levy is provided to support the natural heritage program, fees for municipally driven projects for natural heritage services could be reviewed.

In addition to the above understood roles, the Municipality of Strathroy-Caradoc would also like to work with the SCRCA as an active partner in projects in the community as it continues to grow, working towards common goals, where the SCRCA can act in a leadership role in addition to providing technical expertise. Focus on the collaborative partnership, not just a regulatory role. The SCRCA has an important role to play and the Municipality would like to look for ways to partner to address natural hazard and natural heritage issues in the broader context of the community. Focusing on ways to reach end goals through improved relationships. The Conservation Areas are seen as an asset in the community which should be protected and made accessible. Encourage public education and improve perception that the Municipality and SCRCA share common goals. Future master plans for the Conservation Areas are proposed and would be a good joint project.

Specific Planning Application Processes and Improvements Discussed;

- Tweaks in process related items such as fees, pre-consultation and timelines can be addressed through the MOU(s).
- Recommend clarification of some of the terminology in the fee schedule to be more consistent with language used by the City/County/Municipality.
- Further clarification on the distinction between major and minor applications would be beneficial, and to look at ways to simplify the fee schedule.
- Continue/expand communication before the application is circulated to screen in advance and determine the need for SCRCA comments.
 - Shoreline development immediately adjacent to the natural hazards.
 - Surplus farm dwelling severances with limited regulated area.
- Plain language where appropriate should be used to present information clearly.
- Pre-application meeting processes vary throughout the watershed. As a practice, the SCRCA is invited to attend pre-application meetings and proponents are informed regarding the Authority's role in the process.
- City of Sarnia has shifted to a regularly scheduled monthly meeting date for all pre-consultation meetings, with SCRCA staff invited to attend (in person or conference call based on application).

Strategic Objectives(s):

Goal 1 – Develop and maintain programs that will protect life and property from natural hazards such as flooding and erosion

Goal 4 – Build a stronger and more valued organization through business excellence

A presentation was provided by Dallas Cundick, Manager of Planning and Regulations.

Director's Comments:

Dissatisfaction was expressed that not all of the member Municipalities were consulted. Due to time constraints and the limited availability of the Chair and Vice-Chair, SCRCA was not able to meet with all, but instead sought feedback from the 4 regions within the watershed: Sarnia, Chatham-Kent, Lambton and Middlesex. Staff are directed to contact each Municipality to discuss potential duplications or redundancies within our planning services.

BD-19-168

Marriott – Schenk

“That the Board of Directors acknowledges the report on Plan Input and Review - Unnecessary Duplication and Redundancy Discussions, with Planners and Planning Managers, and further acknowledges the following highlights from these discussions as described in the report handed out in today’s meeting.”

CARRIED

The statement of Revenue and Expenditure to September 30, 2019 was reviewed.

Director's Comments:

A request was made to consider displaying revenues and expenditures in a monthly or quarterly format in order to provide better clarity on the budget.

BD-19-169

Kennes – Brennan

“That the Board of Directors requests that a report is submitted to the December meeting regarding the possibility of providing monthly or quarterly revenue and expenditures for closer monitoring of the budget to date.”

CARRIED

BD-19-170

Kennes – Brennan

“That the Board of Directors acknowledges the revenue and expenditure report to September 30, 2019, as it relates to the budget.”

CARRIED

The September to October 31, 2019 disbursements were reviewed.

BD-19-171

Brown – Schenk

“That the Board of Directors approves the September to October 31, 2019 disbursements as presented in the amount of \$749,226.38.”

CARRIED

The status report on the 2019 general levy receipts to October 31, 2019 was reviewed.

BD-19-172

Miller – MacKinnon

“That the Board of Directors acknowledges the status report on the 2019 general levy receipts to October 31, 2019.”

CARRIED

Investment reports for the period ending September 30, 2019 were reviewed.

BD-19-173

Kennes – Burrell

“That the Board of Directors acknowledges the Investment Report, for the period ending September 30, 2019.”

CARRIED

The SCRCA 2020 draft fees were reviewed.

Director’s Comments:

Directors requested justification for increases to fees. SCRCA staff explained that increased fees were needed not only to meet the cost recovery model, but also to fall in line with neighbouring Conservation Authorities and Municipalities. It was confirmed that fee increases were factored into the proposed 2020 budget. A motion was made to freeze all fees with the exception of camping fees. A recorded vote was requested.

Recorded vote RE: BD-19-174

Director	For	Against
MacKinnon, Betty Ann		✓
Nemcek, Frank	✓	
Faas, Joe		✓
McGregor, Carmen (Regrets)	-	-
Broad, Al		✓
Marriott, Kevin	✓	
Scott, Lorie (Regrets)	-	-
McMillan, Dan		✓
Loosley, Brad	✓	
Schenk, Ron		✓
Gordon, Larry (Regrets)	-	-
Bruziewicz, Andy		✓
Burrell, Terry		✓
Stark, Mike	✓	
McGill, Mark		✓
Brown, Pat		✓
Miller, Steve		✓
Brennan, John		✓
Kennes, Frank		✓
Westgate, Jerry (Regrets)	-	-
Totals	4	12

BD-19-174

Loosely – Stark

“That the Board of Directors acknowledges the reports on Conservation Area and Planning fees and directs that fees for all programs and services, with the exception of camping fees, be frozen at the current rates for the year 2020.”

FAILED

BD-19-175

Burrell – Kennes

“That the Board of Directors acknowledges the reports on Conservation Area and Planning fees and approves the Schedule of Fees dated October 2019, for all programs and services for the year 2020 fees and further directs staff to circulate the approved fee schedule to all member municipalities.”

CARRIED

BD-19-176

Loosley – Brennan

“That the Board of Directors lifts Motion BD-19-150 from the table.”

CARRIED

Director’s Comments:

Directors share concern that approval of the preliminary draft budget may be perceived as supportive of the increase. Directors request a clear breakdown of proposed levy increases as well as justification for each program to be included in mandatory program table.

BD-19-177

Schenk – Miller

“That the Board of Directors acknowledges the 2020 preliminary draft budget of \$8,621,792.21 with a proposed municipal general levy of \$1,069,926 and further that this preliminary budget will be circulated to member municipalities for information and input based on our budget review process.”

CARRIED

Minutes of the July 22, 2019 Joint Health and Safety Committee meeting were reviewed.

BD-19-178

Burrell – McMillan

“That the Board of Directors acknowledges the July 22, 2019 meeting minutes of Joint Health and Safety Committee.”

CARRIED

BD-19-179

Loosley – Kennes

“That the 2020 Nominating Committee consisting of the following four directors representing the four districts of the Authority being Sarnia, Lambton, Chatham-Kent, and Middlesex be: Terry Burrell, Ron Schenk, Carmen McGregor, Betty Ann MacKinnon and further that the Nominating Committee’s recommendation for the 2020 committee membership be presented at the Annual General Meeting.”

CARRIED

The proposed 2020 schedule of meetings was reviewed.

BD-19-180

Schenk – MacKinnon

“That the Board of Directors approves the 2020 tentative schedule of meetings for the Board of Directors and Committees, dated October 31, 2019.”

CARRIED

Memorial Forest Dedications

Memorial forest dedication services were held on September 15th and September 22nd this past fall.

Denning’s Chatham-Kent and West Elgin Memorial Forest Dedication:

The 3rd annual Denning’s Chatham-Kent and West Elgin Memorial Forest dedication was held on Sunday, September 15th at the Keith McLean Conservation Lands. Tree planting and conservation education are supported through donations made to the Foundation in recognition of families served by the Chatham-Kent and West Elgin Denning Funeral Home branches.

Approximately 95 people attended the service. Duncan Skinner brought remarks on behalf of the Foundation. A red oak tree was planted as a symbol of the trees that will be planted through the Authority’s forestry programs and all the children that will take part in conservation education programs.

Foundation Memorial Forest Dedication

The Foundation Memorial Forest Dedication was held on Sunday, September 22nd at the Lorne C. Henderson Conservation Area in Petrolia, Ontario. Duncan Skinner and Joe Faas provided remarks on behalf of the Foundation and Authority, respectively. Seventy people attended the dedication where a tulip tree was planted as a symbol of all the trees planted through donations to the Foundation. From September 2018 to August 2019, 47 trees were dedicated through individual donations to the program. To date, a total of 2142 trees have been dedicated through the Foundation’s Memorial Forest Program.

Conservation Awards

A list of possible conservation award recipients will be brought forward at our Board meeting in December. Board members wishing to nominate any individual or organization should contact Brian McDougall or Donna Blue at the SCRCA Administration Office.

St. Clair Region Conservation Foundation

The St. Clair Region Conservation Foundation raises funds to support the work of the Conservation Authority. At the October 17th meeting, the Foundation approved support for a number of projects and programs:

- \$3660 to support the purchase of two Automated External Defibrillators (AEDs) for the A.W. Campbell Conservation Area and the SCRCA Administration Building.
- \$10,000 to support two intern positions
- \$60,000 to support Conservation Education

Conservation Education Fundraising

One of the main Authority programs supported by the Foundation is Conservation Education. Efforts are made to secure funds from corporate sponsors, special events and the BINGO program. Additionally, the Conservation Authority applies for government grants to support the education program. Current support efforts include:

Sarnia-Lambton Environmental Association (SLEA)

A request has been submitted to the SLEA Board of Directors to continue funding the “River Bottom Critters” and the “Go with the Flow” conservation education programs in 2020. The \$30,000 request is currently being reviewed with confirmation expected in the next couple of months. The “River Bottom Critters” program is targeted at grades JK-12 and the “Go with the Flow” program is offered to students in grades JK-8.

Plains Midstream Canada

The SCRCA has received email confirmation that Plains Midstream Canada will continue to support the “Spring Water Awareness” program delivered to elementary students (JK to Grade 6) for the next three years (\$5,000 annually until 2022). This program is offered in March every year and teaches children about the hazards and dangers associated with spring snow and ice melt along streams and rivers.

Friends of the St. Clair River (FOSCR)

The Friends of the St. Clair River community group have once again committed \$2,500

towards delivering the “River RAP” and new “Phosphorus 101” education programs to both elementary and secondary school students throughout the 2019-2020 school year.
Government of Canada

Through the Habitat Stewardship Program (Department of Fisheries and Oceans) and Canadian Nature Fund (Environment and Climate Change Canada) applications submitted by the SCRCA biology department, \$27,500 has been secured towards conservation education until March 2020. This funding will support the “Aquatic Species at Risk” in-class program offered to elementary and secondary students, along with the development of a program that pairs Indigenous and non-Indigenous-based science to teach students about aquatic habitat, Species at Risk and environmental stewardship.

Enbridge

Through a generous \$5,000 donation by Enbridge, improvements will be made at the Lorne C. Henderson Conservation Area that will benefit both students and campers. These improvements will include: 1) construction of a pond edge boardwalk, 2) a dedicated roadside walkway and 3) a trail-stabilizing retaining wall. In addition, a new application to Enbridge will be submitted shortly that requests support for delivery of education programs at Peers Wetland.

Strategic Objectives(s):

Goal 3 – Provide recreation and education opportunities for the public to enjoy and learn from our natural environment.

BD-19-181

Burrell – MacKinnon

“That the Board of Directors acknowledges the Communications Report dated October 22, 2019 including memorial forests, conservation awards, Conservation Foundation update and conservation education fundraising.”

CARRIED

Fall Education Programs

Labour issues within the local School Boards have been a factor in slightly reduced program bookings this fall. Minor openings in the schedule have provided staff with the opportunity to perform program maintenance. Outdoor Education Funding is continuing through the Ministry of Education. Teachers can apply for \$7.00 per student to be put towards the cost of our field trips.

Program Flyer for Teachers

Elementary and Secondary Flyers have been distributed to the St. Clair Catholic District School Board, private schools and Middlesex Schools in our watershed. The LKDSB has begun distribution of e-flyers only. All flyer requests must now be approved through

an on-line portal before the School Principals will have access to them. The Secondary Flyer was approved by the LKDSB in early October, however the elementary flyer was not approved until October 25th due to a number of issues within the process.

Geocaching Events

Sunday Sept. 15 – Over 50 people were in attendance from as far away as Michigan, Windsor and London. Two families who were new to geocaching attended and enjoyed learning about this opportunity to explore different conservation areas. Our local bird species were highlighted as the new caches were named after birds found in our watershed. These geocaches will remain in place until next year's event.

Lambton Upland Game Bird Club Youth Day

August 17th, 2019 – SCRCA staff provided children with nature-based conservation activities in this annual youth day hosted by the Lambton Upland Game Bird Club Chapter. Connections were made between collected insects and the ecology of farming, fishing, best management practices, and general ecosystem support.

Wyoming Fair and Forest Fair - Agriculture in the Classroom

September 10th and September 13th, 2019 respectively – Staff attended both fairs to bring a conservation message to the attending students. Specifically, the students learned about freshwater mussels found in our watershed's rivers, creeks and ditches; focusing on the connection between responsible farming practices and the health of our aquatic species. Students learned about mussel identification and were encouraged to 'raccoon' for mussels in our model 'creek'. It was a great hands-on experience for all students!

Brigden Fair - Agriculture in the Classroom

October 11th, 2019 – SCRCA education staff provided an educational display with hands-on activities for approximately 800 students in grades 3-6. Staff discussed the importance of wetlands with the use of a metaphor activity improved students' understanding of our connection to wetlands.

Reptiles at Risk Education Day

September 24th, 2019 – Education staff partnered with Biology staff to offer this annual education experience for grade 12 students in our watershed. Students from Great Lakes Secondary School visited Perch Creek to learn about Reptiles at Risk, and the habitats they depend upon.

AFSAR Education Days - Hillside School Kettle Point

October 9th and November 13th – As part of our annual education days at the Kettle and Stoney Point First Nation School, students in grade 3 and grade 4 participate in an outdoor and indoor education day with 3 SCRCA staff. During the ‘outdoor visit, students are taken to a nearby creek to look at life supported there. The indoor day focuses on Species at Risk in Kettle and Stony Point, encouraging the kids to share their own experiences and learn new ideas through games, maps and conversation.

Canadian Nature Fund Program Expansion

October 11th and November 14th, 2019 (monthly visits will continue until June 2020) SCRCA and Hillside School at Kettle and Stony Point First Nation have begun program development and delivery as part of a program expansion project funded by the Canadian Nature Fund. SCRCA Education staff are working with Ojibwe teaching staff at Hillside School to add a conservation message to their existing land-based Ojibwe program. More specifically, the SCRCA is encouraging students to consider local ‘Aquatic Species at Risk’, the habitats that sustain them and potential stewardship projects to protect them.

Strategic Objectives(s):

Goal 3 – Provide recreation and education opportunities for the public to enjoy and learn from our natural environment.

BD-182

Miller – Burrell

“That the Board of Directors acknowledges the Conservation Education Report, dated October 31, 2019 including fall education programs and events.”

CARRIED

Under New Business

An opinion article written by a Plympton-Wyoming resident and published by the Sarnia Journal on November 10, 2019 was discussed.

