



**Grand River Conservation Authority
Agenda - General Meeting**

Friday, January 28, 2022

9:30 a.m.

GRCA Zoom Virtual Meeting

Link to be distributed via email prior to meeting

Pages

1. Call to Order

2. Certification of Quorum

3. Chair's Remarks

4. Review of Agenda

THAT the agenda for the General Membership Meeting be approved as circulated.

5. Declarations of Pecuniary Interest

6. Minutes of the Previous Meeting

1

THAT the minutes of the General Membership Meeting of December 17, 2021 be approved as circulated.

7. Business Arising from Previous Minutes

8. Hearing of Delegations

a. Pheasant Hunt Program at Conestogo Lake Conservation Area

11

Mario Coniglio

Jim Baker, Ontario Grand River Chapter, North American Versatile Hunting
Dog Association

Tony Jackson - Ontario Federation of Anglers and Hunters

9. Presentations

10. Correspondence

THAT Correspondence from the Honourable Greg Rickford regarding conservation authority assistance in relation to flooding in British Columbia, and from O:se Kenhionhata:tie Land Back Camp regarding the relationship between the Grand River Conservation Authority and the Land Back Camp, be received as information.

- a. The Honourable Greg Rickford, Minister of Northern Development, Mines, Natural Resources and Forestry Re: Flooding in British Columbia 24
- b. O:se Kenhionhata:tie Land Back Camp Re: GRCA Relations 25

11. 1st and 2nd Reading of By-Laws

12. Reports:

- a. Minutes of the Ad-Hoc Conservation Authorities Act Committee - January 14, 2022 28

THAT the Minutes of the Ad-hoc Conservation Authorities Act Committee held on January 14, 2022 be received as information.
- b. GM-01-22-04 - Draft Inventory of Programs and Services - Requirement under Ontario Regulation 687/21 31

THAT the Grand River Conservation Authority Draft Inventory of Programs and Services be approved;

AND THAT the Draft Inventory of Program and Services be circulated to all participating municipalities;

AND THAT the Inventory of Programs and Services be presented to the General Membership for approval at the February meeting.
- c. GM-01-22-05 - 2019-2021 Strategic Plan Update 49

THAT Report Number GM-01-22-05 – 2019-2021 Strategic Plan Update be received as information.
- d. GM-01-22-06 - Budget 2022 Draft #2 58

THAT Report Number 01-22-06 - Budget 2022 - Draft #2 be received as information;

AND THAT an amount equal to any undesignated surplus realized from the 2021 year-end operating results be transferred to the Transition reserve at the end of 2021.

- e. GM-01-22-01 - Cash and Investment Status 109
- THAT Report Number GM-01-22-01 Cash and Investment Status – December 2021 be received as information.
- f. GM-01-22-03 - Refuse Collection and Recycling RFP 111
- THAT the Grand River Conservation Authority retain Wasteco to provide waste collection and recycling bin services for Conservation Areas, Head Office and Nature Centers for a term of three years and an option to extend the contract for up to two additional one-year terms.
- g. GM-01-22-02 - Development, Interference with Wetlands and Alterations to Shorelines Regulation 113
- THAT Report Number GM-01-22-02 – Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation be received as information.
- h. GM-01-22-08 - Speed River Hydraulic Model Development Contract Award - Stantec Consulting 115
- THAT the Grand River Conservation Authority accept the bid from Stantec Consulting Ltd. to carry out the Speed River Hydraulic Model Development at a cost of \$123,439 (excluding HST);
- AND THAT a contingency of 10% be included in the overall project budget for a total project budget of \$135,769 (excluding HST).
- i. GM-01-22-07 - Current Watershed Conditions 118
- THAT Report Number GM-01-22-07 – Current Watershed Conditions as of January 19, 2022 be received as information.

13. Committee of the Whole

14. General Business

15. 3rd Reading of By-Laws

16. Other Business

17. Closed Meeting

THAT the General Membership enter a closed meeting in accordance with the *Municipal Act section 239(2)* for the following purpose(s): a proposed or pending acquisition or disposition, security of property and advice that is subject to solicitor-client privilege.

- a. Minutes of the previous closed session
- b. Proposed or pending acquisition or disposition - County of Brant
- c. Security of property and Advice that is subject to solicitor-client privilege

18. Election of Officers

- a. Appointment of Scrutineers - Motion Required
- b. Election of Chair
 - 1. Call for Nominations
 - 2. Motion to close nominations for Chair
THAT nominations for the position of Chair of the Grand River Conservation Authority General Membership be closed.
 - 3. Virtual Voting Submissions & Collection by Scrutineers
 - 4. Announce Election Results
 - 5. Motion to Destroy Virtual Voting Submissions (if required)
- c. Election of Vice-Chair
 - 1. Call for Nominations
 - 2. Motion to close nominations for Vice-Chair
THAT nominations for the position of Vice-Chair of the Grand River Conservation Authority General Membership be closed.
 - 3. Virtual Voting Submissions & Collection by Scrutineers
 - 4. Announce Election Results
 - 5. Motion to Destroy Virtual Voting Submissions (if required)

19. Next Meetings

- Ad-hoc Conservation Authorities Act Committee - Wednesday, February 16, 2022 at 9:00 a.m.
- Audit Committee - Wednesday, February 16, 2022 at 9:30 a.m.
- Annual General Meeting of the General Membership - Friday, February 25, at 9:30 a.m.

20. Adjourn

Regrets only to:

Office of the CAO, Email: espencer@grandriver.ca Phone: 519-621-2763 ext. 2200



Grand River Conservation Authority Minutes - General Membership Meeting

Date: December 17, 2021
Time: 9:30 am
Location: GRCA Zoom Virtual Meeting

Members Present Les Armstrong, Bruce Banbury, Robert Bell, Richard Carpenter, John Challinor II, Brian Coleman, Bernie Corbett, Kevin Davis, Cathy Downer, Jim Erb, Susan Foxton, Guy Gardhouse, Joan Gatward, Helen Jowett, Daniel Lawrence, Ian MacRae, Kathryn McGarry, Joe Nowak, Jerry Smith, Warren Stauch, Bruce Whale, Chris White

Regrets Marcus Adili, Michael Harris, Geoff Lorentz, Jane Mitchell

Staff Samantha Lawson, Karen Armstrong, Dwight Boyd, Beth Brown, Krista Bunn, Nancy Davy, Brandon Heyer, Sonja Radoja, Lisa Stocco, Pam Walther-Mabee, Eowyn Spencer, Mark Anderson, Greg Meredith, Ron Wu-Winter, Tim Patterson, Stephanie Shifflett

1. Call to Order

The Chair called the meeting to order at 9:30 a.m.

2. Certification of Quorum

The Secretary-Treasurer confirmed quorum with more than half of the Members present. A total of 22 Members attended the meeting.

3. Chair's Remarks

The Chair welcomed the Members and made the following remarks:

- On December 13, staff presented the draft 2022 budget to Wellington-North Council with Bruce Whale in attendance for the meeting.
- Also on December 13, Samantha and the Chair attended Conservation Ontario held a regular Council meeting. Key agenda items included the regulatory changes under the CA Act and best practices and plans for implementing the new regulations.
- The Chair thanked the Board and GRCA staff for their continued support and dedication in 2021, and provided best wishes for a happy holiday season.

4. Review of Agenda

21-184

Moved By Bernie Corbett

Seconded By Brian Coleman

THAT the agenda for the General Membership Meeting be approved as circulated.

Carried

5. Declarations of Pecuniary Interest

There were no declarations of pecuniary interest made in relation to the matters to be dealt with.

6. Minutes of the Previous Meeting

21-185

Moved By Warren Stauch

Seconded By Cathy Downer

THAT the minutes of the General Membership Meeting of November 26, 2021 be approved as circulated.

Carried

7. Business Arising from Previous Minutes

There was no business arising from the minutes of the previous meeting.

8. Hearing of Delegations

There were no Delegations.

9. Presentations

K.McGarry joined the meeting at 9:34 a.m.

9.1 Outdoor Environmental Education Update - Opportunities and Challenges in Adapting to COVID-19

- Lisa Stocco and Greg Meredith provided a presentation which highlighted how GRCA's outdoor environmental program adapted to changes in programming throughout the pandemic.
- L.Stocco provided a brief overview of the program, noting that the pandemic created opportunities to rethink the program while keeping it aligned with the GRCA's strategic priority of connecting people with the environment through outdoor experiences.
- G. Meredith continued the presentation, providing a detailed overview of the outdoor education program in a virtual setting. The presentation highlighted that pandemic related closures impacted GRCA Nature Centres as students shifted to virtual learning. Staff developed virtual curriculum-based programming that enabled providing environmental education to students in a meaningful way. The program provides a variety of synchronous and asynchronous programming, including live-streamed nature walks and tours, interactive presentations of wildlife and natural areas, and outdoor scavenger hunts and nature applications.

- While COVID restrictions and school closures created challenges, opportunities were created to create new ways of getting people out in nature. The pandemic highlighted the importance of nature and its positive impact on the overall health and well-being of students and individuals.
- Board Members thanked staff for the presentation, and discussed the positive role the Nature Centres and the environmental education program has on watershed communities and future environmental stewardship.
- Following a question from the Board, L.Stocco noted future programming will be impacted by regulatory changes under the CA Act, which will drive discussions on creating financially sustainable education programs and continued partnerships with watershed school boards.

21-186

Moved By Cathy Downer

Seconded By John Challinor II

THAT the Outdoor Environmental Education Program presentation be received as information.

Carried

10. Correspondence

10.1 Ministry of Environment, Conservation and Parks - Chair and Vice Chair Term Limits and Rotations

- Board Members briefly discussed the impact of the Minister's decision to deny the GRCA's request for exceptions to the term limits and rotation requirement of the Chair and Vice-Chair positions.
- The Chair noted that staff will seek clarification from the Province, and that a request can be submitted in future years as well, if determined advisable by the Board.
- Staff will bring additional information to the Board as it arises.

21-187

Moved By Les Armstrong

Seconded By Bruce Banbury

THAT Correspondence from the Honorable David Puccini, Minister of Environment, Conservation and Parks regarding Chair and Vice Chair Term Limits and Rotations be received as information.

Carried

11. 1st and 2nd Reading of By-Laws

None.

12. Reports:

12.1 Minutes of the Ad-Hoc Conservation Authorities Act Committee - December 3, 2021

21-188

Moved By Bernie Corbett

Seconded By Jerry Smith

THAT the Minutes of the Ad-hoc Conservation Authorities Act Committee meeting of December 3, 2021 be received as information.

Carried

12.2 GM-12-21-100 - Transition Plan - Requirement under Ontario Regulation 687/21

- The Chair thanked staff for their work on putting the transition plan together.

21-189

Moved By Guy Gardhouse

Seconded By Ian MacRae

THAT the Grand River Conservation Authority Transition Plan be approved;

AND THAT the Transition Plan be circulated to all participating municipalities and the Ministry of Environment, Conservation and Parks.

Carried

12.3 GM-12-21-89 - Chair's Report of the Audit Committee

21-190

Moved By Susan Foxton

Seconded By Daniel Lawrence

THAT the Report of the Audit Committee be received as information.

Carried

12.4 GM-12-21-90 - Budget 2022 Levy Notifications to Member Municipalities

21-191

Moved By John Challinor II

Seconded By Joan Gatward

THAT a letter be sent to participating municipalities on January 24, 2022 advising them of the General Membership meeting to be held on February 25, 2022 to approve the 2022 Budget and the municipal levy;

AND THAT the GRCA 2022 Budget Draft #2, which will be presented at the General Membership meeting on January 28, 2022 be included with the letter.

Carried

12.5 GM-12-21-95 - Labour Relations Steering Committee

21-192

Moved By Warren Stauch

Seconded By Ian MacRae

THAT John Challinor be appointed as a Member of the ad-hoc Labour Relations Steering Committee.

Carried

21-193

Moved By Ian MacRae

Seconded By Susan Foxton

THAT an ad-hoc committee be formed, called the Labour Relations Steering Committee, comprised of the Chair, the Vice-Chair and one other to be named by the General Membership, and the Chief Administrative Officer;

AND THAT the role of this steering committee will be to provide direction to the management negotiating team, regarding the negotiation of a new Collective Agreement effective January 1, 2022.

Carried

12.6 GM-12-21-93 - Per Diems and Honorariums for 2022

21-194

Moved By Joe Nowak

Seconded By Daniel Lawrence

THAT Report Number GM-12-21-93 – Per Diems and Honorariums for 2022 be received as information.

Carried

12.7 GM-12-21-97 - Cash and Investment Status

21-195

Moved By Joan Gatward

Seconded By Bruce Whale

THAT Report Number GM-12-21-97 Cash and Investment Status – November 2021 be received as information.

Carried

12.8 GM-12-21-98 - Financial Summary

- B.Whale inquired as to whether staff have considered electrical or hybrid vehicles for fleets. S.Lawson noted that an environmental policy from an operational perspective will be developed as part of the future strategic plan update. K.Armstrong added that this consideration has been included in draft RFPs for upcoming vehicle purchases and that staff will be looking to incorporate this going forward.