BD-19-183

Broad – Loosley

“That the Board of Directors requests an in-depth analysis of enquiries related to shoreline erosion on privately-owned property including processes followed, revenues collected and outcomes of those enquiries, and further, how these affect Municipal levy.”

CARRIED

BD-19-184

Brown – Broad

“That the meeting be adjourned.”

CARRIED

Joe Faas
Chair



Brian McDougall
General Manager

Meeting Date: December 12, 2019

Item 7.1

Report Date: December 3, 2019

Submitted by: Brian McDougall

Subject: General Managers Report

Recommendation:

That the Board of Directors acknowledges this report.

Special Advisor's Report of Flooding:

Ontario's Special Advisor on Flooding Report to Government

- Doug McNeil was appointed as Ontario's Special Advisor on Flooding by the Minister of Natural Resources and Forestry, the Honourable John Yakabuski, on July 18, 2019

**An Independent Review of the 2019 Flood Events
in Ontario**

A Report to the Hon. John Yakabuski, Minister of Natural Resources and Forestry

- The duties of the Special Advisor were to:
 - review the province's current flood management framework
 - consider policies and activities which influenced spring flooding
 - consider both Great Lakes and urban flooding
 - provide expert advice to the Minister
 - make recommendations to the government on opportunities to improve the existing flood policy framework
- The Advisor, working with the Ministry, completed a nine-day community tour over two weeks in early September 2019, highlighting the variance in issues, geographies and responsibilities
- Tour stops included a mix of provincial department meetings; agency meetings; municipal and conservation authority roundtables; and guided tours of locally impacted areas
- Community tours took place in Ottawa, Pembroke, North Bay, Toronto, Muskoka, Cambridge and London (attended by Board Member Terry Burrell and Director of Water Resources Girish Sankar)
- The report is broken into 8 Chapters - 1) Introduction; 2) The Review Process; 3) Background and the 2019 Flooding in Ontario; 4) Region Specific Situations; 5) Ontario's Approach to Managing Flood Risk; and 6) Challenges and Opportunities to Managing Flood Risk; 7) Recommendations to External Agencies; 8) Fiscal Pressures and Capacity Issues
- The report contains 66 recommendations
- Conservation Authorities play a key role in many of the recommendations
- The report is available in its entirety at Ontario.ca/floodreport

Programs / Services Summary:

- As requested by the Board of Directors at the October 2019 meeting, the following table outlines in greater detail, the mandate origin, timelines, financial responsibility, legislated responsibility, strategic plan directive,

Meeting Date: December 12, 2019
Report Date: November 29, 2019
Submitted by: Ashley Fletcher

Item 9.1

Subject: Business Arising

Regarding BD-18-144

SCRCA staff suggest having Project Consultants present to the Board of Directors meeting in order to walk through the guidelines on the development of flood lines.

Deferred to 2020

Regarding BD-19-113

Directors requested a report and discussion on the topic of communicating new and amended policies to Municipalities. Directors asked that the drain enclosure policy be brought to the November Board of Directors meeting for review.

Refer to Item 13.4

Regarding BD-19-146

An updated table of Provincial, Municipal and CA Board Mandated programs including a 10-year comparison, cost of program delivery, offsets and relationships to levy as well as implications of program cuts.

To be handed out at meeting

Regarding BD-19-168

Directors requested that staff contact each member Municipality to discuss potential duplications or inefficiencies within SCRCA's Planning services.

Refer to Item 13.5

Regarding BD-19-169

The Board of Directors requests that a report is submitted to the December meeting regarding the possibility of providing monthly or quarterly revenue and expenditures for closer monitoring of the budget to date.

Deferred to 2020

Regarding BD-19-183

The Board of Directors requests an in-depth analysis of enquiries related to shoreline erosion on privately-owned property including processes followed, revenues collected and outcomes of those enquiries and further, how these affect Municipal levy

Refer to Item 13.3

Meeting Date: December 12, 2019
Report Date: November 30, 2019
Submitted by: Greg Wilcox

Item 10.1

Subject: Conservation Areas Update

Recommendation:

That the Board of Directors acknowledges the Conservation Areas update, dated November 30, 2019.

2019 Camping Statistics:

- Overall campground revenue up 0.5%
- Seasonal camping revenue up 1.7%
- Daily camping revenue up 4.8%

Campground Upgrades 2019:

Warwick Conservation Area

- Fibre optic internet cable installed this fall to the gatehouse, workshop, and visitor's centre
- Wi-Fi will be available to campers in two locations
 1. New 'internet café' building between the visitor's centre and the pool
 2. New pavilion behind the gatehouse
- 200m of reservoir shoreline naturalized
- New pollinator garden
- New drainage installed along 4 seasonal lots
- New drainage installed in the main day use area
- 2 hydro panels replaced
- New dock constructed

L.C. Henderson

- 2 hydro panels replaced
- 2 60 gallon hot water heaters replaced
- 2 new portable washrooms
- Safety upgrades for education department and campers including a walking lane along the roadway into the park, new boardwalk into pond, upgraded trails
- Repairs to the dumping station pump system



Warwick Drainage Installation



Warwick Wi-Fi Pavilion

A.W. Campbell

- Roof replacement on pool building and Group A shelter
- 1 hydro panel replaced
- 2 new portable washrooms
- New chemical feed pumps for the pool

Day Use Conservation Area Updates:

- Bridgeview CA wetland construction close to completion, pollinator habitat, tree planting, and site rehabilitation to be completed in Spring
- Bridgeview CA oil day storage tank removal complete (7 storage tanks)
- Coldstream CA boardwalk trail was closed for a couple months due to boardwalk damage and hazard tree concerns; hazard trees removed by Middlesex Centre and CA staff, trail reopened in November
- Additional section of walkway constructed to access Highland Glen boat ramp due to high lake levels
- Boardwalk repairs in Strathroy CA, Coldstream CA, and Clark Wright CA
- Hazard trees removed in Strathroy CA (99), Clark Wright CA (13), Coldstream CA (16), Wawanosh CA (47)
- Forty-two memorial forest trees planted throughout the Conservation Areas



Hazard tree removal after a July storm

Meeting Date: December 12, 2019 **Item 11.1**
Report Date: November 28, 2019
Submitted by: Emily De Cloet, Water Resources Specialist

Subject: Watershed Conditions Report

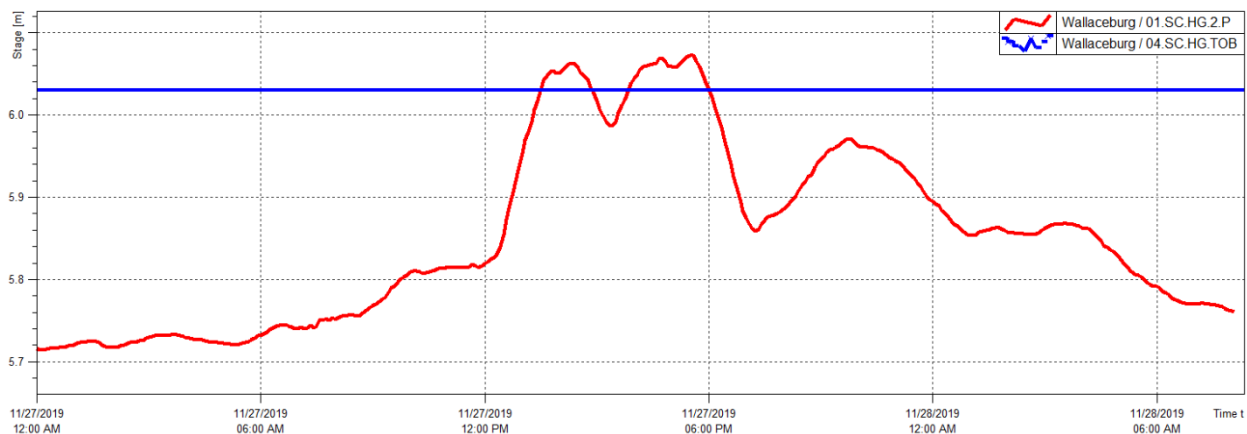
Highlights:

- Spring freshet is anticipated to be severe, with high concern for ice jamming and high snow melt inputs compounded by high lake levels
- Wind storm caused backflow in Wallaceburg, resulting in minor flooding
- Seasonal outlook for winter is anticipated to bring seasonal to below seasonal temperatures, and higher than normal precipitation
- Lake levels anticipated to fall slightly within the month, but exceed record levels in early 2020
- The watershed had 8-12cm of snow on the November 15 snow survey

Flood Threat

The flood threat as of this report is low as a result of above freezing temperatures and no heavy snow or rain in the forecast. However, strong westerly winds have the ability to cause backflow in Wallaceburg, quickly elevating water levels. This was experienced on November 27th, where sustained winds and gusts up to 80km/h pushed water over the top of the bank in downtown Wallaceburg (see Figure 1).

Figure 1: Water level at Wallaceburg stream gauge during November 27, 2019, wind storm.



Nevertheless, long term model forecasts are anticipating below seasonal temperatures and above seasonal precipitation inputs in the coming months, which have the potential to elevate the flood risk to severe due to the increased likelihood of ice jamming and high

snowmelt. Forecasted record high lake levels will also create difficulty during the spring flood.

Precipitation Conditions

No new data for monthly precipitation totals since last board report, dated November 4, 2019. Updated monthly totals will be available for the following board meeting.

Table 1: Snow conditions for November 15, 2019.

Station	SD (cm)	SWE (mm)	Crust	Soil Condition
Alvinston	9.00	24.0	A	UW
Petrolia	11.90	22.0	A	UW
Warwick	8.20	15.0	A	UW
Wallaceburg	11.80	15.0	A	UW
Strathroy	10.30	18.0	A	UD

- Average snow depths (SD) across the watershed ranged between 8-12 cm, with snow-water equivalent ranging between 15-24mm
- Snow had no crust (A) and soil was mostly unfrozen wet (UW)
- Temperatures above freezing were seen days after the snow fell and complete melt occurred

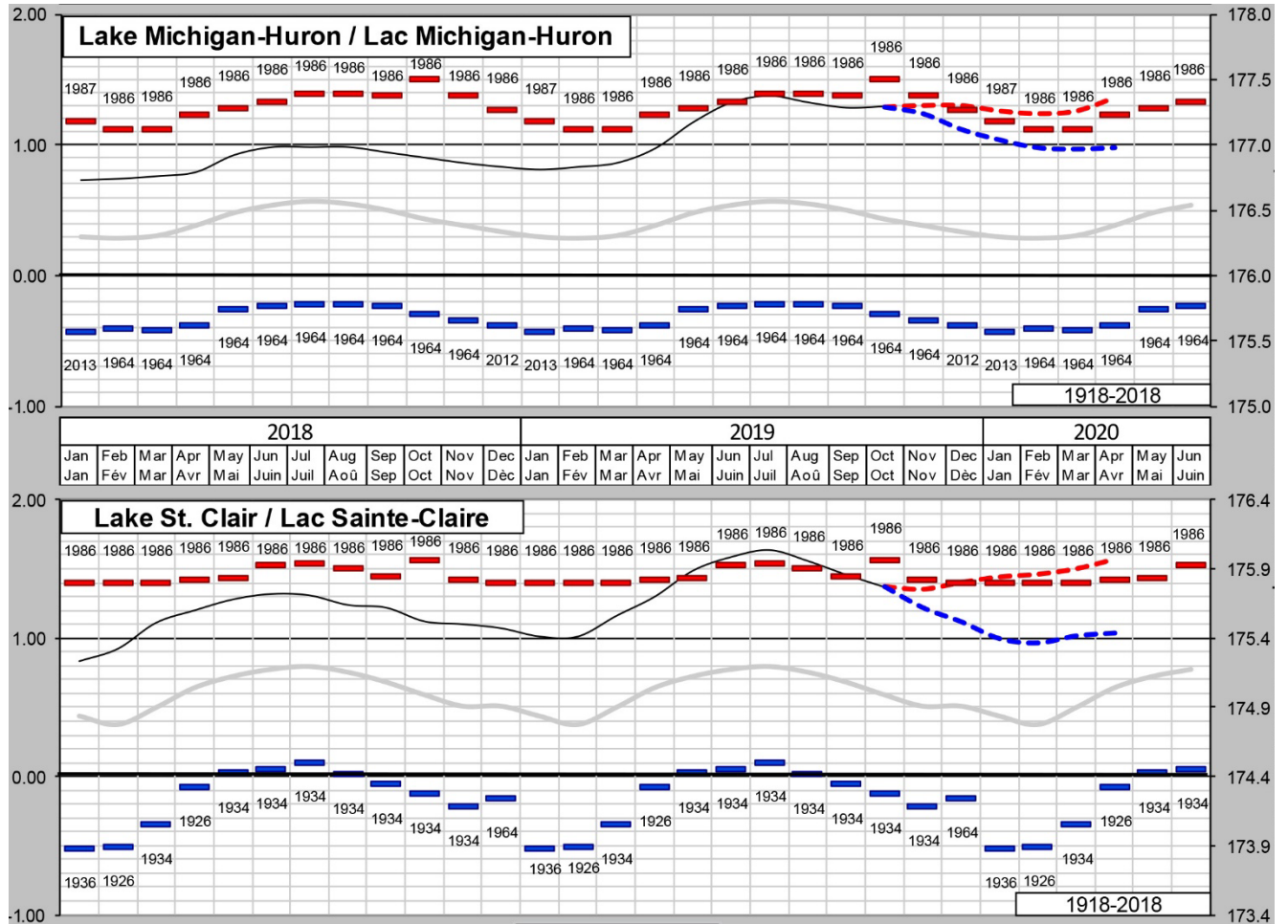
Great Lakes Levels

Table 2: Comparison of Great Lakes water levels for October 2019. Source: Fisheries and Oceans Canada, 2019.

October 2019	Lake Huron	Lake St. Clair	Lake Erie
Mean for Month (Preliminary Data)	177.29	175.77	174.74
Mean for Month Last Year	176.9	175.52	174.57
Change	0.39	0.25	0.17
Mean for Month, Last 10 years	176.38	175.11	174.22
Change Compared to Current	0.91	0.66	0.52
Mean for Month, All Time	176.44	175.00	174.08
Change Compared to Current	0.85	0.77	0.66
Statistics for Period of Record			
Maximum Monthly Mean / Year	177.50	175.96	174.94
	1986	1986	1986
Change Compared to Current	-0.21	-0.19	-0.20
Minimum Monthly Mean / Year	175.70	174.27	173.30
	1964	1934	1934
Change Compared to Current	1.59	1.50	1.44
Next Month Estimate			
Probable Mean for Next Month	177.28	175.68	174.68
Next Month Compared to Current	-0.01	-0.09	-0.06

- Water levels are up compared to this time last year
- Water levels are anticipated to fall next month, but only slightly

Figure 2: Recorded and projected water levels for Lake Huron and Lake St. Clair (in metres, relative to datum). Source: Fisheries and Oceans Canada, 2019.



- Lake Huron is forecasted to exceed record-high water levels starting in December 2019 and continuing into April 2020
- Lake St. Clair is forecasted to meet the record-high water level in December 2019, and then exceed records in January 2020, continuing into April 2020

Seasonal Outlook

Seasonal outlooks are provided each month by Jerry Shields, meteorologist for the Aviation, Forest Fire and Emergency Services branch of the MNR. This information is used internally to prepare for potential increased flood or drought conditions in the distant future. A summary of the outlook is provided below:

- December 2019 and January 2020 are forecasted to receive greater than seasonal precipitation amounts
- December 2019 and January 2020 are anticipated to be at seasonal temperatures, however February 2020 is forecasted as being colder than seasonal
- The conditions for Winter 2019 are modelled very similarly to those experienced in Winter 2004/05, during which saw treacherous blizzards, extreme cold, and a long winter into April.

In summary, if these modelled conditions come to fruition, our region could expect a severe freshet with high amounts of snow melt and thick ice, which would pose an ice jam risk.

Meeting Date: December 12, 2019

Item 11.2

Report Date: November 26, 2019

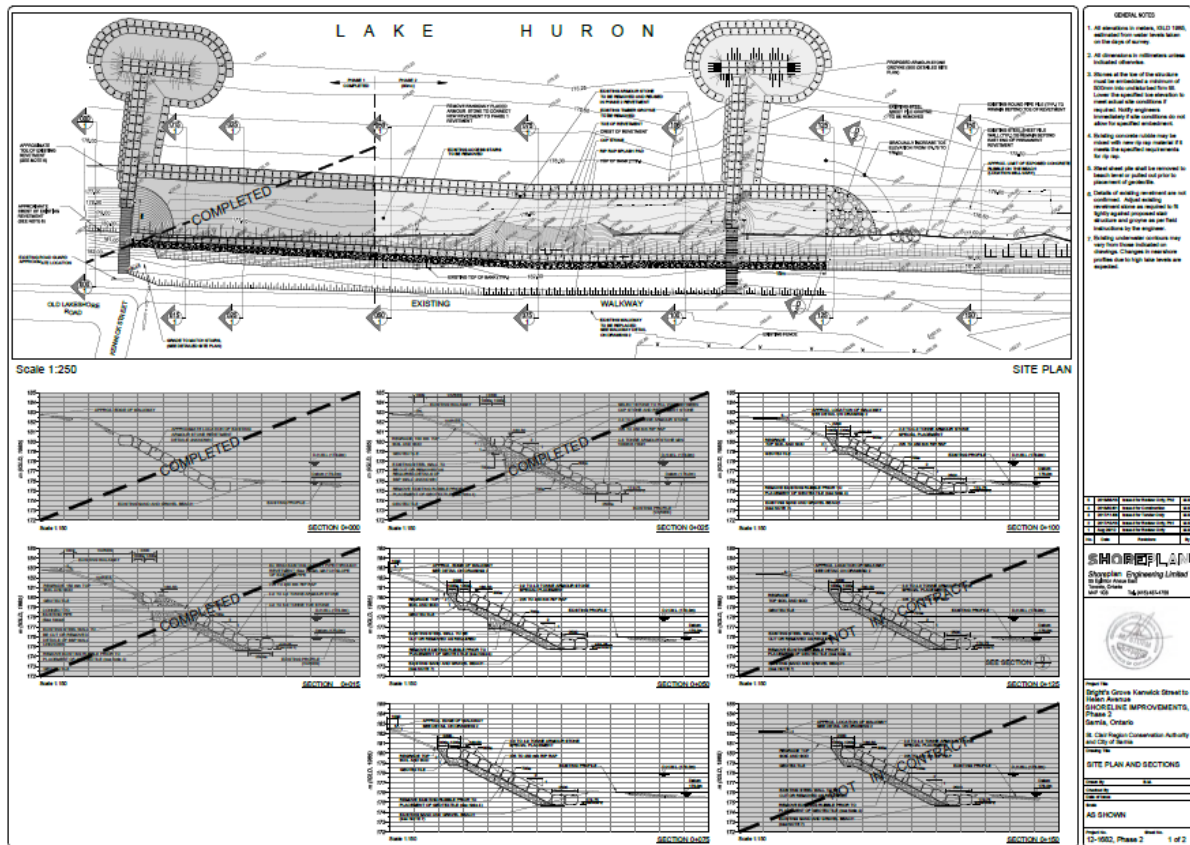
Submitted by: Girish Sankar

Subject: Water & Erosion Control Projects

Structure	Project Name	Description of Work	Status
Courtright Park	Courtright Park Shoreline restoration – Phase 3	Shoreline work at Courtright Park along St. Clair River using armourstone and riprap.	Tender process ongoing
Sarnia Shoreline Protection	Shoreline Repair (Helen and Kenwick St) Phase 2	Carry out construction of Phase 2 from the recommendation of engineering study.	Construction to start January 2, 2020. Permit applications underway
W. Darcy McKeough Dam	Dam equipment repair and painting	Paint Dam equipment and waterproof the gate house and repair equipment as necessary	Ongoing
W. Darcy McKeough Dam	Vegetation Management Plan	Channel and drain repairs along the floodway	Ongoing

Status Update: Phase II

- Phase II work is tendered to complete 75 meters of shoreline
- Additional shoreline work will be completed. Extent of this will be determined mid-January
- Cope Construction will be starting the shoreline work in January 2020
- Awaiting permits from DFO and other agencies
- Modification to the design to not include groynes has been recommended by the City of Sarnia.
- This will expedite permit process and funds can be utilized towards revetment work along Brightsgrove.



Meeting Date: December 12, 2019
Report Date: November 27, 2019
Submitted by: Erin Carroll

Item 12.1

Subject: Black Lighting for Insects at Moore Wildlife Area, Lambton County 2019

Recommendation:

That the Board of Directors acknowledges the report 'Black Lighting for Insects at Moore Wildlife Area, Lambton County, 2019' by Allen Woodliffe

Strategic Objectives(s):

Goal 2 – Protect, manage, and restore our natural systems including woodlands, wetlands, waterways, and lakes.

Background:

Moore Wildlife Area was visited by Allen Woodliffe on three occasions in late 2019 to search for moths and other invertebrates attracted by a black light.

Allen Woodliffe, a retired MNRF ecologist, grew up on a farm just outside of Rondeau Provincial Park. He was a seasonal park naturalist at Rondeau and then the full time park naturalist for about 13 years, before continuing his career at Ontario Ministry Of Natural Resources career as the District Ecologist for Chatham and Aylmer Districts. He retired at the end of 2011 after 36 years with OMNR. Allen is a well-known and respected and is often being asked to lend his ecological opinion and expertise to local projects.

A report summarizing his findings was circulated to Board members. Overall, 60 species of moths and 13 other insects were identified. Seven species of these moths are likely to be uncommon in



Possible Liatrix Borer Moth, *Papaipema beeriana*. Will be new species for Canada if identification is confirmed.

Ontario. Liatris Borer (*Papaipema beeriana*), whose identification is pending final confirmation, is possibly a new species for Canada! Moth specialists have narrowed down the specimen found at Moore to be either *P. beeriana* or *P. necopina*, but due to the bronzy scales, are leaning towards *P. beeriana*. Either species one would be an excellent find, because there are a 2-3 records for *P. necopina* in Ontario/Canada and surprisingly, only 2-3 records for it in the USA.

There is a lot of potential for many more moth species to be documented from this site, especially since the quality of the Sydenham River is well known for supporting less common and even rare species of fauna.

**Black Lighting for Insects
At
Moore Wildlife Area, Lambton County
2019**



**P. Allen Woodliffe
Chatham, Ontario
Nov 4, 2019**

Black Lighting Results At Moore Wildlife Area, 2019

Introduction

The Moore Wildlife Area, more or less in west central Lambton County and owned/managed by the St. Clair Region Conservation Authority, was visited on three occasions in late 2019 to search for moths and other invertebrates which would be attracted by a black light. The author requested permission in late August to set up his black light on the property from time to time over the course of the remaining season and was given permission to do so. Given that the black light power source was via the vehicle's battery, the only suitable location was in the parking lot, just off of Bickford Line.

The process

The black light is an 18" tube specifically designed to attract insects at night, as it reflects off of a white sheet. The white sheet was draped over the side of the vehicle. Photos were taken with a Canon 5DIII, Canon 100mm f/2.8 macro lens, two extension tubes totalling 56mm, and a Canon Macro Ring Lite flash.

Visits were made during the evenings of August 30 for approximately 3 hours, September 17 for about 3 hours and October 28 which, due to the cooler temperatures, was only for about 2 hours. Typically warm (~15C or above), humid nights with little or no wind is ideal, and evenings were chosen for the best opportunity for these conditions. The first two evenings were very good for these conditions. The October 28 evening was essentially an end of season visit, since the daytime high was about 16C and the early overnight temperature was supposed to only drop to about 10C. However those temperatures are often for more urban settings, and the thermometer on the evening of Oct 28 indicated that by about 9 p.m. it had already dropped to about 5-6C. Insect activity was not expected to be abundant, and certainly was relatively slow to begin with; by 8:30 or so it had almost completely stopped, so the decision was made to stop after two hours. Nonetheless it was still worthwhile, as at least half a dozen moth species were noted and photographed including two new ones for the site. Possibly another couple came by for a very brief period at the beginning but did not stick around long enough to be identified or photographed.

Photographing moths and other invertebrates has become increasingly popular in the last decade or so, with the availability of several exceptionally useful sources of information. These include:

- Peterson *Field Guide to Moths of Northeastern North America*, by David Beadle and Seabrooke Leckie, 2012;
- BugGuide, and online insect identifying data base hosted by the Dept of Entomology, Iowa State University;
- iNaturalist, an online database and identification system which in Canada, is sponsored by the Canadian Wildlife Federation, The Royal Ontario Museum, Parks Canada and Nature Serve Canada.

The emphasis of these three visits was on moths, and certainly they did not disappoint. There were actually more than the 60 species on the list that were photographed. However as moths age, they wear considerably, losing many of the scales that give them their characteristic pattern and colours. Some were too worn to identify beyond genus, and others were too worn to even identify to the genus level. There are a few that remain on the BugGuide or iNaturalist websites, hoping that some expert will be able to examine the photo and eventually determine which genus and/or species these currently unknown specimens are.

Not a lot of effort was made to photograph non-moth insects. Caddisflies were sometimes abundant, but it is a large group and apparently they are next to impossible to identify from a photo. Some beetles were photographed, but some were so small that a photo good enough for identification was almost impossible to get. The list of non-moth species included here is just what were taken as the opportunity arose.

Moth Status

Many of the moth species are considered relatively common in Ontario, as per the status given in Beadle and Leckie (B&L). Those that B&L considered uncommon are marked with *. Those with ** are not included in B&L and are likely uncommon. Moths in brackets are tentative. For example the Liatris Borer Moth (*Papaipema beeriana*) has been tentatively identified by a moth expert on BugGuide, but not confirmed. If accepted, it would be the first record on

iNaturalist. It may be *P. necopina*, slightly more common than *P. beeriana* with half a dozen or so scattered records on iNaturalist.

B&L include approximately 1500 moth species in their field guide, and feature mainly the more common species or more colourful or distinctly patterned ones. However, there are believed to be at least 3000 species occurring in the area that field guide covers, so there are a few documented at MWA that were not included in B&L. In the Appendix of photos, approximate sizes, most of which are body length, unless it states WS, meaning wing span, based on information in B&L are provided to give an idea of the size. No sizes are given for the various non-moth species, but some, especially the leafhoppers, are very tiny, being approximately 3-5mm in length.

There is a lot of potential for many more moth species to be documented from this site, especially since the quality of the Sydenham River is well known for supporting less common and even rare species of fauna.

Moths (60)

Adjutant Wainscot, *Leucania adjuta*
*Agonopterix nigrinotella***
Arcigera Flower Moth, *Schinia arcigera*
Ashy Suleima, *Suleima cinerodorsana*
Aster-head Eucosma, *Eucosma tomonana*
Bidens Borer Moth, *Epiblema otiosana*
Black-banded Owlet, *Phalaenostola larentioides*
Bristly Cutworm Moth, *Lacinipolia renigera*
Broad-banded Eulogia, *Eulogia ochrifrontella*
Broken-lined Hypenodes, *Hypenodes fractilinea*
Brown-collared Dart Moth, *Protolampra brunneicollis*
Celery Leaf-tier, *Udea rubigalis*
Chickweed Geometer, *Haematopis grataria*
Clover Looper, *Caenurgina* sp
Columbine Borer, *Papaipema leucostigma*
Common Gray, *Anavitrinella pampinaria*
Common Idia, *Idia aemula*
Common Pug, *Eupithecia miserulata*
Common Tan Wave, *Pleuroprucha insulsaria*
Copper Underwing, *Amphipyra pyramidoides*
Corn Earworm, *Helicoverpa zea*
Crambid Snout Moth, *Ostrinia* sp
Dagger Moth, *Acronicta* sp
Definite Tussock Moth, *Orgyia definita*
Diamondback Epinotia, *Epinotia lindana*
Dingy Cutworm, *Feltia jaculifera*
Double-striped Scoparia, *Scoparia biplagiata*
Elegant Grass Veneer, *Microcrambus elegans*
Filbertworm Moth, *Cydia latiferreana*
Gold-stripe Grass Veneer, *Microcrambus biguttellus*
Gold-striped Leaf-tier, *Machimia tentoriferella*
Gray-marked Tortricid, *Decodes basiplagana*
Greater Black-letter Dart, *Xestia dolosa*
Green Cloverworm, *Hypena scabra*
Harnessed Tiger Moth, *Apantesis phalerata*
Hemlock Looper, *Lambdina fiscellaria*
Large Tolyte, *Tolyte vellea*

(Liatris Borer Moth, *Papaipema beeriana*)**
Lucerne Moth, *Nomophila nearctica*
Master's Dart, *Feltia herilis*
Newman's Brocade, *Meropleon ambifusca**
Oblique-banded Leafroller, *Choristoneura rosaceana*
Obscure Pondweed Moth, *Parapoynx obscuralis*
Packard's Wave, *Cyclophora packardi*
Pale Lichen Moth, *Crambidia pallida*
Porcelain Gray, *Protoarmia porcelaria*
Pondside Crambid, *Elophila icciusalis*
Reddish Eucosma, *Eucosma raracana***
Rigid Sunflower Borer, *Papaipema rigida***
Ruby Tiger Moth, *Phragmatobia fuliginosa*
Similar Eucosma, *Eucosma similiana*
Small Baileya, *Baileya australis*
Spotted Grass Moth, *Rivula propinqualis*
Swordsman Dart, *Agrostis gladiaria*
The White-speck, *Mythimna unipuncta*
Triangle-backed Eucosma, *Eucosma dorsisignatana*
Turtlehead Borer, *Papaipema nepheleptena**
White-marked Tussock Moth, *Orgyia leucostigma*
Yellow-collared Scape Moth, *Cisseps fulvicollis*
Yellow-haired Dagger, *Acronicta impleta**

Non-moth species (13)

Brush-legged Mayfly, *Isonychia* sp.
Caddisfly sp.
Citrus Flatid Planthopper, *Metcalfa pruinosa*
Leafhopper, *Graminella* sp
Leafhopper, *Gyponana octolineata*
Leafhopper, *Prescottia lobata*
Leafhopper, *Scaphoideus* sp
Northern Flatid Planthopper, *Flatormenis proxima*
Pygmy Grasshopper
Ruby Meadowhawk, *Sympetrum rubicundulum*
Saddleback Leafhopper, *Colladonus clitellarius*
The Partridge Bug, *Scolops sulcipes*
Treehopper, *Telemona* sp.