21-196

Moved By John Challinor II

Seconded By Cathy Downer

THAT the Financial Summary for the period ending November 30, 2021 be approved;

AND THAT \$100,000 be transferred to the Personnel reserve;

AND THAT \$100,000 be transferred to the Forestry reserve.

Carried

12.9 GM-12-21-94 - Firewood Supply Tender Results

- B.Corbett inquired about why there was only one bid, and P.Walther-Mabee responded that no particular reason was readily evident. Past bidders were engaged and the required open bid process was followed in accordance with GRCA's purchasing policy.

21-197

Moved By Susan Foxton

Seconded By Richard Carpenter

THAT the Grand River Conservation Authority award the tender for the supply of firewood for the 2022, 2023 and 2024 camping seasons to Gerber's Firewood for the estimated sum of \$481,380.00 over a three year period (excluding HST).

Carried

12.10 GM-12-21-101 - Guelph Lake City Link Trail Improvements

- B.Bell highlighted that this project was originally initiated by the Rotary Club of Guelph as part of their centennial projects, and noted that the full project was unable to be completed at that time. The overall project costs have increased over time and previously allocated funding is insufficient to complete the portion of the trail as noted in the staff report. B.Bell added that alternative funding sources are being investigated.
- Board Members discussed the project and inquired about original budget estimates. K.Armstrong shared that the original agreement with the Rotary Club was based on estimates as opposed to a full understanding of the scope and challenges specific to the location of the project.
- S.Lawson confirmed that the Rotary Club is aware of the shortfall, and is in agreement with proceeding with the recommendation of GRCA staff.

21-198

Moved By Brian Coleman

Seconded By Bob Bell

THAT the Grand River Conservation Authority award the tender for the City Link Trail in Guelph to Roubos Farm Service Ltd. of Moorefield, Ontario for the amount of \$206,498.63 excluding HST;

AND THAT a total budget of \$230,000.00 excluding HST be approved.

Carried

12.11 GM-12-21-92 - New Guelph Lake Nature Centre Update and Preliminary Redesign

- L.Stocco and B.Heyer provided a presentation on the New Guelph Lake Nature Centre project.

- L.Stocco provided a brief overview of the history of the Nature Centre and work completed thus far on the learning grounds for the new Nature Centre.
- B.Heyer continued the presentation, highlighting details of the preliminary redesign of the new Nature Centre building and the overall project budget.
- Considerations for the redesign included available funding, maintaining accessible outdoor spaces, incorporating the importance of new technology and future program needs, appropriate ventilation as a pandemic precaution and general health and safety, as well as allowing for possible future expansion projects.
- Next steps for the project include moving forward with detailed drawings, seeking permit approvals, and prequalifying general contractors. It is estimated that the project will be ready to go to tender in late summer of 2022.

21-199

Moved By Bob Bell

Seconded By Cathy Downer

WHEREAS the GRCA remains committed to supporting the construction of a new Guelph Lake Nature Centre;

THEREFORE BE IT RESOLVED THAT staff proceed with obtaining revised detailed design plans, and seeking planning and permit approvals.

Carried

12.12 GM-12-21-96 - LDD Moth Update

- R.Wu-Winter provided a presentation on the LDD Moth, formerly known as the Gypsy Moth.
- The introduced invasive species are an aggressive species that have been found across the watershed for several years, and can cause significant damage to tree populations.
- The presentation highlighted the cyclical nature and trend activity of the moth, showing a spike in populations in 2020 and 2021. Typically, outbreak cycles are followed by a population crash due to biological factors and natural trends.
- In 2020 and 2021, some GRCA properties were sprayed to mitigate the damage caused by the moth, and information with respect to mitigating damage on private properties has been provided to the Board and is available on the GRCA's website.
- Board Members thanked R.Wu-Winter for the presentation and discussed the impact of the moth on trees throughout the watershed and inquired about anticipated trends for 2022.
- R.Wu-Winter responded to questions, highlighting that experts expect that populations will decrease in the near future due to the natural cycle of the moth.

21-200

Moved By Kathryn McGarry

Seconded By Cathy Downer

THAT Report Number GM-12-21-96 – LDD Moth Update be received as information.

Carried

12.13 GM-12-21-91 - Grand River Watershed Flood Warning System

21-201

Moved By Brian Coleman

Seconded By John Challinor II

THAT Report Number GM-12-21-91 – Grand River Watershed Flood Warning System be received as information.

Carried

J.Erb exited the meeting at 10:50 a.m.

12.14 GM-12-21-99 - Current Watershed Conditions

- S.Shifflett presented an overview of watershed conditions throughout 2021, highlighting flood events, water levels, overall precipitation, climate trends, GRCA reservoir levels and flow augmentation procedures over the past year
- B.Corbett inquired about high winds on Lake Erie, and S.Shifflett responded that high wind events are predicted to increase in frequency.

21-202

Moved By Richard Carpenter

Seconded By Jerry Smith

THAT Report Number GM-12-21-99 – Current Watershed Conditions as of December 8, 2021 be received as information.

Carried

13. Committee of the Whole

Not required.

14. General Business

There was no General Business.

15. 3rd Reading of By-Laws

None.

16. Other Business

17. Closed Meeting

21-203

Moved By Bernie Corbett

Seconded By Kathryn McGarry

THAT the General Membership enter a closed meeting to discuss a confidential matter.

Carried

21-204

Moved By Susan Foxton

Seconded By Bruce Banbury

THAT the General Membership return to open session.

Carried

17.1 Minutes of the previous closed session

21-205

Moved By Les Armstrong

Seconded By Kathryn McGarry

THAT the minutes of the previous closed session be approved as circulated.

17.2 Proposed or pending disposition or acquisition - Town of Erin

21-206

Moved By Brian Coleman

Seconded By Cathy Downer

IN ORDER TO FURTHER THE OBJECTS OF the Grand River Conservation Authority by raising funds through the disposition of surplus lands,

THEREFORE IT BE RESOLVED THAT the Grand River Conservation Authority sell the lands described as Part of Lot 11 Concession 1 Erin being Part 2 Plan 61R21799 Town of Erin, municipally known as 5319 Eramosa-Erin Townline, Erin, comprised of 2.12 acres (0.86 hectares), to Holly Elizabeth Fischer and Benjamin James Stocker Fischer, at the offered price of \$1,107,000.00.

Carried

18. Next Meetings

General Membership & Election of Officers - January 28, 2022 at 9:30 a.m. - Election of Officers

19. Adjourn

Board Members wished Mayor Armstrong a Happy Birthday.

21-207

Moved By Kathryn McGarry

Seconded By Guy Gardhouse

THAT the meeting of the General Membership be adjourned.

Carried

The meeting was adjourned at 11:07 a.m.

Chair

Secretary-Treasurer

Pheasant Hunt Program at Conestoga Lake Conservation Area

Presentation at the January 28, 2022 meeting
of the GRCA Board of Directors

Delegation members

- Mario Coniglio (contact: coniglio@uwaterloo.ca)
- Jim Baker – Ontario Grand River Chapter, North American Versatile Hunting Dog Association (OGR – NAVDHA)
- Tony Jackson – Ontario Federation of Anglers and Hunters (OFAH)

Presentation Outline

- **Background:** upland bird hunting in Ontario, the pheasant hunting program at Conestoga Lake
- **Cancellation of the pheasant hunt:** basis for decision, GRCA strategic priorities
- **Program delivery:** financial/operational model, alternative models
- **Conclusion:** request to the Board

Background: Upland Birds in Southern Ontario

- Pheasants and Gray Partridge populations once thrived in farm country of southern Ontario
- Pheasants regularly hunted until early to mid 70's in K-W area; scattered populations remain in Niagara and Southwestern Regions
- Pheasants and Gray Partridge populations have declined significantly due to urbanization, intensive agricultural practices, loss of wetlands

Background: the Pheasant Hunt Program at Conestoga Lake Conservation Area

- Started in mid 1970s
- In 2020, the pheasant program was one of several hunting programs at Conestoga Lake (including deer, small game, migratory birds)
- Participation in all hunting programs involves paying substantial fees
- Hunters must be members of the Ontario Federation of Anglers and Hunters (OFAH) in order to have insurance coverage

2020 Fee Schedule

Hunting Fees*

Pheasant Small Game/ Migratory Birds	\$280.00
Deer Archery Only**	\$190.00
Deer Archery and Controlled Hunt**	\$320.00
The Quad**:	
Pheasant Small Game/ Migratory Birds/Deer	\$400.00
Grand Slam**:	
Pheasant Small Game/ Migratory Birds/Deer/ Fall Turkey.....	\$420.00

Cancellation of Pheasant Hunt

(email sent April 22, 2021)

“The decision not to renew the contract to purchase pheasants is part of an **overall operational review of our programs** based on recent changes to the Conservation Authorities Act and to **ensure these programs align with our [strategic priorities](#)**. This suspension only impacts our pheasant hunting program and all other hunting programs remain in place at this time.”

The decision to cancel was made:

- without transparency, consultation or consideration of impact to stakeholders
- without pressure-testing current operational model
- *without consideration of alternative models that could address what led to the cancellation in the first place*

Cancellation of Pheasant Hunt

The GRCA's **four strategic priorities in the** Strategic Plan 2019-2021 are:

1. Protect life and minimize property damage from flooding and erosion
2. Improve the health of the Grand River watershed
3. *Connect people to the environment through outdoor experiences*
4. Manage landholdings in a responsible and sustainable way

Pheasant Hunt in 2020: Cost of Program Delivery

- 125 permits (limit) @ \$280/ea = **\$35,000**
- # of pheasants purchased = 1600, total cost = **\$16,160**
- Net revenue = **\$18,840** minus administrative & logistical costs
- Administrative costs: incremental to existing hunting program costs (permit process is online only, therefore a minor cost)
- Logistical costs: related to supplier (transportation, frequency of distribution of birds)

The Pheasant Hunt Program model in 2020

- Pheasants were stocked in multiple areas of the Conestoga Lake area
- 2 releases each week, with a 2 bird limit per hunter per day
- Hunt ran from early October to early December
- Volunteers were not involved

The Pheasant Hunt Program model in 2020

Example of a possible alternative model

- Pheasants were stocked in multiple areas of the Conestoga Lake area – STOCK IN FEWER AREAS (DECREASING WORK & COST)
- 2 releases each week, with a 2 bird limit per hunter per day
- Hunt ran from early October to early December
- Volunteers were not involved – PARTNER WITH VOLUNTEERS

Alternative Pheasant Hunt models

- Should involve **collaboration** between GRCA and a *hunter liaison committee* to develop and implement a sustainable business plan
- **Volunteers** should take on key logistics (weekly transportation of birds from local supplier, distribution of pheasants, etc.).
 - There is a **large pool of potential volunteers** (OGR-NAVHDA, local OFAH, etc.)
 - This would lead to increased revenue and decreased use of GRCA resources

Alternative Pheasant Hunt models

- Should be informed by **best practices** from other volunteer-assisted / user-supported programs in Ontario (e.g., Hullett Marsh, Tiny Marsh, Norfolk County)
- **Revenue generated** could be used for habitat improvement, supporting other outdoor programs, etc.
- Local businesses benefit (food, accommodation, fuel)

Concluding Comments

- There is increasing demand for upland hunting (and related dog training) opportunities, including from women, millennials, and racialized individuals
- “Put and take” pheasant hunting at Conestoga Lake is no different than the “put and take” fishing opportunities provided by the GRCA
- GRCA is the largest owner of publicly accessible land in the area. The upland hunting community pays taxes that support GRCA and deserves valuable recreational opportunities as do all other local taxpayers.

Conclusion: Request to GRCA's Board of Directors

Direct the appropriate GRCA personnel to engage with stakeholders to re-establish a *hunting liaison committee*

- to develop a sustainable pheasant hunt program for the Conestoga Lake Conservation Area
- to report back to the Board of Directors in 4 months

"We listen and learn from others. We value a wide range of perspectives and recognize that progress requires flexibility, and a commitment to sharing ideas and working together."

(from GRCA's "Vision, Mission and Values" webpage)

**Ministry of Northern
Development, Mines,
Natural Resources and
Forestry**

Office of the Minister

99 Wellesley Street West
Room 6630, Whitney Block
Toronto ON M7A 1W3
Tel: 416-314-2301

**Ministère du
Développement du Nord,
des Mines, des Richesses
naturelles et des Forêts**

Bureau du ministre

99, rue Wellesley Ouest
Bureau 6630, Édifice Whitney
Toronto ON M7A 1W3
Tél.: 416 314-2301



January 5, 2022

Andy Mitchell
Chair
Conservation Ontario
amitchell@selwyntownship.ca
and
Kim Gavine
General Manager
Conservation Ontario
kgavine@conservationontario.ca

Dear Andy Mitchell and Kim Gavine:

I am writing to express my sincere appreciation for the support shown by conservation authorities in responding to British Columbia's state of emergency due to flooding. The flooding in British Columbia has devastated people and property and disrupted the flow of goods and services across the country. While the storm event has come to an end, additional rain continues to make recovery a challenge.