Appendix I. Select Photos of Moths Photographed at MWA



Adjutant Wainscot (19mm)



Bristly Cutworm Moth (15mm)



Columbine Borer (20mm)



Arcigera Flower Moth (12mm)



Broken-Lined Hypenoides (7mm)



Copper Underwing (26mm)



Aster-head Eucosma (6mm)



Brown-collard Dart (21mm)



Crambid Snout (15mm)



Black-banded Owlet (12mm)



Clover Looper (18mm)



Definite Tussock Moth (16mm)



Diamondback Epinotia (11mm)



Large Tolyte (24mm)



Newman's Brocade (13mm)



Elegant Grass-veneer (9mm)



Liatris Borer



Oblique-banded Leafroller (12mm)



Filbertworm Moth (11mm)



Lucerne Moth (15mm)



Pale Lichen Moth (11mm)



Gold-striped Leaf-tier (13mm)



Harnessed Tiger-moth (20mm)



Reddish Eucosma



Rigid Sunflower Borer



Swordsman Dart (19mm)



Yellow-haired Dagger (25mm)



Ruby Tiger Moth (17mm)



Triangle-backed Eucosma (10mm)



Ashy Suleima (8mm)



Small Baileya (14mm)



Turtlehead Borer (18mm)



Bidens Borer (7mm)



Spotted Grass Moth (11mm)



White-marked Tussock Moth (19mm)



Broad-banded Eulogia (8mm)



Chickweed Geometer (24mm WS)



Common Gray (30mm WS)



Obscure Pondweed Moth (9mm)



Porcelain Gray (32mm WS)



Corn Earworm (20mm)



Packard's Wave (22mm WS)



Similar Eucosma (10mm)



Gold-stripe Grass-veneer (8mm)



Pondside Crambid (13mm)



Yellow-collared Scape Moth (18mm)



Hemlock Looper (38mm WS)



Greater Black-letter Dart (21mm)

Appendix II. Non-moth species



Brush-legged Mayfly



Saddleback Leafhopper



Gyponana octolineata



Leafhopper, *Scaphoideus* sp.



The Partridge Bug



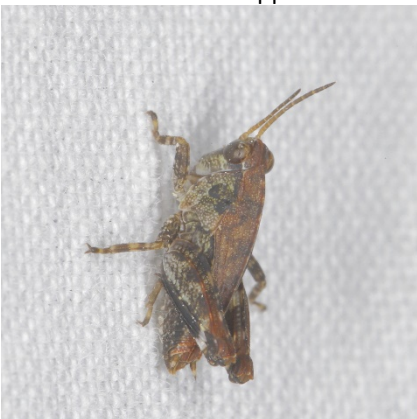
Leafhopper, *Prescottia lobata*



Northern Flatid Planthopper



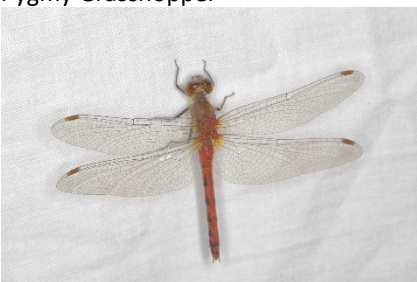
Treehopper, *Telemona* sp.



Pygmy Grasshopper



Caddisfly sp.



Ruby Meadowhawk



Citrus Flatid Planthopper

Meeting Date: December 12, 2019 **Item 13.1**
Report Date: November 27, 2019
Submitted by: Erica Ogden, Sarah Hodgkiss

Subject: Planning Activity Summary for the month of October 2019

A summary of staff activity related to Municipal Plan Input and Review is presented below. This report covers the period from October 1, 2019 to October 31, 2019

Municipal Plan Input and Review

File Reference: PL#2019-101

Municipality:	Chatham-Kent	Municipal Reference:	
Property Location:	25961 Baldoon Road		

File Reference: PL#2019-022

Municipality:	Chatham-Kent	Municipal Reference:	
Property Location:	525 to 595 Wallace Street		

File Reference: PL#2019-082

Municipality:	Dawn-Euphemia	Municipal Reference:	
Property Location:	1212 Mawlam Road		

File Reference: PL#2018-111

Municipality:	Enniskillen	Municipal Reference:	38T-07001
Property Location:	Country View Drive		

File Reference: PL#2019-106

Municipality:	Lambton Shores	Municipal Reference:	A-26/2019
Property Location:	9628 Richardson Drive		

File Reference: PL#2019-100

Municipality:	Lambton Shores	Municipal Reference:	
Property Location:	6928 Richards Drive		

File Reference: PL#2019-095

Municipality:	Oil Springs	Municipal Reference:	
Property Location:	2659 Oil Heritage Road		

File Reference: PL#2018-100

Municipality:	Petrolia	Municipal Reference:	
Property Location:	Part Lot 11, Concession 11		

File Reference: PL#2019-085

Municipality:	Plympton-Wyoming	Municipal Reference:	A18-19
Property Location:	3272 Devonshire Road		

File Reference: PL#2018-045

Municipality:	Plympton-Wyoming	Municipal Reference:	OPA 39 ZBA16/2016 38T- 18005
Property Location:	5706 Lakeshore Road		

File Reference: PL#2019-081

Municipality:	Plympton-Wyoming	Municipal Reference:	
Property Location:	5223 Douglas Line		

File Reference: PL#2018-109

Municipality:	Plympton-Wyoming	Municipal Reference:	
Property Location:	North of 6810 King Street		

File Reference: PL#2019-096

Municipality:	Plympton-Wyoming	Municipal Reference:	A17-19
Property Location:	4072 Bluepoint Drive		

File Reference: PL#2019-072

Municipality:	Plympton-Wyoming	Municipal Reference:	
Property Location:	4195 Aberarder Line		

File Reference: PL#2019-066

Municipality:	Point Edward	Municipal Reference:	B-04/2019, B05- 2019
Property Location:	Plan 25R5875, Part 2 # 6351, Part 1, 2, 7, 25R7792		

File Reference: PL#2019-067

Municipality:	Point Edward	Municipal Reference:	B-06/2019
Property Location:	Plan 25R4041		

File Reference: PL#2019-091

Municipality:	Sarnia	Municipal Reference:	B28/2019
Property Location:	2950 Sunset Blvd		

File Reference: PL#2018-014

Municipality:	Sarnia	Municipal Reference:	OPA 12
Property Location:	834 Lakeshore Road		

File Reference: PL#2019-097

Municipality:	Sarnia	Municipal Reference:	A43/2019
Property Location:	2495 Old Lakeshore Road		

File Reference: PL#2018-084

Municipality:	Sarnia	Municipal Reference:	
Property Location:	2024 London Line		

File Reference: PL#2019-088

Municipality:	Sarnia	Municipal Reference:	
Property Location:	6491 Waterworks Road		

File Reference: PL#2018-072

Municipality:	Sarnia	Municipal Reference:	
Property Location:	1873 London Line		

File Reference: PL#2019-050

Municipality:	Southwest Middlesex	Municipal Reference:	ZBA P6-2019
Property Location:	3355 Lobelia Drive		

File Reference: PL#2018-043

Municipality:	St. Clair	Municipal Reference:	38T-18002
Property Location:	Hill Street (Pt Lt 27, Con 11)		

File Reference: PL#2019-048

Municipality:	St. Clair	Municipal Reference:	A-22-2019
Property Location:	52 MacDonald Street		

File Reference: PL#2019-094

Municipality:	St. Clair	Municipal Reference:	B-07-19
Property Location:	2108 St. Clair Parkway		

File Reference: PL#2019-093

Municipality:	St. Clair	Municipal Reference:	B-06-19
Property Location:	697 Catalpa Way		

File Reference: PL#2019-098

Municipality:	St. Clair	Municipal Reference:	
Property Location:	Indian Road & St. Clair Parkway		

File Reference: PL#2019-092

Municipality:	St. Clair	Municipal Reference:	A24-19
Property Location:	3364 St. Clair Parkway		

File Reference: PL#2019-015

Municipality:	St. Clair	Municipal Reference:	A19-19
Property Location:	4724 Riverside Drive		

File Reference: PL#2019-049

Municipality:	Strathroy-Caradoc	Municipal Reference:	
Property Location:	137 Frank Street		

File Reference: PL#2019-084

Municipality:	Strathroy-Caradoc	Municipal Reference:	
Property Location:	101 Hull Road		

File Reference: PL#2019-099

Municipality:	Strathroy-Caradoc	Municipal Reference:	B34-2019
Property Location:	8338 Scotchmere Drive		

File Reference: PL#2018-103

Municipality:	Strathroy-Caradoc	Municipal Reference:	
Property Location:	Second Street		

File Reference: PL#2018-026

Municipality:	Strathroy-Caradoc	Municipal Reference:	39T-SC1303
Property Location:	Thorn Drive		

File Reference: PL#2019-090

Municipality:	Warwick	Municipal Reference:	
Property Location:	0 Bond Street		

Total Plan Review Items: 36

Legal Inquiry Summary

LL#2019-047	25393 St Clair Road	Chatham-Kent
LL#2019-046	821 Devine Street	Sarnia

Total Legal Inquiries: 2

Meeting Summary

- October 8 – Strathroy-Caradoc, Hull Road site visit (EO, SH)
- October 10 – Town of Petrolia, Elbee Subdivision (EO, SH)
- October 15 – City of Sarnia pre-consultation meeting - internal (EO, SH)
- October 22 – City of Sarnia pre-consultation meeting – with developer (EO, SH)
- October 29 – Client Service Standards for Conservation Authority Plan and Permit Review Webinar (EO, SH, DC, MD, MW)

Meeting Date: December 12, 2019 **Item 13.2**
Report Date: November 27, 2019
Submitted by: Dallas Cundick, Melissa Deisley, Michelle Gallant, Meagan Weber
Subject: Regulations Activity Summary for the month of October 2019

A summary of staff activity related to the Conservation Authority's *Development, Interference of Wetlands, and Alterations to Shorelines and Watercourses Regulation* (Ontario Regulation 171/06 under Ontario Regulation 97/04) is presented below. This report covers the period from October 1, 2019 to October 31, 2019

Regulations Permits:

Application No:	R#2019-805	Municipality:	Brooke-Alvinston		
Subject Property:	East Side of Road located near 4803 Ebenezer Road				
Proposal:	Integrity Dig				
Submission Complete By:	10/17/2019	Permit Issued:	10/29/2019	Days:	12

Application No:	R#2019-741	Municipality:	Chatham-Kent		
Subject Property:	144 Lake Street, Mitchell's Bay				
Proposal:	Screened Porch				
Submission Complete By:	10/2/2019	Permit Issued:	10/7/2019	Days:	5

Application No:	R#2019-579	Municipality:	Chatham-Kent		
Subject Property:	Running Creek				
Proposal:	Repairs to Bank				
Submission Complete By:	10/3/2019	Permit Issued:	10/8/2019	Days:	5

Application No:	R#2019-715	Municipality:	Chatham-Kent		
Subject Property:	246 Margaret Ave, Wallaceburg				
Proposal:	Detached Shed/Garage				
Submission Complete By:	10/2/2019	Permit Issued:	10/4/2019	Days:	2

Application No:	R#2019-234	Municipality:	Chatham-Kent		
Subject Property:	Pavey Line				
Proposal:	Culvert Replacement				
Submission Complete By:	10/24/2019	Permit Issued:	10/24/2019	Days:	1

Application No:	R#2019-209	Municipality:	Chatham-Kent		
Subject Property:	Oldfield Line				
Proposal:	Culvert Rehabilitation				
Submission Complete By:	10/24/2019	Permit Issued:	10/24/2019	Days:	1

Application No:	R#2019-275	Municipality:	Chatham-Kent		
Subject Property:	Pioneer Line				
Proposal:	Culvert Rehabilitation				
Submission Complete By:	4/17/2019	Permit Issued:	10/24/2019	Days:	190*

Application No:	R#2019-783	Municipality:	Sarnia		
Subject Property:	600 Beach Lane, Sarnia				
Proposal:	Detached Garage				
Submission Complete By:	10/8/2019	Permit Issued:	10/18/2019	Days:	10

Application No:	R#2019-749	Municipality:	Sarnia		
Subject Property:	1321 Plank Road				
Proposal:	Addition				
Submission Complete By:	9/18/2019	Permit Issued:	10/16/2019	Days:	28

Application No:	R#2019-389	Municipality:	St. Clair		
Subject Property:	Fawn Island				
Proposal:	Construction of a Cottage				
Submission Complete By:	10/4/2019	Permit Issued:	10/10/2019	Days:	6

Application No:	R#2019-678	Municipality:	St. Clair		
Subject Property:	3501 Tecumseh Road, Mooretown				
Proposal:	Piping replacement, construction of a control building				
Submission Complete By:	9/11/2019	Permit Issued:	10/3/2019	Days:	22

Application No:	R#2019-787	Municipality:	Warwick		
Subject Property:	Warwick Lot 12, Concession 1 North of Egremont Road				
Proposal:	Integrity Dig				
Submission Complete By:	10/21/2019	Permit Issued:	10/21/2019	Days:	1

Total No. of Applications: 12 Average No. of Days to Issue Permit: 24

Permit Review Timelines are outlined in the document “*Policies and Procedures for Conservation Authority Plan Review and Permitting Activities*” Final Version May 2010, completed by the Conservation Authority Liaison Committee (CALC). In the document it states;

- CAs are to make a decision (i.e. recommendation to approve or referred to a Hearing) with respect to a permission (permit) application and pursuant to the CA Act within 30 days for a minor application and 90 days for a major application.

*Agreement to Defer – reviewed preliminary work plans for the year, select permits requested to be valid until end of 2021. Final design drawings required to be submitted.

Regulations Inquiries:

File Reference	Municipality	Location
R#2019-767	Chatham-Kent	553 Walnut Street, Dresden
R#2019-793	Chatham-Kent	171 Davies Street Dresden
R#2019-761	Chatham-Kent	54 Wilson Steet
R#2019-763	Chatham-Kent	40 Highland Drive
R#2019-792	Chatham-Kent	Base Line Bridge, Wallaceburg
R#2019-521	Chatham-Kent	7191 Haven Line
R#2019-688	Chatham-Kent	29771 Mandaumin Road
R#2019-747	Chatham-Kent	561 Robinson Street, Dresden
R#2019-532	Chatham-Kent	7936 John Park Line
R#2019-801	Chatham-Kent	913 Elgin Street
R#2019-824	Chatham-Kent	10906 Croton Line
R#2019-771	Dawn-Euphemia	1562 Inwood Road
R#2019-795	Dawn-Euphemia	7115 Bentpath Line, Euphemia
R#2019-782	Dawn-Euphemia	4590 Lambton Line, Dawn-Euphemia
R#2019-758	Enniskillen	3990 Petrolia Line
R#2019-811	Lambton Shores	Plan 500, Lot 31, St. Anthony Crescent
R#2019-852	Lambton Shores	Cliff Road & Freeman Street, Lambton Shores
R#2019-866	Lambton Shores	6202 Lakeshore Road, Bosanquet
R#2019-739	Middlesex Centre	6017 Egremont Drive
R#2019-755	Middlesex Centre	10295 Ilderton Road
R#2019-471	Middlesex Centre	10027 Ilderton Road
R#2019-802	Oil Springs	2783 Oil Heritage Road, Oil Springs
R#2019-737	Petrolia	546 Maude St
R#2019-744	Petrolia	367 Gem Ave, Petrolia
R#2019-671	Petrolia	Bridgeview Conservation Area
R#2019-553	Petrolia	Petrolia Park
R#2019-370	Plympton-Wyoming	4881 Forsyth Trail
R#2019-665	Plympton-Wyoming	3846 Ferne Ave
R#2019-736	Plympton-Wyoming	4180 Lakeshore Road
R#2019-527	Plympton-Wyoming	4902 The Moorings Circle
R#2019-573	Plympton-Wyoming	3236 Devonshire Road
R#2019-753	Plympton-Wyoming	3844 Ferne Avenue
R#2019-339	Plympton-Wyoming	3236 Devonshire Road
R#2019-245	Plympton-Wyoming	3256 Devonshire Road
R#2019-705	Plympton-Wyoming	4902 The Moorings Circle
R#2019-648	Plympton-Wyoming	3972 Egremont Road
R#2019-770	Plympton-Wyoming	4148 Bluepoint Drive, Plympton
R#2019-772	Plympton-Wyoming	4200 Aberarder Line
R#2019-778	Plympton-Wyoming	3888 Ferne Ave Plympton
R#2019-786	Plympton-Wyoming	4895 Lakeshore Road, Plympton
R#2019-666	Plympton-Wyoming	Lot 59 Bluepoint Drive

R#2019-797	Plympton-Wyoming	3180 Dana Street, Plympton
R#2019-794	Plympton-Wyoming	3271 Egremont Road, Plympton
R#2018-373	Plympton-Wyoming	Lot 15, Plan 31
R#2019-803	Point Edward	422 Helena Street, Point Edward
R#2019-697	Sarnia	Penhuron Street & Old Lakeshore
R#2019-500	Sarnia	2873 Old Lakeshore Road
R#2019-779	Sarnia	2687 Old Lakeshore Road, Sarnia
R#2019-785	Sarnia	Penhuron & Old Lakeshore Road
R#2019-476	Sarnia	2950 Sunset Boulevard
R#2019-748	Sarnia	1892 Lakeshore Road, Sarnia
R#2019-742	Sarnia	1300 Lake Chipican Drive, Sarnia
R#2019-799	Sarnia	1808 London Line
R#2019-768	Southwest Middlesex	6430 Falconbridge Drive
R#2019-769	Southwest Middlesex	6430 Falconbridge Drive
R#2019-781	Southwest Middlesex	6430 Falconbridge Drive
R#2019-238	St. Clair	North of Courtnight Line
R#2019-759	St. Clair	909 White Line, Sombra
R#2019-773	St. Clair	2525 Rokeyby Line
R#2019-729	St. Clair	6 Lambton Line
R#2019-812	St. Clair	2323 Kimball Road, Courtright
R#2019-745	St. Clair	655 St Clair Parkway
R#2019-798	Strathroy-Caradoc	6864 Olde Drive
R#2019-810	Strathroy-Caradoc	6997 Falconbridge Drive
R#2019-762	Strathroy-Caradoc	6997 Falconbridge, Lot 4, Concession 3 Caradoc
R#2019-766	Strathroy-Caradoc	23216 Springwell Road
R#2018-142	Strathroy-Caradoc	Union Road
R#2019-775	Warwick	6038 Warwick Village Road (Warwick Conservation Area)
R#2019-804	Warwick	8290 Zion Line
R#2019-740	Warwick	Around 6359 First School Road
R#2019-743	Warwick	Lot 18, Confederation Line, Watford

Total Regulations Inquiries: 71

Regulations – DART Completed Files

R#2019-757	Chatham-Kent	Roberts Drain
R#2019-652	Chatham-Kent	Abraham Drain
R#2019-703	Chatham-Kent	Pinafore Drain
R#2019-789	Lambton Shores	Elliott Drain West
R#2019-788	Lambton Shores	Shawana
R#2019-751	Plympton-Wyoming	Errol Road Drain

Total DART Permits Issue: 6

Regulations Inquiries - Drains:

File Reference	Municipality	Drain Name
R#2019-764	Chatham-Kent	TBD
R#2019-784	Brooke-Alvinston	Ruth and Logan
R#2019-777	Brooke-Alvinston	Campbell Leitch
R#2019-757	Chatham-Kent	Roberts Drain
R#2019-756	Chatham-Kent	Dankey Creek Branch
R#2019-711	Chatham-Kent	Little Bear
R#2019-776	Chatham-Kent	Hyatt Branch
R#2019-652	Chatham-Kent	Abraham Drain
R#2019-710	Chatham-Kent	Abraham
R#2019-381	Chatham-Kent	Bear Creek
R#2019-049	Chatham-Kent	Hyatt Fryer Outlet Drain
R#2019-703	Chatham-Kent	Pinafore Drain
R#2019-800	Chatham-Kent	Dykeman
R#2019-790	Chatham-Kent	Archer
R#2019-808	Chatham-Kent	McGaffey Award Drain
R#2019-592	Dawn-Euphemia	Vansickle
R#2019-526	Enniskillen	4th Concession-Johnston Creek Drain
R#2019-685	Enniskillen	Shiloh Line West Drain
R#2019-789	Lambton Shores	Elliott Drain West
R#2019-788	Lambton Shores	Shawana
R#2019-691	Lambton Shores	Willemse Municipal Drain
R#2019-806	Middlesex Centre	Bear Creek Drain West of Br 6
R#2019-735	Plympton-Wyoming	South Branch MacKinlay Drain No 2
R#2019-560	Plympton-Wyoming	Montgomery Drain
R#2019-660	Plympton-Wyoming	Braaksma
R#2019-751	Plympton-Wyoming	Errol Road
R#2019-750	Plympton-Wyoming	Core Drain
R#2019-752	Sarnia	Woods Creek Drain
R#2019-796	Sarnia	Clark Drain Branch A
R#2019-037	Southwest Middlesex	Haggerty Drain #1
R#2019-651	Southwest Middlesex	Chittam and Government 5-6 Drains
R#2019-142	St. Clair	Routledge Drain
R#2019-670	St. Clair	Hubbard
R#2019-598	St. Clair	Hawkins
R#2019-765	St. Clair	McGillivray
R#2019-727	St. Clair	Hubbard Drain
R#2019-714	Strathroy-Caradoc	Brunet-Friesen Drain
R#2019-807	Warwick	Perry Drain
R#2019-669	Warwick	Maher Drain

Total Regulations Inquiries Regarding Drains: 39

Meeting Date: December 12, 2019
Report Date: December 3, 2019
Submitted by: Dallas Cundick

Item 13.3

Subject: SCRCA Pre-Consultation Processing Fee Discussion

Recommendation:

That the Board of Directors acknowledges the report on the SCRCA Pre-Consultation Processing Fee.

Pre-Consultation/Processing Fee

When the SCRCA first point of contact staff member gets a walk-in, phone call, phone message or email from a landowner inquiring about their property, potential development and SCRCA requirements, SCRCA staff will outline verbally and generally follow up with an email the following;

- SCRCA understanding of the proposed development (pole barn, new dwelling, etc.);
- What portions (if any) of the subject property are regulated by the Authority under “Development, Interference with Wetlands and Alterations to Shorelines and Watercourses” (Ontario Regulation 171/06) regulations implemented by the Authority pursuant to Section 28 of the Conservation Authorities Act;
- Written permission of the Authority is required prior to commencement of development activities within a regulated area. Development activities include: construction, reconstruction, or placement of a structure; placement or removal of fill; re-grading; altering a watercourse or shoreline; or interfering with the function of a wetland;
- The approximate area regulated by the Authority either by way of map in an email or link to SCRCA online mapping;
- If the landowner is proposing to develop (e.g. pole barn, new dwelling, etc.) completely outside of the regulated area the written permission from the Authority will not be required.
 - SCRCA can review a submitted site plan showing proposed works outside regulated area and issue a clearance email confirming further permission from the SCRCA is not required for works outside the regulated area;
- If the landowner is proposing to develop (i.e. pole barn, new dwelling, etc.) within the regulated area they are asked to please provide a preliminary sketch showing the proposed location of the new structure, and to be sure to include dimensions of the new structure, and any other construction details they may have at this point. The \$100 processing fee is then applied to review the propose works in the

regulated area and provide preliminary pre-consultation review of the proposal and a written response outlining detailed application requirements and process (should a formal permit be require), or for routine works provide a streamlined written permission via email;

- The pre-consultation and processing fee also allows front line staff to perform initial screening of a Planning and Regulations submitted application, and work with proponents to ensure a complete application with all relevant information is received. This is to ensure there are no delays in the review process.

Financial Impact:

The processing fee for 2019 as of September has generated \$20,500 in revenue.

Background (From September 19, 2019 Board Report 14.5):

Further to SCRCA April 2019 Board Report 6.2, and September 2019 Board Report 14.4, the provincial government has released several consultations, draft proposals and proposed amendments to legislation to ensure that conservation authorities focus and deliver on their core mandate of protecting people and property from flooding and other natural hazards and conserving natural resources, while at the same time increasing housing supply and streamline the development approvals process to align with their goals.

CO established a small working group to identify recommendations for solutions that will address the issues identified by the government around the housing supply while still protecting natural hazards management and plan review activities required to protect the health and safety of Ontario's watersheds and residents.

The CO working group developed the following three key solutions that staff will work on with the development and construction community and municipalities. Through these activities we will also identify any other specific concerns to be addressed.

1. Improve Client Service and Accountability;
2. Increase speed of approvals; and,
3. Reduce "red tape" and regulatory burden.

SCRCA Focus on Pre-Consultation in 2019

In 2019, SCRCA began addressing three solutions mentioned above by establishing a dedicated first point of contact staff member for the Planning and Regulations Department and kicking off the use of a new document management system developed over the previous year. This front-line customer service initiative allowed an increased focus on communication with the applicant during the pre-consultation process, which is resulting in improved efficiencies, timely responses on complete application requirements, and identifying the appropriate studies/technical information required for a proposal. When improved pre-consultation is undertaken prior to submission of an

application, the SCRCA can move seamlessly towards processing the application and issuing the permit. Also, with the help of the document management system the department is able to document file progress, track correspondence and collect appropriate fees for services rendered during the pre-consultation process and thereafter. This makes the expectations, process, fees etc. clear from the on-set, which streamlines the process for both the applicant and the CA.

This commitment to pre-consultation and improved customer service has decreased SCRCA response time on permit application requirements. With continued dedication, this sets us up to strive towards achieving the greatly reduced best-practices and turnaround times that the *CO Guideline for Client Service* standards has outlined for all CAs. Reduced timelines recommended by CO are shown in tables below.

Recommendations:

Routine Permit Applications				
	Time to confirm permit application requirements after pre-consultation	Time to Confirm Complete Application	Timeline to Issue Permit (from complete application)	Total Timeline
CALC Guidelines (calendar days)	21	21	30	72
CO Client Service Standards Guideline (calendar days)	7	10	14	31

Minor Permit Applications				
	Time to confirm permit application requirements after pre-consultation	Time to Confirm Complete Application	Timeline to Issue Permit (from complete application)	Total Timeline
CALC Guidelines (calendar days)	21	21	30	72
CO Client Service Standards Guideline (calendar days)	7	14	21	42

Major Permit Applications				
	Time to confirm permit	Time to Confirm	Timeline to Issue Permit	Total Timeline

	application requirements after pre-consultation	Complete Application	(from complete application)	
CALC Guidelines (calendar days)	21	21	90	132
CO Client Service Standards Guideline (calendar days)	14	21	28	63

While improving our pre-consultation process the SCRCA Planning and Regulations department has also been able to continue to keep our complete permit application turnaround time at average to well under the current CALC guideline 30 days as directed by the board. These timelines are currently reported to the Board at each meeting. It should be further noted that Planning and Regulations applications, and compliance and enforcement demands continue to increase.

As identified in the September 2019 Board Report 14.4, further streamlining initiatives are underway. Staff resources are required to meet the updated timelines, and costs associated with implementing the best practices will need to be recovered through CA fees.

It is important to ensure that staff resources continue to be provided to offer timely pre-consultation opportunities, and meet complete permit review timelines and compliance and enforcement objectives.

Strategic Objectives(s):

Implementation the Conservation Ontario Streamlining Initiatives will help to achieve the following goals of the SCRCA Strategic Plan.

- Develop and maintain programs that will protect life and property from natural hazards such as flooding and erosion.

part of an application under O.R. 171/06 and not as part of the *Drainage Act* drain review process.

Other Conservation Authorities:

- As of 2017 the ABCA, LTVCA, ERCA, UTRCA, required written permission (or permits) for drain enclosures.

Over the years, the number of proposed and actual enclosures of open drains and watercourses has increased in Southwestern Ontario. The majority of these enclosures of Municipal drains occur in the upper portions or the headwaters. These headwater systems have important functions.

Enclosures can have negative and cumulative impacts, including:

- increased floodplains
- downstream/upstream flooding
- overland erosion
- increased sediment loads
- degraded stream health (i.e. water quality/ecological functions)

The following motion was carried. “That the Board of Directors acknowledges this report dated March 6, 2017, on the need for O. Regulation 171/06 written permission for drain enclosures and directs SCRCA staff to present a motion and policy to require O.R. 171/06 permission for Drain Enclosures.”

Background (From September 21, 2017 Board Report);

The interim guidelines were developed and presented to the Board (see item 13.4a SCRCA Drain Enclosure Policy in this package). They were to be in place until the comprehensive SCRCA Regulations Policy including an Inference to Watercourses section is finalized (ongoing).

Administration of service:

- Similar to the DART protocol review process approved by the Board April 18, 2014, Biology Section staff completed the drain enclosure review and reporting with ratification by Planning and Regulations Section/ Regulations Officer. (This administrative process was a natural transition as a result of the former Department of Fisheries and Oceans agreements). As with the DART protocol, SCRCA Ontario Regulation 171/06 “Development, Interference with Wetlands & Alterations to Shorelines & Watercourses” applies to municipal drain enclosures and a proposed Drain Enclosure Policy and guideline would be followed for streamlining purposes. The impacts to flooding and erosion studies, if required, would require review by the SCRCA Engineer. Appropriate review fees would apply in these cases.