The expertise within conservation authorities is well acknowledged across the country, recognized most recently by a call for support from British Columbia with their flood monitoring and response efforts. I am pleased to see this reputation acknowledged and commend conservation authorities for their leadership in responding to this request.

The effects of this significant weather event are a solemn reminder of the widespread flooding that occurred throughout much of southern Ontario in 2019. Ontarians pulled together to support those impacted and identified the important work all levels of government play in flood management, as well as that of water management partners like conservation authorities.

Thank you again for your commitment to supporting British Columbia in their time of need.

Sincerely,

The Honourable Greg Rickford
Minister of Northern Development, Mines, Natural Resources and Forestry

c: The Honourable David Piccini, Minister of the Environment, Conservation and Parks

Jan 11, 2022

To the Board of the Grand River Conservation Authority,

In early 2021, we began to meet with Denise McGoldrick, City of Kitchener's Infrastructure Services Manager, and Samantha Lawson, GRCA CAO, to discuss a partnership between GRCA and O:se Kenhionhata:tie Land Back Camp (LBC). During the initial meetings, we were led to believe that you, GRCA, would be in full support of this new venture. This included an offer to host the camp in Area 2 of Laurel Creek Conservation Area (LCCA), followed by a walk-through of the site with GRCA staff to discuss how all parties could work together. The disillusionment started after Land Back Camp set up camp in Area 2 of LCCA in the early spring.

Your refusal to create your own public statement to announce the new partnership and the presence of LBC made the camp vulnerable to the uninformed public. You utilized wording from Land Back Camp's website for GRCA's website and for the two signs placed at each end of the camp. Samantha was asked in numerous emails, and in an online meeting, to release a public statement about the presence of Land Back Camp in LCCA. This was met with numerous excuses, as we were told the GRCA board would not meet again until the fall. Land Back Camp was also informed that the LCCA front gate staff would inform visitors to the park that Area 2 was closed off to the public. This was not done. We started to believe that you did not have our best interest in mind.

The signage placed around the perimeter of the camp proved to be insufficient with the persistent disturbances of demanding, entitled, and racist visitors. LBC then placed lawn signs throughout the camp/Area 2 informing visitors that the space was reserved. The racial violence continued, and some of the comments we received included being called "Squatters" and being told "This isn't your land". These comments could have been avoided or reduced if the public was made aware that we were working in "partnership" with you. Because of this, the racial violence resulted in a white supremacist attacking our space on numerous occasions, destroying camp property, and assaulting one of our campers. An online folder was provided to Samantha with pictures and numerous videos of the white supremacist vandalizing our space and attacking a camper. He was banned from the park for only three months and no charges were laid. When we asked Samantha why he was only banned for three months, she replied "The ban is consistent with the protocols we have in place for all of our conservation areas and bans we have issued in the past." This is how GRCA addresses physical violence towards the Queer Indigenous community, by giving the perpetrator a slap on the wrist.

It wasn't until one of our campers was attacked that you created one single post on your Facebook page condemning any violence towards the camp. This was the first and only time that you publicly acknowledged our presence in the park. You make mention of Land Back Camp on your website, but it is hidden and hard to find. The unanswered comments on your single LBC-related Facebook post (see below) are a poignant example of the lack of communication with the public about our presence and partnership that resulted in the exacerbation of anti-Indigenous racial violence. Following the address of these and other issues via email in early September

2021 we have not received a reply nor follow up regarding the outcomes of the GRCA board meetings.

Partnership means that you are actively committed to the work, take the lead of the partners you are working with, and within the context of Indigenous people, are willing to give up power, space, land etc. to both acknowledge and act on the ongoing violence of colonization. While you offered Area 2 for our requested time, you and the other conservation authorities need to go further:

Commit to:

- Work with Six Nations of the Grand River and Mississauga's of the New Credit to develop a co-management structure; ensure the partnership is in a prominent place on the website, social media, park offices and distribution/printed materials
- Raise the Hiawatha flag at entrances of GRCA locations. Currently only the Canadian flag is at the entrances. Lower both during deaths and subsequent residential school grave recoveries
- Increase Indigenous board membership and give existing Indigenous members the right to vote
- Increase employment opportunities for Indigenous people at all levels of GRCA
- Provide free access to conservation areas to Indigenous peoples (#IAAlreadyPaid)
- Place a Territorial Land Acknowledgement on the GRCA website and distribution/printed materials

We look forward to your reply.

Miigwetch Nia:weh

O:se Kenhionhata:tie Land Back Camp





Grand River Conservation Authority Minutes – CA Act Regulations Committee

Date: January 14, 2022
Time: 9:30 a.m.
Location: GRCA Zoom Virtual Meeting
Members Present: John Challinor II, Susan Foxton, Michael Harris, Helen Jowett, Chris White
Staff: Samantha Lawson, Karen Armstrong, Joe Farwell, Sonja Radoja, Eowyn Spencer

1. Call to Order

The meeting was called to order by the Chair at 9:31 a.m.

2. Certification of Quorum

Quorum was confirmed with all Members present.

3. Chair's Remarks

None.

4. Review of Agenda

Moved by: Susan Foxton

Seconded by: John Challinor

THAT the agenda for the Conservation Authorities Act Regulations Committee Meeting be approved as circulated.

Carried.

5. Declarations of Pecuniary Interest

None.

6. Minutes of the Previous Meeting

Moved by: John Challinor

Seconded by: Helen Jowett

THAT the minutes of the previous Conservation Authorities Act Regulations Committee Meeting held on October 29, 2021 be approved as circulated.

Carried.

7. Discussion Items:

7.1. Board Report for January 28 Meeting – Verbal update

S.Lawson provided a brief overview of the Board report that will accompany the draft Programs and Services Inventory, noting that the report will outline the process followed in determining the categorization of levy-funded and non-levy-funded programs, assumptions made throughout the process, and points of clarification regarding justification of program placement within the three categories as defined by the Province.

7.2. Programs and Services Inventory

S.Radoja provided a detailed overview of the draft Programs and Services Inventory, which has been prepared as charts and listings of all GRCA programs and services. Each chart clearly identifies programs for each of the three categories of levy-funded, non-levy-funded, and Board-approved programs and services.

Each chart and category were reviewed, and S.Radoja provided financial details of where assumptions were made, and the justification for allocating funds and programs as presented in the draft listings. It was clarified that some assumptions were required, as the Province has yet to release the phase two regulatory changes, which may further impact how levy can be apportioned, and where it may be allocated on future budgets.

S.Lawson added information throughout the presentation, identifying areas where funding allocations may fluctuate, programs that may shift between categories based on discussions with watershed municipalities and respective agreements, and highlighting for the Committee that there may be categorizations that differ from what other Conservation Areas have determined to be mandatory and non-mandatory. S.Lawson clarified that any discrepancies are generally due to differing program options and the ability to allocate self-generated funds to programs.

The Committee thoroughly discussed program areas and services, and considered the determination for categorizing each item as presented in the draft listing. Discussion items included services that may comprise separate activities that could be considered in two or more categories, programs that will move into category three and options for financing the transition period while a sustainable source of funding is determined, overall impact of the new funding framework on the municipal levy, programs that appear underfunded, and other required deliverables under the regulation.

S.Radoja and S.Lawson responded to questions, and clarified the following items:

- In phase 2 of the regulatory changes, the Province will include legislation that speaks to levy apportionment and fee policies. Assumptions have been made for this draft listing, and it is expected that the phase 2 regulations will impact this draft. The listing will be finalized and submitted to the Province in February, but changes can still occur as a part of the regular reporting structure required within the regulations.
- Programs that look underfunded in this draft are due to the fluctuation in capital expenditures, and do not regularly depend on reserve funds for long-term funding. A note can be added to the listing to highlight the reasoning.
- Six key deliverables are required, and include operations plans and an asset management plan for natural hazard infrastructure, a conservation area strategy, an ice management plan, a watershed-based resource management plan, and a land inventory. These items will be undertaken and completed within the timelines provided in the legislation.

- The Board had previously directed that staff allocate a Transition Reserve fund that can be used as a short-term assistance to provide gap funding while sustainable methods of funding for programs in category three are determined. Further discussion on allocation of any surpluses within the categories will also be required as discussions and agreements with municipalities progress.

S.Radoja continued with the overview and provided details on the methodology used to determine the allocation of overhead or administrative costs, noting that at this time a consistent method was applied as the phase 2 regulations should identify where these items will be placed.

S.Radoja and S.Lawson highlighted that an exercise to apply the draft funding framework as presented to the draft 2022 budget suggested that the updated regulations may have minimal impact on the overall levy.

The Committee agreed that municipalities will want to hear a clear message of the levy impact, and that it should be highlighted in discussions as well as the Board report.

7.3. Listing of Current MOUs/Agreements

A listing of current municipal agreements was provided as information, and will be referenced in the report to the Board. Format and contents of agreements may differ under the new regulations.

7.4. Status of Meetings with Municipalities and Adjacent Conservation Authorities

S.Lawson shared the status of meetings with senior staff at participating municipalities and adjacent conservation authorities.

It was noted that the initial meetings are intended to open a dialogue regarding the regulations, and to identify key contacts at the municipalities who will be handling discussions related to program agreements, leading up to Board and Council approval.

Meetings are progressing well and the GRCA is seeing a lot of support in terms of next steps and moving forward with identifying programs where agreements will be required.

Meetings with adjacent conservation authorities have also been going well. The CAs are working to identify nuances in programming to determine reasoning for any differences in program allocations.

8. Other Business

The Chair thanked staff for their work in pulling the inventory listing together, recognizing the challenge of completing the requirement within the provided timeline.

J.Farwell highlighted that a beneficial outcome of the updated regulations will be clarification on the roles of conservation authorities and municipal programs and services.

9. Next Meeting – Wednesday, February 16 at 9:00 a.m.

10. Adjourn

The meeting was adjourned at 10:45 a.m.

Grand River Conservation Authority

Report number: GM-01-22-04

Date: January 28, 2021

To: General Membership of the Grand River Conservation Authority

Subject: Draft Inventory of Programs and Services– Requirement under Ontario Regulation 687/21

Recommendation:

THAT the Grand River Conservation Authority Draft Inventory of Programs and Services be approved;

AND THAT the Draft Inventory of Program and Services be circulated to all participating municipalities;

AND THAT the Inventory of Programs and Services be presented to the General Membership for approval at the February meeting.

Summary:

As a requirement under *Ontario Regulation 687/21*, the Grand River Conservation Authority (GRCA) has completed a Transition Plan that outlines the process the conservation authority will go through to transition to the new funding/levy framework. A second requirement under this regulation is to develop an Inventory of Programs and Services based on the three categories identified in the Regulation. These categories include: (1) Mandatory, (2) Municipally requested, and (3) Other (Authority determines are advisable).

The regulation requires that the Inventory be submitted to the Ministry of the Environment, Conservation and Parks and circulated to all participating municipalities by February 28, 2022. The GRCA is also required to make the Inventory available to the public by posting it on the Authority's website (www.grandriver.ca).

At this time, the Phase 2 Regulations have not been released by the Province. This phase will include a review of the two current levies regulations (O. Reg. 670/00 "Conservation Authority Levies"; O. Reg. 139/96 "Municipal Levies") and Conservation Authority Fee Policy. It is anticipated that these updates to the regulations and policy will have an impact on the financial component of the Inventory.

Attached to this report are charts that provide information related to GRCA's Inventory of Programs and Services as required under Ontario Regulations 687/21-Section 6 "Inventory of Programs and Services". This information includes estimates and assumptions related to costs, cost allocations and revenue distribution and is subject to change as cost figures are refined and further direction is provided via the release of Phase 2 regulations.

Preliminary analysis suggests that the programs and services can be delivered without a significant change in total municipal levy support required compared with the current levy funding model. In addition, GRCA has established a transition reserve that can be used to fund new costs associated with moving to the new levy funding model.

Report:

On October 4, 2021 the MECP released the Phase 1 regulations to implement amendments to the *Conservation Authorities Act*. Report GM-21-10-75: Conservation Authorities Act Amendments- Phase 1 Regulation and Timelines provides an overview of the Phase 1 Regulations and associated deliverables and timelines.

The following regulations were included in the Phase 1 release:

- *Ontario Regulation 686/21*: Mandatory Programs and Services
- *Ontario Regulation 687/21*: Transition Plans and Agreements for Programs and Services
- *Ontario Regulation 688/21*: Rules of Conduct in Conservation Areas.

Under *Ontario Regulation 687/21*: Transition Plans and Agreements for Programs and Services, the regulation requires each conservation authority to create a Transition Plan that outlines:

- the steps to develop an inventory of programs and services (categories 1-3)
- the process to enter into agreements with participating municipalities to fund category 2: Municipal programs and services.

The GRCA approved its Transition Plan through Resolution #21-189 on December 17, 2021 and the plan was submitted to the MECP, circulated to participating municipalities and posted on the Authority's website.