The following motion was carried. “That the Board of Directors acknowledges this report dated August 30, 2017, on the need for O. Regulation 171/06 written permission for

drain enclosures and supplemental guidelines and directs SCRCA staff to require O. Regulation 171/06 permission for Drain Enclosures and further that fees be recuperated based on current SCRCA Regulation Fees.”

Background (From September 2017 to June 2019 and to Present)

- September 21, 2017 to August 2018;
 - SCRCA staff at drain meetings (onsite or information meeting) or notified thru written correspondence, provided drainage superintendents with information that a SCRCA O.R. 171/06 review is required under Drain Enclosure Policy, for drain enclosures and that the SCRCA generally does not support enclosures, email follow-up generally given with Regulations Officer contact info;
- August 2018 to June 2019 and to Present;
 - SCRCA staff provide formal written comments with a copy of the Drain Enclosure Policy outlining if the type of enclosures would be permitted by SCRCA staff, and explaining how the Drain Enclosure Policy is implemented;

Background (From June 27, 2019 Board Report)

The SCRCA Drain Enclosure Policy, SCRCA Municipal Drainage Act Review Process Cover Letter, and SCRCA Municipal Drainage Act Review Process was sent to municipal representatives and drainage superintendents via email on June 17, 2019, and reported to the SCRCA Board at our June 27, 2019 meeting. See board report 12.5 in June 27, 2019 board package.

The SCRCA outlined it is committed to ongoing and improved engagement with the Municipality on our Drainage Act Review Process and offers an open invitation to meet and/or discuss any questions or comments they may have.

The information outlined that SCRCA Biology Department staff completing Municipal Drain review has recently completed regulations training to be qualified as a Provincial Offences Officer. This will enable the SCRCA to provide an improved level of service and efficiency by having a regulations trained staff member dedicated to Municipal Drain review. This allows the SCRCA to have a single point of contact to provide regulations review and approvals on all drain related matters.

Background (September 19, 2019 Board Meeting)

Directors asked that the drain enclosure policy be brought to the Board of Directors meeting for review.

Next Steps

There has been ongoing discussions with the SCRCA Board and our member municipalities/drain superintendents on the implementation of the Drain Enclosure Policy. Staff of the SCRCA understands that better communication, education and consultation is required around the Drain Enclosure Policy to improve our regulatory review process.

SCRCA staff recommend that engagement/consultation with our watershed drainage superintendents and municipal representatives for comments on the policy be undertaken.

Financial Implications:

Fees will be recuperated based on current SCRCA Regulation Fee's.

Conservation Strategy

Supports Goals 1, 2 and 3 of Strategic Plan

SCRCA SECTION 28 DRAIN ENCLOSURES POLICY

SCRCA Policies and Procedures of Administration of Section 28 Regulations

Drain Enclosures Policies

Drainage Act

The Drainage Act is administered by the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and is implemented by the local municipality. The Drainage Act defines the terms by which a drainage project may be initiated and prescribes the various stages of the procedure (e.g. engineer's report, consultation, appeals, construction) that must be followed by municipalities in the development of municipal drainage infrastructure. The local municipality is also responsible for the maintenance, repair and management of the drainage systems that are developed through this procedure.

Since 1949, drainage petitions for new drains and improvements to existing drains are circulated to Conservation Authorities (CAs) for comment as required under the Drainage Act S. 4 and S. 78 respectively. Under section 4 of the Drainage Act, the local municipality, CAs, or Ministry of Natural resources may require an environmental appraisal for new drainage works, the cost thereof shall be paid by the party who requested it. Once an engineer's report has been drafted for the proposed drainage works, the Drainage Act provides CAs with a right to appeal the proposed project to the Drainage Tribunal.

As some drains meet the definition of a 'watercourse' under Section 28 of the CA Act, CA written permissions (permits) may be required for new drainage works and drain improvements, maintenance and repair activities, as per the Drainage Act and Conservation Authorities Act Protocol (DART)

The DART Protocol has been developed to provide provincially-approved guidance to conservation authority staff and municipal representatives (e.g. drainage superintendents) regarding the most appropriate practices and permit requirements for municipal drain maintenance and repair activities. The protocol includes a set of Standard Compliance Requirements for regular repair and maintenance activities that, if followed, would serve as the written permission to proceed with work under the CA Act. As such, it allows for a streamlining of the approval process from an administrative perspective.

Interference with a Watercourse

Watercourses are defined under the CA Act, as an identifiable depression in the ground in which a flow of water regularly or continuously occurs. A watercourse also includes municipal drains, and intermittent or ephemeral creeks. Watercourses are dynamic, living systems with complex processes that are constantly undergoing change.

The area along both sides of any river, creek, stream or watercourse, called the riparian zone, not only provides habitat for a wide range of flora and fauna, it also filters surface runoff before it reaches open waterways. As runoff passes through, the riparian zone retains excess nutrients, some pollutants and reduces the sediment flow. A healthy zone can also keep stream flow going even during the dry seasons, by holding and releasing groundwater back into the stream. This interface between terrestrial and aquatic environments acts as a sponge for storing water, which in turn helps to reduce flooding and shelters the banks against shoreline erosion. Alterations to the channel of a watercourse can negatively impact the hydrologic and ecological features and functions provided by riparian zones.

Watercourses may need to be confirmed by SCRCA through field investigation by considering matters such as flow assessment, channel form and aquatic habitat.

The CA Act and Ontario Regulation 171/06 use the wording “in any way” when describing change or interference with a watercourse. Activities proposed within the watercourse boundary that could interfere in any way with the watercourse, including both those activities that meet the definition of development and those that do not necessarily meet the definition of development are regulated as described in sections 5 and 6 of the regulation. An example of an activity that does not strictly meet the definition of development and could represent interference is vegetation removal. Consistent with the interpretation by MNR/Conservation Ontario Section 28 Regulation Committee (2008) interference in any way is interpreted by SCRCA as any anthropogenic act or instance which hinders, disrupts, degrades or impedes in any way the natural features or hydrologic and ecological functions of a watercourse.

To receive permission to straighten, change, divert or interfere in any way with a watercourse area under SCRCA Ontario Regulation 171/06 it must be demonstrated in an application to the satisfaction of the SCRCA, that the interference will not result in an unacceptable interference in terms of the natural features or hydrologic and ecological functions.

Implementation Guidelines for Drain Enclosures

The following outlines the specific policies for implementing Ontario Regulation 171/06 with respect to Drain Enclosures.

Enclosure – is defined as a pipe or other conduit designed to entomb a watercourse underground, but shall not include crossings. Crossings shall include but are not limited to bridges, culverts, pipelines, and channel enclosures of less than 20 metres (66 feet).

1. In general, drain enclosures are discouraged, but will be permitted where there is an existing risk to public safety and/or potential property damage, where such works would significantly improve existing hydrological or ecological conditions, or where acceptable justification has been provided to the satisfaction of the Conservation Authority that the interference is acceptable on the natural features and hydrologic and ecological functions. Proposed enclosures should generally demonstrate that;
 - a. all feasible alternative options and methods have been explored;
 - b. the risk to public safety is not increased;
 - c. susceptibility to natural hazards is not increased and no new hazards are created;
 - d. there is no negative impact on wetlands;
 - e. there are no negative or adverse impacts on hydrologic and ecological functions,
 - f. the enclosure does not increase floodplain elevations, flood frequency, erosion rates or erosion frequency upstream and/or downstream of the enclosure;
 - g. the enclosure is designed to ensure that the storage capacity of the floodplain is maintained or improved;
 - h. pollution, sedimentation and erosion during construction and post construction is minimized using best management practices including site and infrastructure design, construction controls, and appropriate remedial measures;
 - i. intrusions within or adjacent to the drain are minimized and it can be demonstrated that best management practices including site design and appropriate remedial

September 21, 2017

Version 1

Approved BD-17-111

measures will adequately restore and enhance features and functions to the extent possible;

- j. there is no negative impact on the downstream thermal regime;
- k. there is no inhibition of fish passage and no net loss of fish habitat;
- l. works are constructed, repaired and/or maintained according to accepted engineering principles and approved engineering standards or to the satisfaction of the SCRCA, whichever is applicable based on the scale and scope of the project;

Meeting Date: December 12, 2019
Report Date: November 21, 2019
Submitted by: Donna Blue

Item 14.1

Subject: St. Clair River Area of Concern Update

Recommendation:

That the Board of Directors acknowledges the report dated November 21, 2019, regarding the St. Clair River Area of Concern.

Strategic Objectives(s):

Goal 2 – Protect, manage, and restore our natural systems including woodlands, wetlands, waterways, and lakes.

Remedial Action Plan (RAP) Coordinator

At the end of the summer, Kelly Johnson, RAP Coordinator for the St. Clair River Area of Concern (AOC) accepted a position with the Municipality of Chatham-Kent. In the interim, Donna Blue, Manager of Communications, has been fulfilling the RAP Coordinator role. This will continue until Agreements with Environment and Climate Change Canada (ECCC) and the Ministry of the Environment, Conservation and Parks (MECP) are finalized in the spring.

Canadian RAP Implementation Committee (CRIC)

The CRIC has released their 2012-2017 Report of Accomplishments for the St. Clair River AOC. This document reports on the actions and accomplishments achieved during the 2012-2017 Work Plan period. The report is available in hard copy (upon request) and online at the recently re-designed Friends of the St. Clair River (FOSCR) community group website (www.friendsofstclair.ca).

The CRIC is currently creating a new work plan that will span the years 2017-2022.



Binational Public Advisory Council (BPAC)

The BPAC held a meeting at the Maawn Doosh Gumig Community Centre at Aamjiwnaang First Nation on November 14, 2019.

The meeting focused on the status assessment report for the “*Fish Tumours or Other Deformities*” Beneficial Use Impairment (BUI). A re-designation recommendation was put forth by the CRIC to change its current designation from “Requires Further Assessment” to “Not Impaired”.

Fish Tumours or Other Deformities:

To assess the “*Fish Tumours or Other Deformities*” BUI, two focused fish studies were conducted in the AOC to determine the prevalence of cancerous liver tumours in species of fish collected from the St. Clair River.

Shorthead Redhorse Sucker (2002 – 2006):

Over a four year period, 126 Shorthead Redhorse Suckers (*Moxostoma macrolepidotum*) were collected from the St. Clair River and assessed for liver tumour prevalence. The average age of the fish was 10 and no liver neoplasms were detected in any of the fish collected from the river. In comparison, there was one fish (out of 100 assessed) at the Lake Huron reference site where a liver neoplasm was reported.

Brown Bullhead (2013 – 2014):

Over two years, 60 Brown Bullhead (*Ameiurus nebulosus*) fish were collected from the Walpole Island First Nation delta. The majority of fish were older than five years old and no liver neoplasms were detected. These data were corroborated by the results of a recent sediment study conducted throughout the delta that detected low levels of contaminants.

The Shorthead Redhorse Sucker and Brown Bullhead species of fish were used in this assessment as they 1) are both benthic-dwelling fish who are continuously exposed to local sediment, 2) they do not migrate far from their local habitat and 3) there is extensive information available for both species throughout the Great Lakes.

These studies suggested that the prevalence of liver tumours in the St. Clair River AOC is no greater than un-impacted reference sites (e.g., Lake Huron). No tumours were detected in the two studies which warranted the CRIC to recommend that the “*Fish Tumours or Other Deformities*” BUI on the Canadian side of the St. Clair River AOC be re-designated to “Not Impaired”.

The BPAC passed a motion that accepted the CRIC’s recommendation to re-designate this BUI to “Not Impaired” (with one abstention). The status assessment will move forward in the re-designation process which includes further engagement with local First Nation communities (if required), review by federal, provincial and state senior management, and posting for public comment.

SCRCA Joint Health & Safety Committee Meeting Minutes — Wednesday, Sept 25 2019, 8:30 am			Lower Board Room 205 Mill Pond Cres. Strathroy, ON	
Meeting called by:	JHSC Committee		Type of meeting:	Quarterly
Facilitator:	G. Baxter	Minutes:	Emily De Cloet	
Attendees:	G. Baxter, J. Sharp, D. Cundick, E. De Cloet, G. Wilcox			
Guests:	None.			
Please read:	Minutes from previous meeting & come prepared to present information on your Action Items (see 2.1)		Please bring:	
<i>Agenda Items</i>				
1. Motion to approve July 22 2019 meeting minutes as amended Moved by: Glenn Baxter Seconded By: Jeff Sharp Carried				
2. Business arising from the minutes 2.1 Review of Action Items Dallas Cundick to report on: <ul style="list-style-type: none"> ○ Review of incident/ injury investigation reports since June 22 2019 <ul style="list-style-type: none"> ● July 9 2019 – Heat exhaustion ● Recommendation- review uniform policy to include heat appropriate clothing (breathable wicking material- long sleeve, UV protective, light colour) ○ Health & Safety Manual <ul style="list-style-type: none"> ● Supervisors and ask for area/section volunteers. ● Areas are clearly defined and management to act as fire warden. ○ Electrofishing H&S Policy <ul style="list-style-type: none"> ● Biology to submit draft policy to JHSC Glenn Baxter to report on: <ul style="list-style-type: none"> ○ WHMIS 2015 <ul style="list-style-type: none"> ● Reviewed products with other CA Staff, circulated SDS sheets with staff and requested to update SDS binders. ○ Continued inspections with Warwick, McKeough Dam, A.W. Campbell and McLean Jeff Sharp to report on: <ul style="list-style-type: none"> ○ Evacuation Accountability Policy <ul style="list-style-type: none"> ● Draft Policy – ongoing 				

Greg Wilcox to report on:

- Evacuation Accountability Policy
 - Update from Supervisors meeting re area/ section volunteers
- JHS Training
 - Part 1 September 30 – October 2, Part 2 November 7 – 8
- Henderson – no lunch room.
 - Lunch room would need to be a future installation once budgets are reviewed. Ongoing, pending budget approval.
 - Update re lack of shield guard on grinder. New bench grinder purchased.
- Update on AEDs
 - Lifeguard AED training/ informational posts – Standard first aid is a requirement for a lifeguard, need to confirm that AED training is a component of standard first aid.
 - Request to Foundation – to be presented at October Foundation Meeting.

Emily De Cloet to Report on:

- JHS Training
 - Completed (Part 1 & 2)
- McKeough Dam
 - Shadowing Glenn on inspections
 - Update on final report from external inspector (Girish)
Ongoing – waiting from response from inspector.
- Update on Review of procedures with regards to employee health related scenarios.

3. Area Reports & Workplace Inspections

3.1 Warwick CA – September 25, 2019 – Glenn Baxter

3.2 McLean – July 31, 2019 – Glenn Baxter

3.3 Clark Wright – July 30, 2019 – Jeff Sharp

3.4 SCRCA Office – September 25, 2019 – Jeff Sharp

(Please forward copies to Ashley for binder. Last 2 2018 reports outstanding)

4. New Business

McLeans

- Valid First Aid Certificate
 - Yes, McLean's requires trained first aid staff on site.
- Communication – Is a land line required in the workshop? Does McLean's staff have a mobile phone? Does it get reception in all workplaces?
- SDS requirements
 - Any product that is deemed hazardous needs a SDS.

Ergonomic Inspection

- Was a report issued following April 2019 office inspection? Dallas to inquire.

5. Goals and Objectives in 2019

5.1 To regularly review MOL website to educate ourselves and learn from documented investigations and fines (ongoing)

5.2 To review Health and Safety Manual and make changes as necessary (ongoing)

5.3 To appoint a worker rep. in November, 2020 for a 3-year term,

5.4 Conduct workplace inspections as required (at least one location each month)

5.5 To encourage supervisors to complete safety reviews and 5-point check lists on a more frequent basis (ongoing)

- 5.6 To update the JHSC files on the O drive (ongoing)
- 5.7 To recommend that Supervisors schedule retraining refreshers with their staff, once a month (ongoing) – to be brought to supervisors meeting by management rep
- 5.8 To send occasional Health & Safety Bulletins to all staff (i.e. Hot & Cold Weather Alerts forwarded to all staff as received from Lambton Public Health)

6. Proposed next meeting dates: November 20 2019

7. Adjournment

Moved by: Emily
 Seconded by: Greg
Carried

Misc. Information

Contacts:	Management Chair: Dallas Cundick Co-Chair: Glenn Baxter Workplace Inspectors: Glenn Baxter, Jeff Sharp Worker Reps.: Glenn Baxter, Jeff Sharp, Emily De Cloet Management Rep.: Greg Wilcox Meeting Recorder: Emily De Cloet
------------------	--



November 26, 2019

Signature of Co-chair

Date



November 26, 2019

Signature of Co-chair

Date

Prepared By: Tracy Prince
November 15, 2019

ST CLAIR REGION CONSERVATION AUTHORITY
Statement of Revenue and Expenditure
For the Ten Months Ended 31/10/2019

Item 15.2

	Actual To Date			Annual Budget		Variance from Budget	
	Revenue	Expenditures	Surplus(Deficit)	Revenue	Expenditures	Revenue	Expenditures
Flood Control & Erosion Control	\$1,171,445	\$605,635	\$565,809	\$1,032,200	\$1,032,200	\$139,245	(\$426,565)
Capital Projects/WECI	\$155,000	\$26,468	\$128,532	\$10,000	\$10,000	\$145,000	\$16,468
Conservation Area's Capital Development	\$0	\$19,767	(\$19,767)	\$119,000	\$119,000	(\$119,000)	(\$99,233)
IT Capital	\$16,120	\$1,333	\$14,787	\$19,200	\$19,200	(\$3,080)	(\$17,867)
Equipment	\$59,000	\$36,007	\$22,993	\$72,000	\$72,000	(\$13,000)	(\$35,993)
Planning & Regulations	\$384,026	\$467,681	(\$83,655)	\$487,594	\$487,594	(\$103,567)	(\$19,912)
Technical Studies	\$534,936	\$248,229	\$286,707	\$395,313	\$395,313	\$139,622	(\$147,084)
Recreation	\$1,364,180	\$1,094,945	\$269,235	\$1,329,011	\$1,329,011	\$35,170	(\$234,065)
Property Management	\$214,325	\$151,386	\$62,938	\$243,996	\$243,996	(\$29,671)	(\$92,610)
Education and Communication	\$117,364	\$203,079	(\$85,715)	\$226,640	\$226,640	(\$109,276)	(\$23,561)
Source Water Protection	\$361,557	\$283,381	\$78,176	\$226,000	\$226,000	\$135,557	\$57,381
Conservation Services/Healthy Watersheds	\$868,829	\$494,369	\$374,460	\$503,350	\$503,350	\$365,479	(\$8,981)
Administration/AOC Management	\$921,378	\$730,148	\$191,230	\$1,669,428	\$1,669,428	(\$748,050)	(\$939,280)
	\$6,168,160	\$4,362,431	\$1,805,730	\$6,333,732	\$6,333,732	(\$165,571)	(\$1,971,301)

Notes:

1. Municipal matching, non-matching, and Recreation levies have been invoiced and are recorded in the actual revenue reported above. See General Levy Report for amounts outstanding.
2. The significant variances from budget to actual is reflective of the nature/timing and uniqueness of the particular projects. The variances will reduce and disappear as the year progresses.



ST. CLAIR REGION CONSERVATION AUTHORITY
Cheques November 2019

CHQ. #	DATE	VENDOR	DESCRIPTION	AMOUNT
20798	11/4/2019	Hortico Inc.	Trees - Fall Planting	\$ 6,025.73
20803	11/4/2019	Mitacs Inc	Support for Dam	\$ 11,300.00
20804	11/4/2019	O'Brien, Lisa	Painting at the Dam	\$ 17,911.75
20843	11/19/2019	VALLEY LAWN CARE	Lawn Maintenance	\$ 6,028.55
TOTAL CHEQUE DISBURSEMENTS - BANK #1 -				\$ 41,266.03

INTERNET BANKING November 2019

TRANS #	DATE	VENDOR	DESCRIPTION	AMOUNT
9383	11/30/2019	HYDRO ONE Networks Inc.	Hydro	\$ 21,425.21
9385	11/30/2019	Libro Credit Union - Visa	Employee Expenses	\$ 9,682.42
9386	11/30/2019	OMERS	Pension	\$ 41,409.28
9389	11/30/2019	RECEIVER GENERAL	Source Deductions	\$ 43,053.04
9391	11/30/2019	RWAM Insurance Administrators Inc	Group Benefits	\$ 14,314.19
9396	11/30/2019	WORKPLACE SAFETY & INS. BOARD	WSIB	\$ 5,474.02
TOTAL INTERNET DISBURSEMENTS - BANK NO. 1 -				\$ 135,358.16

Notes:

Visa - Computer purchases (3) - \$5,239.92, Seed purchases - \$840.78, Lake Huron Conference - \$482.77

PAYROLL RUNS

PAYROLL NO. 23	\$	69,883.26	
PAYROLL NO. 24	\$	68,575.28	
PAYROLL NO.			
PAYROLL NO.			
PAYROLL NO.			
PAYROLL NO.			
PAYROLL NO.			
			\$ 138,458.54
TOTAL PAYROLL RUNS -			

TOTAL DISBURSEMENTS - **\$315,082.73**



2019 GENERAL LEVY SUMMARY

MUNICIPALITY	GROSS LEVY	PAID TO DATE	OUTSTANDING
Sarnia	\$ 353,626.00	\$ 353,626.00	\$ 0.00
Chatham-Kent	118,634.00		118,634.00
Brooke-Alvinston Twp.	15,385.00	15,385.00	0.00
Dawn Euphemia Twp.	23,374.00	17,530.50	5,843.50
Enniskillen Twp.	16,921.00	16,921.00	0.00
Lambton Shores M.	45,230.00	45,230.00	0.00
Oil Springs V	1,812.00	1,812.00	0.00
Petrolia T	23,039.00	23,039.00	0.00
Plympton-Wyoming T	48,311.00	48,311.00	0.00
Point Edward V	20,793.00	20,793.00	0.00
St. Clair Twp.	101,551.00	101,551.00	0.00
Warwick Twp.	19,752.00	19,752.00	0.00
Adelaide Metcalfe Twp.	16,811.00	16,811.00	0.00
Middlesex Centre Twp.	19,494.00	19,494.00	0.00
Newbury V	1,396.00	1,396.00	0.00
Southwest Middlesex M.	10,537.00	10,537.00	0.00
Strathroy-Caradoc M.	77,085.00	77,085.00	0.00
TOTAL	\$ 913,751.00	\$ 789,273.50	\$ 124,477.50

ACPC07 - 6312
SWSTM11000_6664794_001 E D

00834



Account Number: **460-16010**
Account Type: Regular Account
For the Period: **October 1 to 31, 2019**
Last Statement: September 30, 2019

Item 15.5

ST. CLAIR REGION CONSERVATION
AUTHORITY
205 MILL POND CRES
STRATHROY ON N7G 3P9

Address Information

255 Queens Avenue
Suite 900
London ON
N6A 5R8



Phone: (519) 679-9490
Website: www.scotiawealthmanagement.com
Branch Manager: Deborah Vafaei

Your Wealth Advisor


Craig Emptage (519) 660-3259
craig.emptage@scotiawealth.com

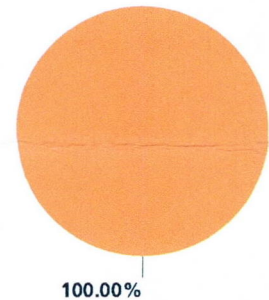
Your Investment Team

Michael Willemse (519) 660-3268
Tammy Jackson (519) 660-3215

CANADIAN Account Overview

Currency: Canadian Dollar

Asset Class Summary	Oct. 31, 2019 Market Value	% of Total Assets
 Fixed Income	772,489	100.00
Total Value of Account	\$772,489	100.00
Total Value on Last Statement, September 30, 2019	\$772,774	



JTA4678459-0003333-00834-0002-0001-00-



Regulated by
Investment Industry Regulatory
Organization of Canada

Details of Your Account Holdings

Type	Security Description	Quantity	Average Cost	Adjusted Book Value	Market Price	Market Value
Fixed Income						
CASH	MACKENZIE GLOBAL TACTICAL INVESTMENT GRADE BD FD SERIES F (4807)	13,315.697	9.978	132,877	9.557	127,258
CASH	MANULIFE STRATEGIC INCOME FUND CL F NL (659)	15,066.595	12.318	185,591	12.141	182,924
CASH	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505)	16,280.409	14.458	235,395	14.177	230,807
CASH	SIGNATURE CANADIAN BOND CORP CLASS EF NL (15137)	21,784.16	10.282	224,002	10.627	231,500
Total Fixed Income						\$772,489
Total Account Holdings				\$777,865	\$772,489	

The average cost and adjusted book value displayed on this statement incorporates re-invested dividends and/or mutual fund distributions and does not necessarily reflect your original purchase price. Please see Average Cost & Adjusted Book Value in the Statement Notes for more information.

Monthly Activity

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
Opening Cash Balance						
\$0.00						
Oct. 01, 2019	CASH	DIVIDEND	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505) REINVEST 09/30/19 @ \$14.1455 PLUS FRACTIONS OF 0.241 BOOK VALUE \$738.98	52		
Oct. 18, 2019	CASH	SELL	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505) PLUS FRACTIONS OF 0.288 SOLICITED	-155	14.1670	2,199.96
Oct. 21, 2019	CASH	DIVIDEND	MACKENZIE GLOBAL TACTICAL INVESTMENT GRADE BD FD SERIES F (4807) REINVEST 10/18/19 @ \$9.5223 PLUS FRACTIONS OF 0.221 BOOK VALUE \$202.08	21		

Monthly Activity - continued

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
Oct. 21, 2019	CASH	FEE	MPP MANAGED PORTFOLIOS GST/HST 86817 6249 RT0001 QST/TVQ 1019148099 TQ0001 TID#0110F000067411 TID#0110F000067411			-2,199.96
Oct. 28, 2019	CASH	DIVIDEND	MANULIFE STRATEGIC INCOME FUND CL F NL (659) REINVEST 10/25/19 @ \$12.0614 PLUS FRACTIONS OF 0.682 BOOK VALUE \$370.07	30		

Closing Cash Balance

\$0.00

Summary

Income Summary

	This Period	Year-to-Date
Total Income	\$0	\$0



Go paperless with Scotia OnLine

ScotiaMcLeod® clients can choose paperless record keeping within Scotia OnLine. Receive monthly statements, trade confirmations, mutual fund prospectuses, annual trading summaries and tax slips, all within the secure environment of your Scotia OnLine account.

To learn more about the ScotiaMcLeod services and features available through Scotia OnLine, please contact your advisor or a member of their team.

A Note From ScotiaMcLeod

Auditor's Message

Our auditors, KPMG LLP, are presently engaged in the examination of our year-end financial statements. Please compare this statement against your records and advise our auditors of any discrepancies: Shareholders' Auditors, Attention: Evita Price, KPMG Audit Team, Bay Adelaide Centre, 333 Bay Street - Suite 4600, Toronto, ON, M5H 2S5, Canada, fax at (416) 777-8818 or email: scotiacapitalconfirm@kpmg.ca

JTA4690952 E D

04591

ST. CLAIR REGION
CONSERVATION AUTHORITY
205 MILL POND CRESCENT
STRATHROY ON N7G 3P9



Non-registered account #440-17189-13

October 31, 2019



Your Investment Report

Account Summary

This table provides an overview of your account; including the opening and closing balance for the reporting period.

Your Investments	Opening Value Oct 1, 2019	Closing Value Oct 31, 2019	Balance on Oct 31, 2019 (CAD\$)
Canadian Dollar Investments			
Cash Account	1,463,920.35	1,463,928.98	1,463,928.98
	1,463,920.35	1,463,928.98	1,463,928.98
Grand Total (CAD\$)			1,463,928.98
		Last Statement Sep 30, 2019	1,463,920.35

Important:

Please examine your account statement carefully and report any errors or omissions to our auditors.

KPMG LLP
Bay Adelaide Centre
333 Bay Street, Suite 4600
Toronto, ON M5H 2S5
Attn: Yash Patel
Fax: (416) 777-8818

You can access up-to-date account information online through BMO Nesbitt Burns Gateway at:
www.gateway.bmonesbittburns.com.
To register for Gateway, please contact your Investment Advisor.

We're here to help

We're dedicated to helping you succeed in meeting all of your wealth management goals. Call any member of our team referenced below if you have questions about **Your Investment Report**.

JONATHAN BATCH
Investment Advisor
519-646-3044

Batch Investment Group
www.batchinvestmentgroup.com
Assistant: Sharon Tingley
sharon.tingley@nbpcd.com

MICHAEL COONEY
Branch Manager
(519) 672-8560

Suite 1900
One London Place
255 Queens Avenue
London, ON N6A 5R8

Non-registered account #440-17189-13

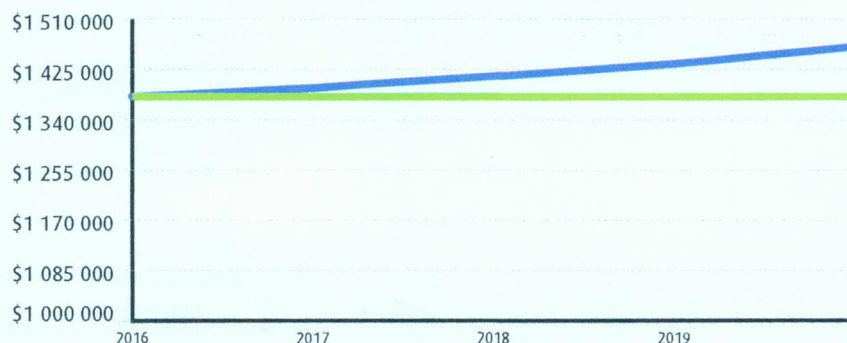
October 31, 2019

▶ Changes to your account

This table provides a summary of the change in value of your account, including all deposits, withdrawals and the change in market value of your investments, for both the current year and as of the start of reporting. Where applicable, balances have been converted to Canadian dollars, see page 1 for exchange rates.