The next item required under the regulation is to develop an inventory of GRCA's programs and services. The inventory will list all the programs and services that the GRCA is providing as of February 28, 2022 and those that it intends to provide after that date. The inventory will include information about the sources of funding and categorize all programs and services based on the following:

- Category 1: Mandatory programs and services as identified in *Ontario Regulation 686/21*. These programs will be funded through municipal levy.
- Category 2: Municipal programs and services that are provided at the request of the municipality. These programs can be funded through government and other agency grants and/or municipal funding under a memorandum of understanding (MOU) or agreement with the municipality.
- Category 3: Other programs and services that an Authority (Board) determines are advisable. These programs can be funded through self-generated revenue, user fees, government and other agency grants, donations, etc. Any use of municipal funding will require an agreement and would be subject to cost apportioning.

The Inventory of Programs and Services (February 28, 2022) will be an evolving document as the GRCA moves through the transition period. It is anticipated that refinements will be incorporated as negotiations with municipalities proceed and further discussions evolve within program areas.

It is important to note the synergies achieved by having a staffing model that allows staff to perform tasks and duties that provide service across different program areas and different categories. For example, conservation area staff provide support to:

- the Water Control Structures-flood Control, Small Dams and Ice Management (a Category 1 program),
- Conservation Lands Management- Operations and Capital Maintenance (a Category 1 program) and
- Conservation Areas (a Category 3 program)

The following attached charts provide a draft of the GRCA's Inventory of Programs and Services and information required under *Ontario Regulation 687/21* Section 6. For each chart, a brief description and comments are provided below.

Chart A: Programs and Services Inventory List - Categories, Descriptions, Category Rationale

Description:

Chart A provides an overview of the programs and services the GRCA currently offers. The list seeks to preserve the current financial reporting structure that is used for presenting the annual budget, financial updates to the board and internal financial management reports. This approach will help with comparability between historical financial information and information presented under the new regulations and this approach also facilitated generating cost estimates.

On Chart A each program and service has been categorized based on the criteria identified under the *Conservation Authorities Act* and supporting regulations. As required by regulation 687/21, Chart A explains why a program falls into category 1 by referencing applicable sections under *Ontario Regulation 686/21* "Mandatory Programs and Services".

Comments:

1. Phase 2 regulations have not been released and are expected to provide direction on how to allocate administration and overhead costs.
2. GRCA Corporate Services costs represent administration overhead costs and are shown separately in the inventory. These costs have not been allocated to program areas pending release of Phase 2 Regulations.
3. Some program/service may change between category 2 and 3 depending on discussions with municipalities
4. Deliverables identified under *Ontario Regulation 686/21* have been incorporated into the assigned program/service inventory. The Transition Reserve will provide any additional funding requirements needed to support the development of these deliverables. These include:
 - a. Ice Management Plan
 - b. Operations Plan - Natural Hazard Infrastructure
 - c. Asset Management Plan - Natural Hazard Infrastructure
 - d. Conservation Area Strategy
 - e. Land Inventory
 - f. Watershed-based Resource Management Strategy
5. Land acquisitions and dispositions will continue to be funded through the land sale proceeds reserve.

Chart B: Inventory of Programs and Services - Costs and Funding Sources

Description:

Chart B provides an overview of costs and identifies percentage of revenue sources.

The Regulation requires that the average annual cost of each program and service be provided based on the average of the last five years; however, if there is another value that better describes the cost of the program that is permitted provided it is justified. The GRCA has included program and services costs from the draft #1 2022 budget. With the high level of growth in the watershed, and corresponding demand for GRCA programs and Services the 2022 budget provides a more accurate estimate of cost than a five year running average.

This chart includes a breakdown of the percentage of revenue that supports the programs and services costs. Revenue categories include municipal levy, municipal MOUs/agreements under new regulations, provincial and federal and other municipal funding, self-generated revenue-specific to the program revenue (i.e. user fees), self-generated revenue that has been allocated from other program area revenue (i.e. property rentals and hydro production) and reserves.

Comments:

1. Revenue percentage distributions will change as costs fluctuate.
2. Estimated percentages for Municipal MOUs/agreements may change as negotiations with municipalities are completed.
3. Costs identified will be refined over time and subject to change by 2024.
4. Surplus revenues from certain Category 3 programs and services will help to fund other Category 3 programs and services that would otherwise have a deficit.
5. Reserves are shown as a distinct revenue source. This highlights where reserves are used to fund programs as part of an overall deliberate strategy of drawing on reserves that were generated by setting aside funding from prior years and now accessing reserves as needed.
6. The GRCF is a separate legal entity that provides funds to the GRCA through donations it receives. GRCA provides some services to assist with administrative operation of the Foundation and these costs are currently included in mandatory categories as applicable.
7. Hydro production costs include an amount that is allocated to reserves from annual program revenue which is consistent with GRCA's budget presentation.
8. The Source Water Protection Program is funded entirely by the province.

Chart C: Inventory of Programs and Services - Category 2: Details of Municipal Agreements

Description

Chart C is required to identify which municipality a program and service is provided for and when the agreement was entered into. This chart will be updated as category 2 agreements are negotiated with the participating municipalities.

Although the GRCA has negotiated MOUs with municipalities for a number of programs and services, these current agreements do not contain all the requirements identified in regulation and will be renegotiated.

Chart D: Inventory of Programs and Services - Category 3: Information Requirements.

Description

Chart D identifies the Category 3 programs and services and identifies whether the program/services have been financed through municipal levy, and what funding sources will be utilized to the support the program/service as of January 1, 2024.

Comments:

1. Environmental Education is expected to transition to a self-funding business model that is not reliant on municipal levy and could include funding from fee revenue, donations and other external funding sources. A program evaluation is currently underway and the Transition Reserve may be used to help fund this program after 2023 until the program has fully implemented a self-sustaining business model.

As identified in the GRCA Transition Plan and required under the regulations, regular progress reports on the Inventory of Programs and Services must be submitted to the MECP and posted to the GRCA's website. These reports will identify any challenges and changes that have resulted during negotiations with participating municipalities. It is anticipated as the GRCA moves through the transition period that programs and services costs will be refined and more accurate percentages of revenue allocation will be identified.

On February 25, 2022 an updated version of the Inventory of Programs and Services will be presented to the Board for approval. If approved, the Inventory will be submitted to MECP, circulated to participating municipalities and posted to the GRCA website to meet the regulatory timeline of February 28, 2022.

Financial Implications:

Based on the draft Inventory and corresponding financial requirements for category 1 and 2 programs and services, there does not appear to be a significant change in municipal support (levy plus municipal MOUs) required compared to the current levy funding model. Additionally, the GRCA has a Transition Reserve to assist with transition costs (such as administration, legal and consultant) and to provide supplemental funding to programs where minor gaps in funding exist or new regulatory deliverables are required.

Other Department Considerations:

Not applicable.

Submitted by:

Samantha Lawson
Chief Administrative Officer

CHART A

Programs & Services Inventory Listing - Category, Description, Rationale for Category

GRAND RIVER CONSERVATION AUTHORITY

Draft January 28th, 2022 to General Membership

	Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Category 1 Programs & Services- Applicable Section under Regulation 686/21 'Mandatory Programs and Services'
1	Flood Forecasting & Warning (FFW)	1	<p><u>21.1 (1) para 1. (i)</u> P&S related to risk of natural hazards</p> <p><u>21.1 (1) para 1. (iv)</u> Services provided related to duties and functions under the Act.</p> <p><u>21.1 (1) para 2.</u> Other P&S not included in para 1.</p>	<ul style="list-style-type: none"> Maintain computerized FFW system. Operate 24 hour on call/duty officer system to respond to flooding events. Maintain Communications and Emergency Response systems. Collect and maintain data from streamflow gauges, rainfall gauges, and snow courses. 	<p>Section 2 Flood forecasting and warning</p> <p>Section 12 (1)2, 12(1)3, 12(1)4</p>
2	Water Control Structures-Flood Control, Small Dams & Ice Management	1	<p><u>21.1 (1) para 1. (i)</u> P&S related to risk of natural hazards - <i>Flood Control Structures & Ice Management</i></p> <p><u>21.1 (1) para 1. (ii)</u> P&S related to management of lands owned by Authority- <i>Small Dams</i></p>	<p><u>Flood Control Structures</u> Operate and maintain 7 major flood control structures, 5 major dike systems.</p> <ul style="list-style-type: none"> Perform dam safety reviews, inspections, monitoring, and capital maintenance and upgrade projects. Develop and implement public safety plans for structures. <p><u>Small Dams</u></p> <ul style="list-style-type: none"> Operate and maintain 22 small dams and surrounding lands. <p><u>Ice Management</u></p> <ul style="list-style-type: none"> Perform Ice Management Activities and respond to flooding from ice jams. <i>NEW-Develop and Implement Operational Plan Natural Hazard Infrastructure by Dec 31, 2024</i> 	<p>Section 1 (1) (3) Risk of flooding hazard</p> <p>Section 5 (1) (1) Water control infrastructure</p> <p>Section 5 (1) (2) Erosion control infrastructure</p> <p>Section 9 (2) (i), (ii), (iv) Conservation lands-required component</p> <p>Section 4 - Ice management</p>

	Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Category 1 Programs & Services- Applicable Section under Regulation 686/21 'Mandatory Programs and Services'
				<ul style="list-style-type: none"> <i>NEW-Develop Asset Management Plan Natural Hazard Infrastructure by Dec 31, 2024</i> <i>NEW - Develop Ice Management Plan by December 31, 2024</i> 	
3	Floodplain Mapping	1	<u>21.1 (1) para 1. (i)</u> P&S related to risk of natural hazards	<ul style="list-style-type: none"> Update and maintain flood line mapping. Develop natural hazards mapping. 	Section 1 (3) (1) (i) Collect information and map areas of natural hazards.
4	Resource Planning- Plan Input and Review, Permitting and Solicitor Enquiries	1	<u>21.1 (1) para 1. (i)</u> P&S related to risk of natural hazards	<ul style="list-style-type: none"> Process permits related to development, alteration or other activities in regulated areas. Review official plans, secondary and community plans, zoning bylaws, development applications and other proposals (i.e. environmental assessments) Enforce applicable regulations. Develop and maintain policies and guidelines to manage natural hazards. Provide advisory services to the province and municipalities. 	<p>Section 6 - comment on applications, proposals</p> <p>Section 7 - plan review, comments</p> <p>Section 8 - administering and enforcing the act</p>
5	Resource Planning- Natural Heritage Management	2	<u>21.1.1</u> P&S provided on behalf of a municipality under an MOU	<ul style="list-style-type: none"> Provide services related to natural heritage for planning and other applications or projects. Provide services/assistance to identify, enhance, restore, rehabilitate, and protect natural heritage ecosystems in the watershed. Develop and maintain policies and guidelines to assist in management of natural heritage resources. 	<p>Not applicable.</p> <p>See CHART C for information required to be provided under Regulation Section 6 Subsection (5).</p>
6	Watershed Resources- Planning	1	<u>21.1 (1) para 1. (i)</u> P&S related to risk of natural hazards <u>21.1 (1) para 1. (iii)</u> P&S related to duties as a source protection authority	<ul style="list-style-type: none"> Operate monitoring stations. Maintain provincial ground monitoring network (PGWN). Maintain water budget to support sustainable water use in the watershed. Operate a drought response program. Analyze and report on water quality conditions in the Grand River. 	<p>Section 3 - Drought or low water response.</p> <p>Section 5 (2) (1) - Develop Operational Plan</p> <p>Section 5 (2) (2) - Develop Asset Management Plan</p> <p>Section 5 (4)</p>

	Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Category 1 Programs & Services- Applicable Section under Regulation 686/21 'Mandatory Programs and Services'
			under the Clean Water Act. <u>21.1 (1) para 1. (2)</u> Other P&S prescribed by regulations.	<ul style="list-style-type: none"> • Provide advice on water use permits to province. • Report on emerging climate change impacts. • <i>NEW - Prepare Watershed-based Resource Management Strategy by Dec 31, 2024</i> 	Update operational or asset management plans Section 12 (1) 1. - Groundwater Monitoring Section 12 (1) 2. - Stream Monitoring Section 12 (1) 3. - Watershed-based Management Strategy Section 13 - Source Protection Authority under Clean Water Act
7	Watershed Resources-Subwatershed Planning	2	<u>21.1.1</u> P&S provided on behalf of a municipality under an MOU	<ul style="list-style-type: none"> • Partner with municipalities to provide natural heritage input and review for subwatershed and other plans for streams and tributaries, which provide background on surface water, ground water, natural heritage ecosystems and recommend sustainable solutions to urban growth. 	Not applicable. See CHART C for information required to be provided under Regulation Section 6 Subsection (5).
8	Source Protection Planning	1	<u>21.1 (1) para 1. (iii)</u> P&S related to duties as a source protection authority under the Clean Water Act.	<ul style="list-style-type: none"> • Deliver the provincial source protection planning program under the Clean Water Act 2006 for the Lake Erie Source Protection Region made up of four watersheds. 	Section 13 - Source Protection Authority under Clean Water Act
9	Conservation Services-Rural Water Quality Program (RWQP)	2	<u>21.1.1</u> P&S provided on behalf of a municipality under an MOU	<ul style="list-style-type: none"> • Coordinate the grant program delivered to private landowners to encourage adoption of agricultural and rural landowner best management practices and projects to improve and protect water quality, soil health and related initiatives (i.e. restore natural areas and private land tree planting). • Deliver special program initiatives that study and/or provide awareness and education related to improving and protecting water quality and related initiatives. 	Not applicable. See CHART C for information required to be provided under Regulation Section 6 Subsection (5).

	Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Category 1 Programs & Services- Applicable Section under Regulation 686/21 'Mandatory Programs and Services'
10	Conservation Services - Community Events (<i>Outreach</i>)	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> Co-ordinate community events e.g. children's water festivals Agricultural and landowner workshops to promote landowner environmental stewardship action. Co-ordinate GRCA volunteer activities to enable public participation in GRCA environmental activities. 	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).
11	Conservation Lands Management- Operating and Capital Maintenance costs related to authority owned lands including Trail Management, Land acquisitions and disposal, property taxes	1	<u>21.1 (1) para 1. (ii)</u> P&S related to conservation and management of lands owned by Authority.	<ul style="list-style-type: none"> Maintain passive conservation areas. Maintain property integrity (i.e. encroachments) and security (unauthorized use) Develop and maintain trail network. Manage wetlands and floodplain lands. Capital and operational support services provided to maintain the built infrastructure on GRCA lands. Create and maintain Asset Management Plan for built infrastructure on GRCA lands. Dispose of lands declared surplus and plan for disposition of other surplus lands. Acquire environmentally significant conservation lands (<i>greenspace management</i>). <i>NEW- Prepare a conservation area strategy</i> <i>NEW - Prepare a land inventory by Dec 31, 2024</i> 	<p>Section 9 (1) (1) prepare a conservation area strategy by Dec 31, 2024.</p> <p>Section 9 (1) (2) Conservation lands-required component-objectives</p> <p>Section 9 (1) (3) prepare land inventory by Dec 31, 2024</p>
12	Conservation Lands Management- Hazard Tree Management, Forestry Management- Operations	1	<u>21.1 (1) para 1. (i)</u> P&S related to risk of natural hazards <u>21.1 (1) para 1. (ii)</u> P&S related to conservation and management of lands owned by Authority.	<ul style="list-style-type: none"> Operate hazard tree management program on GRCA lands Deliver forest management, tree planting, woodlot thinning, selective harvesting, and naturalization projects on GRCA lands Maintain the Managed Forest Tax Incentive Program. Invasive Species Management. 	<p>Section 1 (1) (4) Risk of hazardous lands</p> <p>Section 9 (1) (2) Conservation lands-required components</p>

	Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Category 1 Programs & Services- Applicable Section under Regulation 686/21 'Mandatory Programs and Services'
13	Conservation Lands- Natural Heritage Management	1	<u>21.1 (1) para 1. (ii)</u> P&S related to conservation and management of lands owned by Authority.	<ul style="list-style-type: none"> • Provide planning services/assistance to enhance, restore, rehabilitate, and protect aquatic and terrestrial ecosystems on GRCA owned lands. 	Section 9 (2) (iv) Conservation lands-required components
14	Private Land Tree Planting & Nursery Operations	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Provide services to private and public landowners and community groups to engage in tree planting activities. • Operate the Burford Nursery. 	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).
15	Environmental Education	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<p>Deliver outdoor education sessions:</p> <ul style="list-style-type: none"> • school classes • day-camp program • community groups • private groups <p>Operate six outdoor education centres-Apps, Laurel Creek, Shades Mills, Guelph, Taquanyah, Rockwood.</p>	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).
16	Property Rentals	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Rent 733 cottage lots at Belwood Lake and Conestogo Lake. • Lease agricultural lands. • Lease 8 residential units. • Over 50 miscellaneous commercial agreements for use of GRCA lands. 	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).
17	Hydro Production	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Generate hydro from turbines at four dams (Shand, Conestogo, Guelph and Drimmie). 	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).

	Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Category 1 Programs & Services- Applicable Section under Regulation 686/21 'Mandatory Programs and Services'
18	Conservation Areas	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Operate 11 active Conservation Areas (8 camping and 3 day-use only). • Operate Luther Conservation Area • Offer hunting on some GRCA Lands 	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).
19	Communications-Mandatory	1	<u>21.1 (1) para 1. (iv)</u> Services provided related to duties and functions under the Act.	<ul style="list-style-type: none"> • Media Relations • Public Relations and awareness building • Website management • Social media management • Community engagement and public consultation • Corporate brand management 	Regulations pending.
20	Communications-Non-mandatory programs	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Media Relations • Public Relations and awareness building • Website management • Social media management 	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).
21	Corporate Services-Mandatory	1	<u>21.1 (1) para 1. (iv)</u> Services provided related to duties and functions under the Act.	<p>Provide the following administrative services that support mandatory program delivery:</p> <ul style="list-style-type: none"> • Office of the CAO • Finance • Human Resources/ Health & Safety • Payroll • Office Services • Building Services <p>Administrative expenses incurred:</p> <ul style="list-style-type: none"> • General membership • Head office building • Office supplies, postage, bank fees • Head office communication system • Insurance • Audit Fees 	Regulations pending.

	Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Category 1 Programs & Services- Applicable Section under Regulation 686/21 'Mandatory Programs and Services'
				<ul style="list-style-type: none"> • Consulting, legal, labour relations • H&S Equipment, inspections, training • Conservation Ontario Fees • Corporate Professional Development • Unallocated Motor Pool and Information • Systems and Technology expenses • Uninsured losses, damage to GRCA assets 	
22	Corporate Services- Non-Mandatory programs	3	<u>21.1.2</u> P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	Allocate administrative services and expenses that are incremental to delivering non-mandatory programs: <ul style="list-style-type: none"> • Finance • Office supplies, postage, bank fees • Head office communication system • Insurance • Audit Fees • Consulting, legal, labour relations • H&S Equipment, inspections, training • Conservation Ontario Fees • Corporate Professional Development • General 	Not applicable. See CHART D for information required to be provided under Regulation Section 6 Subsection (6).

CHART B

P&S Inventory Listing - Costs & Funding Sources

GRAND RIVER CONSERVATION AUTHORITY

Draft January 10th, 2021 to P&S Inventory Staff Meeting

Ref #	P&S Inventory Name	Category	TOTAL EXPENSES (Source: draft 2022 Budget)	Municipal Levy	Municipal MOUs/ Agreements	Provincial / Federal / Other Municipal	Self-Generated- Program Revenue	Self-Generated- Other Revenue (note 1)	Reserves	Comment
1	Flood Forecasting & Warning (FFW)	1	\$1,033,000	82%		16%			2%	Provincial Section 39 Funding
2	Water Control Structures- Flood Control, Small Dams, Ice Management	1	\$3,457,700	70%		29%			1%	Provincial Section 39 Funding and WECl Funding
3	Floodplain Mapping	1	\$100,000	100%		TBD			TBD	Federal Funding available for special projects combined with use of reserves.
4	Resource Planning- Plan Input and Review, Permitting and Solicitor Enquiries	1	\$2,051,200	50%			50%			Permit, Plan Review & Solicitor Enquiry Fee Revenue
5	Resource Planning- Natural Heritage Management	2	\$240,000		85%	15%				Federal-Species at Risk
6	Watershed Resources- Planning	1	\$1,651,400	93%		TBD	2%		5%	Provincial-Waste Water Optimization Program (WWOP)
7	Watershed Resources- Subwatershed Planning	2	\$233,000		80%	20%				Other Municipal-Current Municipal agreements
8	Source Protection Planning	1	\$640,000			100%				Provincial Funding
9	Conservation Services- Rural Water Quality Program (RWQP)	2	\$1,386,200		40%	60%				Other Municipal- Current Municipal agreements
10	Conservation Services - Community Events (Outreach)	2	NIL		50%		50%			Funding distribution contingent on specific event. Self-Generated: may include donations.

Ref #	P&S Inventory Name	Category	TOTAL EXPENSES (Source: draft 2022 Budget)	Municipal Levy	Municipal MOUs/ Agreements	Provincial / Federal / Other Municipal	Self-Generated-Program Revenue	Self-Generated-Other Revenue (note 1)	Reserves	Comment
11	Conservation Lands Management- Operating and Capital Maintenance costs related to authority owned lands including Trail Management, Land acquisitions and disposals, property taxes	1	\$2,043,800	95%					5%	Reserves for Demolition expense. Land acquisition and disposal costs are funded with reserves.
12	Conservation Lands Management- Hazard Tree Management, Forestry Management- Operations	1	\$509,900	90%			10%			Timber Sales Revenue, Donations
13	Conservation Lands- Natural Heritage Management	1	\$238,000	100%			TBD			TBD-Ecological Restoration special projects with external funding
14	Private Land Tree Planting & Nursery Operations	3	\$862,400				65%	35%		Fee revenue and allocation of Category 3 Fee Revenue
15	Environmental Education	3	\$653,600				80%	20%		Fee Revenue
16	Property Rentals	3	\$1,022,500				100%			Fee Revenue
17	Hydro Production	3	\$210,000				100%			Fee Revenue
18	Conservation Areas	3	\$9,428,000				91%	3%	6%	Fee Revenue
19	Communications-Mandatory	1	\$477,500	100%						
20	Communications- Non-mandatory programs	3	\$100,000					100%		Allocation of Category 3 Fee Revenue
21	Corporate Services-Mandatory	1	\$3,498,288	87%		2%	1%		10%	Provincial SPP funding, Interest Income
22	Corporate Services- Non-Mandatory programs	3	\$1,086,000					100%		Allocation of Category 3 Fee Revenue

Note 1-Self generated-Other Revenue represents surplus revenue from category 3 programs (Property Rentals, Hydro Production) and interest income.

CHART C

Programs & Services Inventory Listing - Category 2 - Details of Municipal Agreements

GRAND RIVER CONSERVATION AUTHORITY

Draft January 28th, 2022 to General Membership

Extract:

Ontario Regulations 687/21 - Transition Plans and Agreements for Programs and Services Under Section 21.1.2 of the Act

Section 6 Subsection 5 requirements

(5) For each Category 2 program or service listed in the inventory under clause (2) (a), the authority shall include the following information:

1. The name of the municipality on behalf of which the program or service is provided.
2. The date on which the authority and the municipality entered into a memorandum of understanding or another agreement with respect to the provision of the program or service.

Programs & Services Inventory	Category 1-Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Memorandum of Understanding (MOU)/Agreement Status
Resource Planning- Natural Heritage Management	2	<u>21.1.1</u> P&S provided on behalf of a municipality under an MOU	<ul style="list-style-type: none"> • Provide services related to natural heritage for planning and other applications or projects • Provide services/assistance to identify, enhance, restore, rehabilitate, and protect natural heritage ecosystems in the watershed. • Develop and maintain policies and guidelines to assist in management of natural heritage resources. 	As at Feb 28, 2022 MOUs have yet to be negotiated with municipalities. Future updates to the P&S Inventory listing will reflect status of MOU's.
Watershed Resources- Subwatershed Planning	2	<u>21.1.1</u> P&S provided on behalf of a municipality under an MOU	<ul style="list-style-type: none"> • Partner with municipalities to provide natural heritage input and review for subwatershed and other plans for streams and tributaries, which provide background on surface water, ground water, terrestrial and aquatic ecosystems and recommend sustainable solutions to urban growth. 	Modified and/or additional MOUs will need to be negotiated with municipalities. Future updates to the P&S Inventory listing will reflect the status of MOUs.
Conservation Services- Rural Water Quality Program (RWQP)	2	<u>21.1.1</u> P&S provided on behalf of a municipality under an MOU	<ul style="list-style-type: none"> • Coordinate the grant program delivered to private landowners to encourage adoption of agricultural management practices and projects to improve and protect water quality soil health and related initiatives (i.e. restore natural areas and private land tree planting). • Deliver special program initiatives that study and/or provide awareness and education related to improving and protecting water quality and related initiatives. 	Modified and/or additional MOUs will need to be negotiated with municipalities. Future updates to the P&S Inventory listing will reflect the status of MOUs.

CHART D

Programs & Services Inventory Listing - Category 3 - Information Requirements

GRAND RIVER CONSERVATION AUTHORITY

Draft January 28th, 2021 to General Membership

Extract:

Ontario Regulations 687/21 - Transition Plans and Agreements for Programs and Services Under Section 21.1.2 of the Act

Section 6 Subsection 6 requirements

For each Category 3 program or service listed in the inventory under clause (2) (a), the authority shall include the following information:

1. Whether or not the program or service was financed, in whole or in part, through municipal levies collected from participating municipalities.
2. Whether or not the authority intends to seek to enter into a cost apportioning agreement with one or more participating municipalities to ensure all or part of the financing of the program or service after the transition date.