	This Year (2019)	Since January 1, 2016
Opening Value	1,434,690.61	1,379,179.68
Deposited	+ 0.00	+ 0.00
Withdrawn	- 0.00	- 0.00
Net Invested	= 0.00	= 0.00
Change In Market Value	+ 29,238.37	+ 84,749.30
Closing Value on Oct 31, 2019	1,463,928.98	1,463,928.98

Net Invested is the value of total deposits less the value of total withdrawals.



● MARKET VALUE
● NET INVESTED

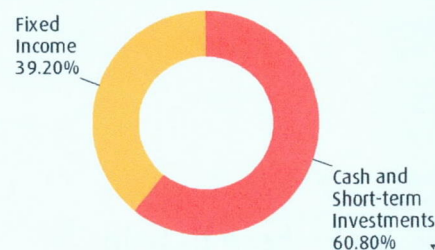
The Change in Market Value of your account since January 1, 2016 is \$84,749.30.

This includes gains, losses and income received with respect to the investments held in your account.

▶ Summary of your investments in Canadian dollars

Your Investor Profile

Investment Objective	Income		
Time Horizon	10 yrs and more		
Investment Category	Amount	Target %	Holdings %
● Cash and Short-term Investments	888,928.98	10.00	60.80
● Fixed Income	575,000.00	90.00	39.20
● Equities	0.00	0.00	0.00
Total	1,463,928.98		100.00



Investments held in your account have been chosen based on objectives you selected on the Client Account Agreement. As your circumstances change, it is important to talk to your Investment Advisor about updating these objectives.

Non-registered account #440-17189-13

October 31, 2019

Your Canadian Dollar Investments

All amounts are reported in Canadian Dollars.

▶ Income you received

Type of Income	Current Month	Year to Date
Interest	8.63	30,765.00
Total	8.63	30,765.00

Under **Income you received**, amounts reported as dividends do not include income from ETFs, REITs and funds even though these transactions are reported as dividends under **Account activity for this month**.

▶ Expenses you paid

Type of Expense	Current Month	Year to Date
Interest	0.00	1,526.63
Total	0.00	1,526.63

Under **Expenses you paid**, amounts reported as interest include accrued interest paid on fixed income purchases. Accrued interest is not reported separately for purchase transactions under **Account activity for this month**.

▶ Your investment details

	Quantity	Cost		Market Value on October 31, 2019	
		Per Unit	Total	Per Unit	Total
Cash Account					
• Cash and Short-term Investments					
CASH			209,928.98		209,928.98
EQUITABLE BANK GIC ANNUAL DUE 12/30/2019 2.220%	100,000	100.000	100,000.00	100.000	100,000.00
CONCENTRA BANK GIC ANNUAL DUE 06/15/2020 2.750%	100,000	100.000	100,000.00	100.000	100,000.00
LBC TRUST GIC ANNUAL DUE 06/15/2020 2.600%	100,000	100.000	100,000.00	100.000	100,000.00
VANCITY GIC ANNUAL DUE 06/15/2020 2.350%	279,000	100.000	279,000.00	100.000	279,000.00
PEOPLES TRUST GIC ANNUAL DUE 08/26/2020 2.160%	100,000	100.000	100,000.00	100.000	100,000.00
Subtotal			888,928.98		888,928.98
• Fixed Income					
Fixed Income					
HOMEQUITY BANK GIC ANNUAL DUE 05/13/2021 2.220%	50,000	100.000	50,000.00	100.000	50,000.00



Non-registered account #440-17189-13

October 31, 2019

Your Canadian Dollar Investments (continued)

All amounts are reported in Canadian Dollars.

▶ Your investment details (continued)

	Quantity	Cost		Market Value on October 31, 2019	
		Per Unit	Total	Per Unit	Total
PRESIDENT'S CHOICE BANK GIC ANNUAL DUE 05/13/2021 2.360%	100,000	100.000	100,000.00	100.000	100,000.00
HOME TRUST COMPANY GIC ANNUAL DUE 05/17/2021 2.540%	100,000	100.000	100,000.00	100.000	100,000.00
BANK OF MONTREAL MORTGAGE CORP GIC ANNUAL DUE 06/28/2021 2.130%	125,000	100.000	125,000.00	100.000	125,000.00
BMO TRUST COMPANY GIC ANNUAL DUE 08/26/2021 2.060%	100,000	100.000	100,000.00	100.000	100,000.00
EQUITABLE BANK GIC ANNUAL DUE 05/17/2022 2.520%	100,000	100.000	100,000.00	100.000	100,000.00
Fixed Income Subtotal			575,000.00		575,000.00
Subtotal			575,000.00		575,000.00
Total for Cash Account			1,463,928.98		1,463,928.98
Total Canadian Dollar Investments			1,463,928.98		1,463,928.98

Average cost and market price indicator descriptions can be found in "Important information about your account".

▶ Account activity for this month

Date	Activity	Description	Quantity	Unit Price	Commission	Amount
Cash Account						
Oct 1, 2019		Opening Cash Balance				209,920.35
Oct 22, 2019	Interest	INTEREST ON CREDIT BALANCE AT 0.050% 09/22 THRU 10/21			0.00	8.63
Oct 31, 2019		Closing Cash Balance				209,928.98

This report includes activity recorded in your account since your last statement. For a more comprehensive listing of your account activity, sign into your BMO Nesbitt Burns Gateway account.

JTA4690952-0027544-04591

Non-registered account #440-17189-13

October 31, 2019

Your Year-to-Date Fees Summary

▶ Fees you paid

This section summarizes all compensation received by BMO Nesbitt Burns with respect to your account. Our compensation comes from two sources: what we charge you directly (Operating and Transaction charges), and payments we receive from third parties.

	CAD (\$)
Operating charges	
Total operating charges	0.00
Transaction charges	
Total transaction charges	0.00
Total fees you paid in 2019	0.00

▶ Payments BMO received from third parties

	CAD (\$)
GIC Commission	2,676.54
Total payments BMO Nesbitt Burns received from third parties in 2019	2,676.54

▶ Bulletin board

The USD/CAD conversion rate is: 1.3165, as of October 31, 2019

See examples of operating charges in "Important Information about your Account". Some fees and charges may be reported as before-tax amounts and applicable tax is reported separately within the 'Sales Tax' line item. Where this is not possible the sales tax is included within the line item.



St. Clair Region Conservation Authority 2020 Budget Summary

	2019 Budget	2020 Proposed Budget	Provincial Grant	Other Grant/Program Funds	Matching Levy	Non Matching Levy
Flood Control Operations and Maintenance	\$535,200	\$415,200	\$108,000	\$12,000	\$108,000	\$109,000
Erosion Control Operations & Maintenance	\$41,000	\$0	\$0	\$0	\$0	\$0
Capital Projects	\$580,000	\$2,860,250	\$0	\$1,060,250	\$0	\$0
Source Protection Planning	\$106,000	\$115,000	\$0	\$115,000	\$0	\$0
Planning and Regulations	\$487,594	\$594,867	\$19,000	\$0	\$19,000	\$267,000
TS - Hazard & Flood Information Management	\$13,500	\$0	\$0	\$0	\$0	
TS - Aquatic systems monitoring	\$375,513	\$288,329	\$0	\$80,000	\$0	\$34,000
St. Clair AOC Management	\$582,050	\$582,050	\$0	\$582,050	\$0	\$0
Conservation Services	\$509,650	\$836,669	\$0	\$382,000	\$0	\$0
MNR Species at Risk	\$0	\$0	\$0	\$0	\$0	\$0
Conservation Areas	\$1,329,011	\$1,387,233	\$0		\$0	\$13,675
Capital Development	\$119,000	\$119,000	\$0	\$0	\$0	\$0
Property Management	\$243,996	\$245,208	\$0	\$0	\$0	\$0
Information and Education	\$226,640	\$215,010	\$0	\$0	\$0	\$90,000
IT Capital	\$9,600	\$9,600	\$0	\$0	\$0	\$0
Equipment	\$72,000	\$72,000	\$0	\$0	\$0	\$0
Legal	\$1,000	\$0	\$0	\$0	\$0	\$0
Administration	\$1,026,978	\$754,991	\$34,000	\$6,000	\$34,000	\$395,251
Total CA Budget	\$6,258,732	\$8,495,407	\$161,000	\$2,237,300	\$161,000	\$908,926
Employment Programs *	\$75,000	\$75,000	\$0	\$0	\$0	\$0
Total Budget 2020	\$6,333,732	\$8,570,407	\$161,000	\$2,237,300	\$161,000	\$908,926
Total Budget 2019	\$6,333,732	\$6,333,732	\$310,000	\$1,115,145	\$310,000	\$603,751
Percentage of Budget 2020			1.9%	26.1%	1.9%	10.6%

Total Municipal Funding % Excluding Spec Levy

12%

* The Authority assists in the administration of the Employment programs, therefore these items must be approved under the Authority's budget for signing authorization. The funds are only transferred in and out with the Authority having no direct spending controls.

St. Clair Region Conservation Authority 2020 Budget Summary

Special Levy	Revenues	Reserves
St. Clair - McK Maint \$2,600 Dam OP CK \$20,900, SC \$1,100 C-K- McK Maint - \$49,400, Arda - \$1,000	Carryforwards - \$3,200	\$0
		\$0
\$1,460,000 NDMP apportioned \$135,000	Carryforwards - \$205,000	\$0
\$0	\$0	\$0
	Fees - \$219,162 Carryforward - \$2,025	\$68,680
\$0	\$0	\$0
\$0	Carryforward \$163,329 Fees - \$11,000	\$0
\$0	\$0	\$0
\$0	Fees - \$238,000 Carryforward \$216,669	\$0
\$0	\$0	\$0
Shetland - Dawn-Euphemia \$9,900 Wawanosh - City of Sarnia \$10,575 Clark Wright - Strathroy-Caradoc \$3,100 Bridgeview - Town of Petrolia \$900 Coldstream - Middlesex Centre \$1,300 Crothers - Chatham-Kent \$3,300 Stranak - Chatham-Kent \$5,900 Peers - Chatham-Kent \$1,650 Strathroy - Strathroy-Caradoc \$27,800 McEwen - Plympton-Wyoming \$12,110 Dodge - Lambton Shores \$1,175	Fees - \$1,246,723 Parking Fees - \$8,000 Other Donations - \$400 Foundation - \$1,000 (Mclean) - \$30,275 Carryforward - \$1,950 Rental Income - \$7,500	\$0
\$0		\$119,000
\$0	Rental Income - \$141,274 County of Lambton - \$18,300 Carryforward - \$2,500 Revenue - \$83,134	\$0
\$0	Fees - \$25,000 Donations - \$60,000	\$40,010
\$0	\$9,600	\$0
\$0	\$72,000	\$0
\$0		\$0
\$0	Rental Income - \$15,000 Interest Income - \$25,000 Foundation - \$15,000 Allocated Admin & IT Costs - \$66,100 Adimn Fees - \$65,500 Other Income - \$49,400 Oil & Gas Revenue - \$40,000	\$9,740
\$1,747,710	\$3,042,041	\$237,430
\$0	\$75,000	\$0
\$1,747,710	\$3,117,041	\$237,430
\$425,835	\$3,139,240	\$429,761
20.4%	36.4%	2.8%

Schedule "B"

2020 General Levy Assessment

Municipality	2019 Current Value Assessment (modified) in Watershed	2019 CVA Apportionment %
Township of Adelaide Metcalfe	\$ 417,217,351	1.8398%
Township Brooke-Alvinston	\$ 381,810,261	1.6837%
Municipality Chatham-Kent	\$ 2,944,257,785	12.9832%
Township Dawn-Euphemia	\$ 580,082,657	2.5580%
Township Enniskillen	\$ 419,939,924	1.8518%
Municipality Lambton Shores	\$ 1,122,502,776	4.9499%
Municipality Middlesex Centre	\$ 483,809,439	2.1334%
Village Newbury	\$ 34,647,385	0.1528%
Village Oil Springs	\$ 44,961,487	0.1983%
Town Petrolia	\$ 571,783,579	2.5214%
Town Plympton-Wyoming	\$ 1,198,973,962	5.2871%
Village Point Edward	\$ 516,044,830	2.2756%
City Sarnia	\$ 8,776,269,841	38.7005%
Municipality Southwest Middlesex	\$ 261,523,066	1.1532%
Township St. Clair	\$ 2,520,273,450	11.1136%
Township Strathroy - Caradoc	\$ 1,913,077,444	8.4361%
Township Warwick	\$ 490,204,969	2.1616%
	\$ 22,677,380,206	100%

2020 Municipal General Levy : \$156,175 increase over 2019

CVA Apportionment is based on information provide from the Ministry of Natural Resources and Forestry

2020 Current Value Assessment (modified) in Watershed	2020 CVA Apportionment %	2019 General Levy	2020 General Levy	2019/2020 General Levy Increase
\$ 446,013,006	1.8762%	\$ 16,811	\$ 20,074	\$ 3,263
\$ 414,629,229	1.7442%	\$ 15,385	\$ 18,662	\$ 3,277
\$ 3,089,606,470	12.9967%	\$ 118,634	\$ 139,055	\$ 20,420
\$ 638,772,400	2.6871%	\$ 23,374	\$ 28,750	\$ 5,376
\$ 449,738,121	1.8919%	\$ 16,921	\$ 20,242	\$ 3,321
\$ 1,174,999,448	4.9427%	\$ 45,230	\$ 52,883	\$ 7,653
\$ 523,174,255	2.2008%	\$ 19,494	\$ 23,547	\$ 4,053
\$ 36,673,623	0.1543%	\$ 1,396	\$ 1,651	\$ 255
\$ 47,167,449	0.1984%	\$ 1,812	\$ 2,123	\$ 311
\$ 599,492,558	2.5218%	\$ 23,039	\$ 26,981	\$ 3,942
\$ 1,277,134,022	5.3724%	\$ 48,311	\$ 57,481	\$ 9,170
\$ 525,344,072	2.2099%	\$ 20,793	\$ 23,644	\$ 2,851
\$ 9,055,620,007	38.0933%	\$ 353,626	\$ 407,570	\$ 53,943
\$ 275,637,456	1.1595%	\$ 10,537	\$ 12,406	\$ 1,869
\$ 2,662,087,589	11.1983%	\$ 101,551	\$ 119,814	\$ 18,263
\$ 2,031,839,435	8.5471%	\$ 77,085	\$ 91,448	\$ 14,363
\$ 524,296,651	2.2055%	\$ 19,752	\$ 23,597	\$ 3,845
\$ 23,772,225,791	100%	\$ 913,751	\$ 1,069,926	\$ 156,175