Programs & Services Inventory	Category 1- Mandatory 2- Municipal P&S 3- Other	Applicable Section of the Act	Description	Section 6 (6) Info Requirements
Conservation Services - Community Events (Outreach)	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Co-ordinate community events e.g. children's water festivals • Agricultural and landowner workshops to promote landowner environmental stewardship action. • Co-ordinate GRCA volunteer activities to enable public participation in GRCA environmental activities. 	<p>Program and Service has been financed in part through municipal levies.</p> <p>GRCA will seek to obtain other funding sources to deliver these types of programs and services.</p>
Private Land Tree Planting & Nursery Operations	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Provide services to private and public landowners and community groups to engage in tree planting activities. • Operate the Burford Nursery. 	<p>Program and Service has been financed in part through municipal levies.</p> <p>GRCA would seek to obtain other funding sources to deliver this program and service.</p> <p><i>Note: Indirect overhead costs related to this program are included under Communications (non-mandatory) and Corporate Services (non-mandatory) listed below.</i></p>

Programs & Services Inventory	Category 1- Mandatory 2-Municipal P&S 3-Other	Applicable Section of the Act	Description	Section 6 (6) Info Requirements
Environmental Education	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	Deliver outdoor education sessions: <ul style="list-style-type: none"> • school classes • day-camp program • community groups • private groups Operate six outdoor education centres- Apps, Laurel Creek, Shades Mills, Guelph, Taquanyah, and Rockwood.	Program and Service has been financed in part through municipal levies. GRCA will seek to obtain other funding sources to deliver this program and service. <i>Note: Indirect overhead costs related to this program included under Communications (non-mandatory) and Corporate Services (non-mandatory) listed below.</i>
Property Rentals	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Rent 733 cottage lots at Belwood Lake and Conestogo Lake. • Lease agricultural lands • Lease 8 residential units • Over 50 miscellaneous commercial agreements for use of GRCA lands. 	Program and Service was not financed through municipal levies. <i>Note: Indirect overhead costs related to this program included under Communications (non-mandatory) and Corporate Services (non-mandatory) listed below.</i>
Hydro Production	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Hydro generating revenue earned at four dam locations (Shand, Conestogo, Guelph and Drimmie). 	Program and Service was not financed through municipal levies. <i>Note: Indirect overhead costs related to this program included under Communications (non-mandatory) and Corporate Services (non-mandatory) listed below.</i>
Conservation Areas	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Operate 11 active Conservation Areas (8 camping and 3 day-use only). • Operate Luther Conservation Area • Offer hunting on some GRCA Lands 	Program and Service was not financed through municipal levies. <i>Note: Indirect overhead costs related to this program included under Communications (non-mandatory) and Corporate Services (non-mandatory) listed below.</i>

Programs & Services Inventory	Category 1- Mandatory 2- Municipal P&S 3- Other	Applicable Section of the Act	Description	Section 6 (6) Info Requirements
Communications- Non-mandatory programs	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<ul style="list-style-type: none"> • Media Relations • Public Relations and awareness building • Website management • Social media management 	<p>Program and Service has been financed in whole through municipal levies.</p> <p>GRCA will allocate revenue from other programs and services.</p>
Corporate Services- Non-Mandatory programs	3	21.1.2 P&S that the authority determines to provide within its area of jurisdiction to further the purpose of this Act.	<p>Allocate administrative services and expenses that are incremental to delivering non-mandatory programs:</p> <ul style="list-style-type: none"> • Finance • Office supplies, postage, bank fees • Head office communication system • Insurance • Audit Fees • Consulting, legal, labour relations • H&S Equipment, inspections, training • Conservation Ontario Fees • Corporate Professional Development • General 	<p>Program and Service has been financed in whole through municipal levies.</p> <p>GRCA will allocate revenue from other programs and services.</p>

Grand River Conservation Authority

Report number: GM-01-22-05

Date: January 28, 2021

To: Members of the Grand River Conservation Authority

Subject: 2019-2021 Strategic Plan Update

Recommendation:

THAT Report Number GM-01-22-05 – 2019-2021 Strategic Plan Update be received as information.

Summary:

The Grand River Conservation Authority (GRCA)'s current strategic plan was initially developed in 2012 and an update to the plan was completed in 2018. Since 2012, there have been numerous changes to the *Conservation Authorities Act*. During the 2019- 2021 strategic plan period, Bill 108: More Homes, More Choice Act and Bill 229: Protect, Support and Recover from COVID-19 Act were passed. Since the passing of the Bills, many of the changes to the Act have come into force and regulations have been released. These Bills resulted in further defining Conservation Authority programs and services, changes to governance, and modifications to funding frameworks. Coupled with the legislative reviews/changes, the pandemic has also caused disruptions in program delivery, particularly in 2020.

The GRCA has continued to work towards completing the strategic goals and actions throughout the past three years. It is requested that the existing plan be extended for an additional 2 years and key actions updated. As well, consideration for additional strategic goals to reflect key contextual changes for the GRCA, such as compliance and implementation of the new regulations, as well as a renewed focus on enhancing indigenous awareness, understanding and relationships.

Report:

This report provides background information on the GRCA's strategic plan. On December 15, 2018 the Grand River Conservation Authority approved an updated strategic plan. The plan set out four strategic priorities:

1. Protecting life and minimizing property damage from flooding and erosion
2. Improving the health of the Grand River watershed
3. Connecting people to the environment through outdoor experiences
4. Managing land holdings in a responsible and sustainable way.

Under each strategic priority a number of key actions were identified. This report provides background for the priorities and an update with respect to the status of the key actions to address.

Strategic Priority 1 – Protecting Life and Minimizing Property Damage from Flooding and Erosion:

The GRCA operates a flow-monitoring network, as well as operates dams and dikes to manage high flows and a flood forecasting and warning system. New development in the floodplain, and other hazard areas like steep slopes, are regulated to minimize future risks. We plant trees and restore natural areas to minimize the impacts of large rainstorms.

With climate change, there is increasing risk of extreme weather. As well, longer and hotter summers put strain on reservoirs operations, which ensures there is an adequate supply of water to the river and municipalities downstream. The key actions outlined below relate to activities that improve the safety and security of the GRCA's water control infrastructure and improve the tools used for making decisions related to hazard management.

The following table provides a breakdown of each key action and the progress we have achieved to date.

Key Action	Progress to date
Update mapping to further identify flood risk and other natural hazard areas	<ul style="list-style-type: none">• Development of flood line mapping updates along the Lake Erie Shoreline (includes erosion hazard mapping, the Upper Grand, lower Conestogo and Speed Rivers.• Incorporated Topographic Lidar information into natural hazard mapping across the watershed• Completion of a flood damage assessment and dike feasibility study in the community of New Hamburg (Township of Wilmot)• Flood Damage assessments are underway for the communities of Drayton and Grand Valley (Township of Mapleton)• An ice mitigation study has been completed to investigate potential ice mitigation options along the Grand River through the dike reach through the City of Brantford• Work has been initiated with the US Army Corps of Engineers to implement enhancements to their HEC-HMS software to facilitate updating flood hydrology in the Grand River watershed• Participate on provincial committees to identify priorities and technical information for floodplain mapping 2020-2022• Led or participated in Subwatershed Studies and Master Environmental Servicing Plans that identified flood risks and other natural hazards in Region of Waterloo, Brantford and Guelph
Manage and update infrastructure to deal with expected changes in rainfall patterns.	<ul style="list-style-type: none">• Datalogger monitoring equipment across the network is being replaced. To date, 40% of the monitoring network is complete• Communication systems at remote monitoring sites are being converted to high-speed cellular communications• Updating of the supervisory control and data acquisition (SCADA) monitoring systems in GRCA dams has begun. Equipment upgrades are underway at two of nine sites• All weather weighing rain gauges have been installed at Shand Dam, Guelph Dam and Conestogo Dam to permit year around precipitation monitoring• New technologies related to real-time snow water monitoring is being installed at Luther Dam. Real-time snow sensing is an adaptation intended to prepare for more dynamically changing snow

Key Action	Progress to date
	<p>packs particularly in the northern portion of the Grand River watershed which is affected by lake effect snow from Lake Huron</p> <ul style="list-style-type: none"> • Review and update of land owner agreements for access to snow course sites is underway • Updating of the GRCA monitoring alerting and alarm system has been completed over the past two years. Decommissioning of the original voice alerting system is underway • Work has been initiated to investigate and implement solutions to management seepage and stability issues associated with the Bridgeport dyke and to increase the conveyance capacity of this dike to pass the regulatory flood flow • Ice mitigations options have been investigated with respect to the Brantford dikes. Work continues with the municipality to implement recommended mitigation options • Continue to work with the Township of Mapleton to investigate options and support municipal interest of extending the existing dike in the community of Drayton
Upgrade the monitoring, flood forecasting and warning systems	<ul style="list-style-type: none"> • Two weather forecasting services have been contracted to provide greater forecasting abilities. The weather forecasting information has been directly integrated into the GRCA flood forecasting model and are now used on an operational basis • Flood zone mapping has been prepared and implemented along the Haldimand County Lake Erie shoreline and southern Grand River. The new flood zone mapping is referenced in GRCA flood warning messages and the County of Haldimand uses it for emergency preparedness and response • The topographic Lidar in combination with updating existing hydraulic models is being used to create flood inundation mapping along entire reaches of the large rivers and major creeks including the Grand, Conestogo and Speed Rivers and Canagagigue Creek • Reach-based inundation mapping has been completed along the Grand River through Haldimand County and Woolwich Township • Community-based inundation mapping has been completed through the communities of Grand Valley and Waldemar • An additional flood coordinators meeting has been added in December, in addition to the normal February Flood Coordinators meeting. The intent of the pre winter meeting in December is to better prepare for mid-winter melt flood events that have been experienced in recent years • Participate on provincial committee to assist with the updating of the Provincial Flood Forecasting and Warning Guidelines
Update GRCA permit policies.	<ul style="list-style-type: none"> • Internal review of policies initiated 2019 • GRCA Permit Hearing Guidelines updated 2021 • Participation in Conservation Ontario S.28 and S.29 compliance committees • New or updated mapping and policies for natural hazards incorporated into municipal planning documents align with GRCA permit policies and mapping

Strategic Priority 2 – Improving the health of the Grand River watershed:

The focus of GRCA programs and services is to improve watershed health. We encourage and support landowners and residents to take actions that protect and enhance it. We work with farmers to keep soil and nutrients on their fields. We support landowners to create and enhance natural areas, forests and stream-side buffers.

Major reservoirs on the Speed, Conestogo and Grand rivers supply the majority of flow in summer, helping reduce harmful impacts on aquatic ecosystems. We work with partners and First Nations through the Grand River Notification Agreement. We coordinate the Water Management Plan that highlights actions of municipal partners, landowners, government partners and the GRCA to improve watershed health. We carry out subwatershed plans and identify opportunities to enhance natural features.

The challenges in this area are related to the role of the GRCA. With the watershed as a management unit, there is a logical role in water quality for the GRCA, yet other agencies and jurisdictions have been mandated that role as well. There is an expectation for results in improving water quality, but improvements take time. With the reduction in provincial funding support, the sub-watershed planning process is ad hoc, and often driven by development rather than on a comprehensive basis. The strategic priorities relate to developing long-range plans that deal with impacts of climate change, population growth and increasing pressure on the natural environment.

The following table provides a breakdown of each key action and the progress we have achieved to date.

Key Actions	Progress to date
Support municipalities in optimizing wastewater treatment plants	<ul style="list-style-type: none">• Voluntary effluent targets have been established for phosphorus and ammonia• 40% reduction in phosphorus and >90% reduction in ammonia discharged from waste water treatment plants (WWTP) since 2012. Further reductions are possible if all WWTPs consistently meet the voluntary targets• Providing technical support to Townships of Southgate and Centre Wellington on waste water treatment challenges
Engage the provincial and federal governments to develop programs to reduce nutrient loads in rivers and streams, and ultimately Lake Erie	<ul style="list-style-type: none">• Federal Great Lakes Protection Initiative Upper Nith P reduction program 2020-2022• Federal Habitat Stewardship Program for Aquatic SAR 2020-2022.• Provincial Profit Mapping Demonstration Project 2020-2022• Staff provided support to provincial/federal working groups focused on improving soil health, water quality.• Actively engage MECP to promote Waste Water Optimization• Participate in the Environment and Climate Change Canada Lake Erie Eastern Basin Task Team setting phosphorus targets for the Eastern Basin of Lake Erie

Key Actions	Progress to date
Continue to work with municipalities on drinking water source protection.	<ul style="list-style-type: none"> • Source protection plans are reviewed and updated as required in collaboration with municipalities • Continue to identify voluntary water quality priority projects to municipalities and landowners in wellhead protection zones and issue contributing areas • Manage waste water systems appropriately on GRCA lands • Work with provincial Permit to Take Water staff to share watershed knowledge and promote effective water management
Continue to work with landowners to reforest and restore natural spaces	<ul style="list-style-type: none"> • Trees planted 2019-2021: 326,500 total trees (38,000 on GRCA land and 288,500 on private land). Of these trees planted approximately 42,500 were provided by the Burford Nursery • Participated and coordinated in person and virtual community events for reforestation and restoration such as agriculture association and producer events, on farm tours and virtual webinars, tree planting on municipal/community and GRCA lands tree planting (e.g. Rotary Forest) • Restoration of wetlands and adjacent areas is achieved by working with landowners through some permit compliance actions. Buffers next to natural areas are identified for future restoration opportunities in the review of planning applications Mill Creek Stewardship Ranger Program - ecological restoration with an emphasis on aquatic environments and riparian areas (activities take place on private, local industry, and municipal lands) was delivered in 2019

Strategic Priority 3 – To Connect People with the Environment through Outdoor Experiences

The GRCA operates 11 active Conservation Areas on a user-fee basis. Many of these areas have important natural heritage features. We also operate five Nature Centres, providing curriculum-based environmental education programs in partnership with school boards, as well as nature-based day camps, and evening and weekend programs for the public. The Grand River Conservation Foundation is instrumental in supporting the environmental education program.

With a growing population, public attendance in the active Conservation Areas is expected to continue to grow. Capital upgrades will be required in both the Conservation Areas and Nature Centres in order to meet user needs. Some assets are nearing the end of their useful life.

The following table provides a breakdown of each key action and the progress we have achieved to date.

Key Actions	Progress to date
Implement infrastructure upgrades for the	<ul style="list-style-type: none"> • Guelph Lake Conservation Area workshop was completed in 2020 • Elora Pines seasonal camp ground was completed in 2021 • Elora Quarry Conservation Area front perimeter fencing was completed in 2020 • Rockwood Conservation Area trail improvements were completed in 2021

Key Actions	Progress to date
Conservation Areas.	<ul style="list-style-type: none"> • Pinehurst Conservation Area shop insulation was completed in 2020 • Implemented handheld POS terminals, and on-line information system technology for various activities including parking passes, advance ticket sales, equipment rentals, hunting passes, and seasonal camping deposits
Prepare operational plans that balance revenue generation with protecting natural features in the Conservation Areas.	<ul style="list-style-type: none"> • Capacity plans were implemented during peak conservation area season, initially due to COVID-19 but will continue post-pandemic with a reduced impact on natural features being one of the benefits/objectives • Elora Quarry Conservation Area had a change to operations with ticket sales and limited capacity to help reduced site impact • Conservation Area Renaming project – renewed focus on conservation rather than parks • Implementing improvements to operational practices that reduce environmental impacts such as incorporating recycling into the refuse removal RFP for conservation areas, investing in improved lighting and insulation, investigating options for hybrid vehicles and equipment • Continual evaluation of ancillary activities, e.g. food concession, to ensure the best use of resources (financial, staffing)
Prepare capital forecasts for the Nature Centres and develop a long-term funding plan	<ul style="list-style-type: none"> • The changes to the education sector brought on by the pandemic, coupled with the potential loss of levy funding have had a significant and ongoing impact on the GRCA's outdoor environmental education program • A program evaluation is currently underway to ensure the program's sustainability in the long-term.
Construct a new Nature Centre at Guelph Lake.	<ul style="list-style-type: none"> • In August 2020, the GRCA deferred the tender to proceed with the building of the nature centre in order to allow additional time for fundraising and to understand the long-term impacts to the outdoor environmental education program • In August 2021, the GRCA directed staff to proceed with a preliminary redesign of the new building and to provide an update by the end of 2021 • In December 2021, the GRCA approved the preliminary redesign on the new building • A number of technical staff participated in and/or provided input on the design concepts for several outdoor learning areas (ie. ponds, wetlands, trails, meadows) • A number of events co-ordinated through the GRCA Volunteer program to support trail and land improvement and naturalization projects • Construction and development related to site/building preparation has already begun including an access road, parking lot, trails, pollinator pond and an outdoor classroom
Work with member	<ul style="list-style-type: none"> • Staff continue to provide input on municipal trail master plans, community plans and also provide support through land use planning applications

Key Actions	Progress to date
municipalities to encourage river-related links and trails between communities.	<ul style="list-style-type: none"> • Staff continue to report on the Heritage River Designation • GRCA co-ordinated the Wellington County Natural Heritage Strategy Mapping Project that was completed in 2019 • Staff are working with watershed municipalities to update recreational maintenance agreements that facilitate trail and recreational opportunities along the Grand River and its tributaries • Staff also continue to work with provincial groups (RTOs), NGOs, trail and community groups to develop mutually acceptable relationships to facilitate trail connections and opportunities on GRCA lands

Strategic Priority 4 – Managing land holdings in a responsible and sustainable way.

Lands around Belwood and Conestogo reservoirs support a cottage lot program with over 700 tenants. In addition, houses on land purchased for reservoirs and natural areas have been rented to tenants for several years, and this program is winding down. Land is being evaluated and sold where appropriate, with funds placed in a reserve for high-priority projects like future land acquisition or repairs to our flood control infrastructure. Hydro is produced at GRCA dams where economically feasible.

Passive areas, especially those near urban centres, are expected to see a significant increase in public use. With increased use there is potential for conflict among user groups and impacts on sensitive natural areas. Passive areas and rail-trails are managed with limited resources. Invasive species like emerald ash borer and phragmites, and weather-related events like ice and wind storms, will continue to cause damage to GRCA properties and natural areas.

The following table provides a breakdown of each key action and the progress we have achieved to date.

Key Action	Progress to date
Prepare management plans for our passive lands where there is a high level of conflicting uses, and establish a long-term funding plan for these areas	<ul style="list-style-type: none"> • Niska Management Plan (City of Guelph): field work has been completed for the Natural Heritage characterization and draft report is underway • Completion of 11 subwatershed natural heritage characterizations for the Grand River watershed that complements other watershed management plans and will inform GRCA conservation and restoration efforts to improve watershed health • Discussion and request for provincial funding was completed for the Puslinch Tract property (Township of Puslinch) • Work has begun on developing a GRCA lands classification system to help better guide decisions on use of GRCA passive recreation lands • Staff are working closely with municipalities where unauthorized tenting has been identified on GRCA lands

Key Action	Progress to date
Prepare lands for sale where appropriate.	<ul style="list-style-type: none"> • Wind-down of the residential tenancy program has continued. Between 2019-2021: <ul style="list-style-type: none"> • 8 are under lease • 5 buildings were demolished • 3 have been sold • 2 are conditionally sold • Staff have continued to work with municipalities and other public agencies to facilitate the disposition of lands that are surplus to the GRCA
Continue to actively manage hazard trees in accordance with the Tree Risk Management Plan.	<ul style="list-style-type: none"> • Co-ordination of EAB Strategy: reporting and implementation of monitoring and treatments on GRCA properties • As of 2021, there are 178 individual ash trees receiving ongoing EAB treatments on 19 GRCA properties distributed across the watershed • \$2.6 million in approved spending to assist with ash hazard trees due to EAB. More than 16000 ash hazard trees were removed from 2014 to Mar.31, 2021, and hazard tree work continues with ongoing costs incorporated into the operating budget
Manage and enhance GRCA natural areas with funding support from partners.	<ul style="list-style-type: none"> • Planted 40,500+ trees across multiple GRCA properties • Taquanyah Phragmites Control/Virginia Mallow Conservation • Other invasive species management actions on GRCA land included: <ul style="list-style-type: none"> • targeting LLD moth • injections to protect ash trees from EAB • dog strangling vine, buckthorn, phragmites and cardinal autumn olive • Grassland habitat management was conducted on the following GRCA properties: Luther Marsh, Morton, Birkett Lane, Brant Park & Dickson • Ecological monitoring and inventories • Mill Creek Stewardship Rangers – trail and creek improvements at Shades Mills Conservation Area • Participated in the Wellesley Pond Enhancement Project - pond concepts and shoreline naturalization • Volunteer Program 2018 and 2019 <ul style="list-style-type: none"> • Laurel Creek Nature Centre and Laurel Creek Conservation Area - invasive species removal and habitat enhancement • Guelph Lake Nature Centre Learning Grounds Trail creation and naturalization • Guelph Lake Conservation Area – tree planting, bird box maintenance • Shades Mills Conservation Area – invasive removal, trail maintenance, wildflower planting, shoreline clean up • Belwood Conservation Area Shoreline Cleanup • Pinehurst Conservation Area Cleanup

Process for Updating the Strategic Plan

The main strategic goals of the 2019-2021 Plan remain relevant in current day operations. It is recommended that current strategic goals be updated with revised key actions that are reflective of expectations for 2022-2024.

It is also recommended that consideration be given to include strategic goals that encompass the work required to come into conformance with the changes to the Conservation Authorities Act and the new/updated regulations.

Finally, the Grand River watershed is located on the traditional lands of many Indigenous peoples dating back generations. As a conservation authority, we are grateful to have had the opportunity to be stewards of this land along with our Indigenous, government and community partners. As such, it is also recommended that through this update to the strategic plan, the GRCA identify the key actions needed to build stronger relationships with its Indigenous partners and recognize the Indigenous contributions in shaping, strengthening and stewarding the watershed

Financial Implications:

Not applicable.

Other Department Considerations:

Not applicable.

Submitted by:

Samantha Lawson
Chief Administrative Officer

Grand River Conservation Authority

Report number: GM-01-22-06

Date: January 28, 2022

To: Members of the Grand River Conservation Authority

Subject: Budget 2022 – Draft #2

Recommendation:

THAT Report Number 01-22-06 - Budget 2022 - Draft #2 be received as information;

AND THAT an amount equal to any undesignated surplus realized from the 2021 year-end operating results be transferred to the Transition reserve at the end of 2021.

Summary:

This draft continues to present a balanced budget position for 2022.

This draft of the budget includes the following significant changes since the September 24, 2021 draft #1 budget report:

- \$720,000 Special Projects spending
- (\$720,000) Special Project funding increased
- \$260,000 Motor Pool capital spending increased
- (\$260,000) Transfer from Motor Pool Reserve increased
- \$182,000 Staffing expense increase
- (\$182,000) Transfer to Transition Reserve reduced

This report includes a recommendation to transfer a portion of the 2021 operating surplus into the transition reserve at year-end 2021.

The Final Budget will include adjustments to the Outdoor Education program, Conservation Area program, Forestry (Tree Planting) program, special projects, expenses carried forward from 2021, and the 2021 surplus carry forward (based on audited 2021 results). These adjustments are not anticipated to affect the 2022 budgeted general levy increase of 2.5%.

This draft includes the following amounts:

- Expenditures \$31,902,188
- General Municipal Levy \$12,530,000 (\$305,000 or 2.5% increase over prior year)
- Provincial Water and Erosion Control Infrastructure (WECI) Grant \$700,000
- Provincial Source Protection Program Grant \$640,000
- Reserves to decrease by \$927,500 in 2022

Report:

The final 2022 budget will be presented for approval at the February 25, 2022 General Membership Meeting.

This draft of the 2022 Budget includes the following changes made since the September 24, 2021 General Membership Meeting:

Special Projects Budget 2022 (net increase in expenses \$720,000):

\$ 130,000	Waste Water Optimization Project expenses increased
\$ 130,000	Provincial funding increased
\$ 100,000	Ecological Restoration Project expenses increased
\$ 100,000	Other Donations funding increased
\$ 100,000	Great Lakes Protection Initiative Project expenses increased
\$ 100,000	Federal Government funding increased
\$ 70,000	Precision Agriculture-OMFRA Project expenses increased
\$ 70,000	Provincial funding increased
\$ 240,000	Trail Maintenance Project expenses increased
\$ 240,000	Foundation funding increased
\$ 80,000	Subwatershed Study-City of Kitchener
\$ 80,000	Municipal Funding-Other

Capital Budget 2022 (net increase in expenses \$260,000)

\$260,000	Motor Pool Equipment expenses increased (carry forward from 2021)
\$260,000	Transfer from Motor Pool Reserve increased

Operating Budget 2022 (net increase in expenses \$182,000)

\$182,000	Compensation and Benefit expenses increased (add Lands Management Director Position)
\$182,000	Transfer to Transition reserve decreased

The addition of a Lands Management Director position is part of an overall restructuring being undertaken in order to address GRCA's transition to the new provincial regulations under the Conservation Authorities Act. Restructuring commenced in 2020 with the elimination of a few staff positions.

Transition Reserve

The transition reserve was established at year-end 2020. The purpose of the reserve is to fund expenditures related to the transitioning of GRCA to new provincial regulations requirements and/or fund costs related to managing expenses impacted by COVID-19 or revenue losses due to COVID-19. It is recommended that any 2021 year-end operating surplus that has not been designated to be incorporated into the 2022 budget be transferred to the transition reserve in 2021. The amount to be transferred into this reserve will be finalized in the 2022 final budget report at the February 25, 2022 General Meeting. By February, the year-end audit will have been completed and the year-end 2021 operating surplus will be finalized.

The strategy for Budget 2022 draft #1 was to increase municipal general levy by 2.5%. Any resulting net surplus was transferred into the transition reserve. As a result, Budget 2022 draft #1 included a transfer of \$182,000 into the transition reserve. Budget draft #2 has added a Lands Management Director position and this cost increase is being offset by eliminating the transfer to the transition reserve that was part of budget 2022 draft #1. As a result, the addition of this position has no impact on the bottom line operating results.

Significant Outstanding Budget Items

Draft #2 operating budget continues to assume status quo operations. After actual 2021 figures are finalized, the final budget will be prepared and the outstanding matters listed below will be addressed.

(a) Year 2021 Carry forward Adjustments

2021 Surplus carry forward

This draft of the 2021 Budget assumes a \$100,000 surplus carry over from year 2021. The December 2021 Financial Summary for year-end 2021 forecasts a \$709,000 surplus. Some surplus will be carried over to 2022 to cover additional costs added to the 2022 budget. Staff recommend that any 2021 surplus that is not required to achieve a breakeven 2022 budget (i.e. municipal levy increase kept to 2.5%) be transferred into the transition reserve as outlined above. The amount of surplus to be transferred to the transition reserve is estimated to be between \$500,000 and \$600,000. The 2021 carry forward surplus will be updated based on the actual yearend results.

2022 Special Projects carry forward

Any projects commenced in year 2021 or earlier and not completed by December 31, 2021 will be carried forward and added to Budget 2022 (i.e. both the funding and the expense will be added to Budget 2022 and therefore these adjustments will have no impact on the breakeven net result).

(b) Conservation Areas

Conservation Area 2022 budgeted revenue is \$8,500,000. Actual 2021 revenue is approximately \$9,500,000. The final budget version will incorporate an increased revenue target along with revised operating and capital expense amounts. The program is budgeted to break even.

(c) Outdoor Education Program

Following an analysis of actual 2021 expenses and contract confirmations the final budget version will be revised as considered necessary.

(d) Forestry (Tree Planting) Program

Following an analysis of actual 2021 expenses the final budget version will be revised as considered necessary.

(e) Major Water Control Structures Capital Maintenance Expenditures

A final determination of the amount of spending to be added to Budget 2022 will be impacted by unspent amounts from 2021 that will be carried forward to 2022, including the use of the reserve for 2022 projects. Current government funding opportunities includes the Disaster Mitigation and Adaptation Fund (DMAF), the National Damage Mitigation Program (NDMP), and the Provincial Water and Erosion Control Infrastructure (WECI) Program.

Attached are the following related documents:

- Budget 2022 Timetable
- Summary Reserve Report – Budget 2022
- Preliminary Budget 2022 Package to Municipalities

Financial Implications:

In this draft, the GRCA is proposing a \$31,902,188 budget. A net decrease to reserves of \$927,500 is budgeted.

The current inflationary economic situation and supply chain challenges created by the pandemic has the potential to result in significant unbudgeted cost increases, in particular, for large purchases/capital projects, which in turn may result in outcomes such as deferral of projects, changes in the scope of projects and/or the use of reserves to fund unbudgeted costs.

Other Department Considerations:

None

Prepared by:

Sonja Radoja
Manager of Corporate Services

Approved by:

Karen Armstrong
Deputy CAO/Secretary-Treasurer



2022 BUDGET

(Draft to January 28, 2022 General Board Meeting)

Grand River Conservation Authority

2022 Budget

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GRCA 2022 Budget Highlights

The Grand River Conservation Authority is a successful partnership of municipalities, working together to promote and undertake wise management of the water and natural resources of the Grand River watershed.

The Grand River stretches 300 kilometres from Dundalk in Dufferin County to Port Maitland on Lake Erie. It takes in one of the fastest growing regions in the province, with a population of approximately 1,000,000. The Grand River watershed is also home to some of the most intensively farmed land in the nation.

The prospect of high growth and the impact on water and natural resources and the quality of life present an enormous challenge to the GRCA, municipalities and all watershed residents. It creates an urgent need to work co-operatively to care wisely for the Grand River and its resources.

The work of the GRCA is divided into seven business areas:

- Reducing flood damages
- Improving water quality
- Maintaining reliable water supply
- Protecting natural areas and biodiversity
- Watershed planning
- Environmental education
- Outdoor recreation

In order to carry out these functions, the GRCA draws revenues from a variety of sources:

- User fees, such as park admissions, nature centre programs, planning fees and others which are set to offset most, if not all, the cost of these services
- Revenues from property rentals and hydro generation at our dams
- Municipal levies, which are applied primarily to watershed management programs
- Municipal grants dedicated to specific programs, such as the Rural Water Quality Program and Water Quality Monitoring
- Provincial transfer payments for water management operating expenses
- Provincial grants for specific purposes, such as the provincial Source Protection Program and Capital Projects related to water management
- Donations from the Grand River Conservation Foundation for programs such as outdoor education, tree nursery operations and various special projects
- Federal grants and other miscellaneous sources of revenue

The GRCA continues to work on the updates and implementation of a Drinking Water Source Protection Plan for each of the four watersheds in the Lake Erie Source Protection Region, including the Grand River watershed, as part of the provincial Source Protection Program under the *Clean Water Act, 2006*. Besides supporting municipalities and other agencies in implementing the plans, the focus in 2022 continues on completing updates to the Grand River Source Protection Plan, including development of water quantity policies, updating water quality vulnerability assessments, and the development of the annual progress report for the Grand River Source Protection Plan.

In 2022 terms of reference for a watershed strategy, a requirement of the updated Conservation Authorities Act, will be developed. The existing water management plan will provide important information to the Watershed Strategy. Renewed engagement with municipal, provincial and federal water management staff will be an important focus in 2022.

In 2022 GRCA continues to manage the challenges resulting from the on-going COVID-19 pandemic.

1. Watershed Management and Monitoring

Watershed management and monitoring programs protect watershed residents from flooding and provide the information required to develop appropriate resource management strategies and to identify priority actions to maintain a healthy watershed. Activities include operation of flood and erosion control structures such as dikes and dams; flood forecasting and warning; water quality monitoring; natural heritage restoration and rehabilitation projects; water quantity assessment; watershed and subwatershed studies.

Operating Expenditures:

Water Resources Planning and Environment	\$2,252,400 (Table 1)
Flood Forecasting and Warning	\$ 843,000 (Table 2)
Water Control Structures	\$1,822,700 (Table 3)

Capital Expenditures: **\$1,800,000** (Section B)

Total Expenditures: **\$6,718,100**

Revenue sources: Municipal levies, provincial grants and reserves

2. Planning

Program areas:

- a) Natural Hazard Regulations
The administration of conservation authority regulations related to development in the floodplain, and other natural hazards e.g. wetlands, slopes, shorelines and watercourses.
- b) Plan Input and Review
Planning and technical review of municipal planning documents and recommending environmental policies for floodplains, wetlands and other environmentally significant areas; providing advice and information to municipal councils on development proposals and severances; review of environmental assessments; and providing outside consulting services on a fee-for-service basis to other conservation authorities and agencies.

Operating Expenditures: **\$2,351,200** (Table 4)

Capital Expenditures: **NIL**

Revenue sources: Permit fees, enquiry fees, plan review fees, and municipal levy

3. Watershed stewardship

The watershed stewardship program provides information and/or assistance to private and public landowners and community groups on sound water and environmental practices that will enhance, restore or protect their properties. Some activities are reforestation/tree planting through the Burford Tree Nursery, the Rural Water Quality Program, restoration and rehabilitation projects. The program also, provides conservation information through workshops, publications, the web site and media contacts.

Operating Expenditures:

Forestry & Conservation Land Taxes	\$ 1,380,500 (Table 5)
Conservation Services	\$ 586,200 (Table 6)

Capital Expenditures:	NIL
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Total Expenditures:	\$ 1,966,700
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Revenue sources:

Municipal levies and grants, provincial grants, tree sales, landowner contributions, donations from the Grand River Conservation Foundation and other donations.

4. Conservation Land Management

This includes expenses and revenues associated with the acquisition and management of land owned or managed by the GRCA including woodlots, provincially significant wetlands (e.g. Luther Marsh, Dunnville Marsh), passive conservation areas, rail-trails and a number of rental properties. Activities include forest management, woodlot thinning, and hydro production at our dams.

Operating Expenditures:

Conservation Lands, Rentals, Misc	\$3,947,700 (Table 10-Conservation Lands)
Hydro Production	\$ 210,000 (Table 10-Hydro Production)

Capital Expenditures:	NIL
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Total Expenditures:	\$4,157,700
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Revenue sources:

Property rentals, hydro production, timber sales, conservation land income, donations from the Grand River Conservation Foundation

5. Education

The GRCA operates six nature centres, which provide curriculum-based programs to about 50,000 students from six school boards and independent schools throughout the watershed. In addition, about 16,000 members of the public attend day camps and weekend family and community events.

Operating Expenditures:	\$784,600 (Table 8)
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Capital Expenditures:	NIL
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Revenue sources: School boards, nature centre user fees, community event fees, donations from the Grand River Conservation Foundation and municipal general levy.

6. Recreation

This includes the costs and revenues associated with operating the GRCA's 11 active conservation areas. The GRCA offers camping, hiking, fishing, swimming, skiing and other activities at its parks. It provides 2,200 campsites, making it the second-largest provider of camping accommodation in Ontario. About 1.7 million people visit GRCA parks each year.

Operating Expenditures:	\$ 7,600,000 (Table 10)
Capital Expenditures:	\$ 1,500,000 (Section B)
Total Expenditures:	\$ 9,100,000

Revenue sources:
Conservation Area user fees, government grants, reserves and donations.

7. Corporate services & Strategic Communications

This includes the cost of head office functions such as accounting and human resources, as well as the cost of facilities, insurance, consulting and legal fees and expenses relating to the General Membership.

Operating Expenditures:

Strategic Communications	\$ 577,500 (Table 7)
Corporate Services	\$3,444,388 (Table 9)

Capital Expenditures:	\$ 602,000 (Section B)
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Total Expenditures:	\$4,623,888
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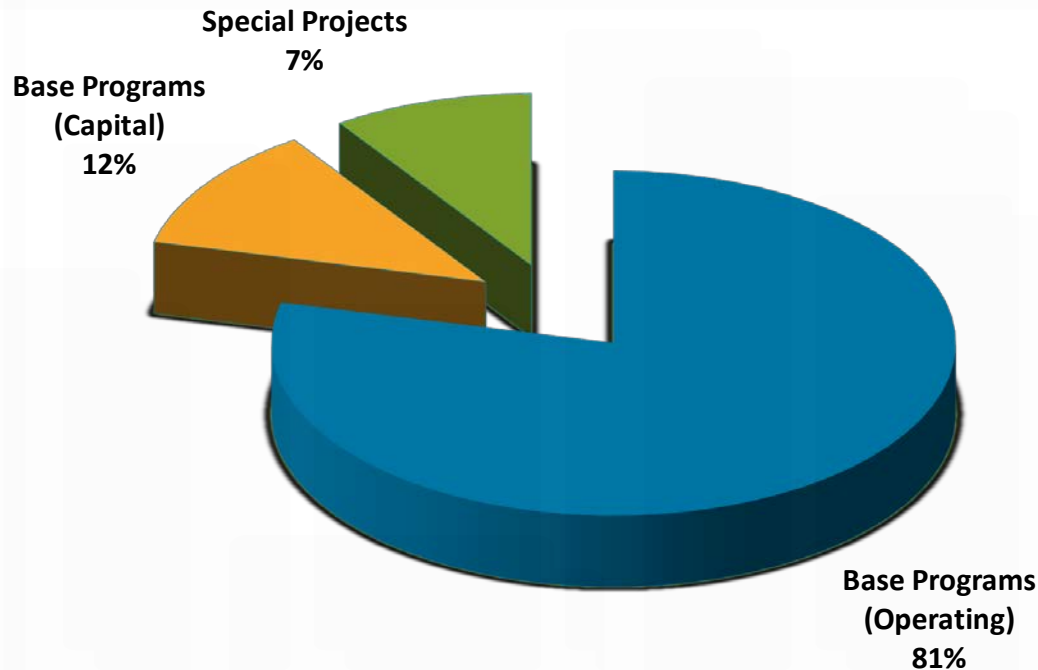
Revenue sources: Municipal levies and reserves.

BUDGET 2022 - Summary of Revenue and Expenditures

FUNDING		Actual 2020	Budget 2021	Budget 2022	Budget Incr/(decr)
Municipal General Levy Funding		11,927,000	12,225,000	12,530,000	305,000 2.49%
Other Government Grants		3,058,703	3,502,188	3,127,188	(375,000) -10.7%
Self-Generated Revenue		15,869,456	13,577,241	14,776,000	1,198,759 8.8%
Funding from Reserves		788,467	2,669,000	1,469,000	(1,200,000) -45.0%
TOTAL FUNDING		31,643,626	31,973,429	31,902,188	(71,241) -0.2%
EXPENDITURES		Actual 2020	Budget 2021	Budget 2022	Budget Incr/(decr)
Base Programs - Operating includes funding to reserves	SECTION A	26,583,370	25,178,429	25,800,188	621,759 2.47%
Base Programs - Capital	SECTION B	2,450,132	3,757,000	3,902,000	145,000 3.86%
Special Projects	SECTION C	2,293,883	3,038,000	2,200,000	(838,000) -27.6%
TOTAL EXPENDITURES		31,327,385	31,973,429	31,902,188	(71,241) -0.2%
NET RESULT		316,241	-	-	

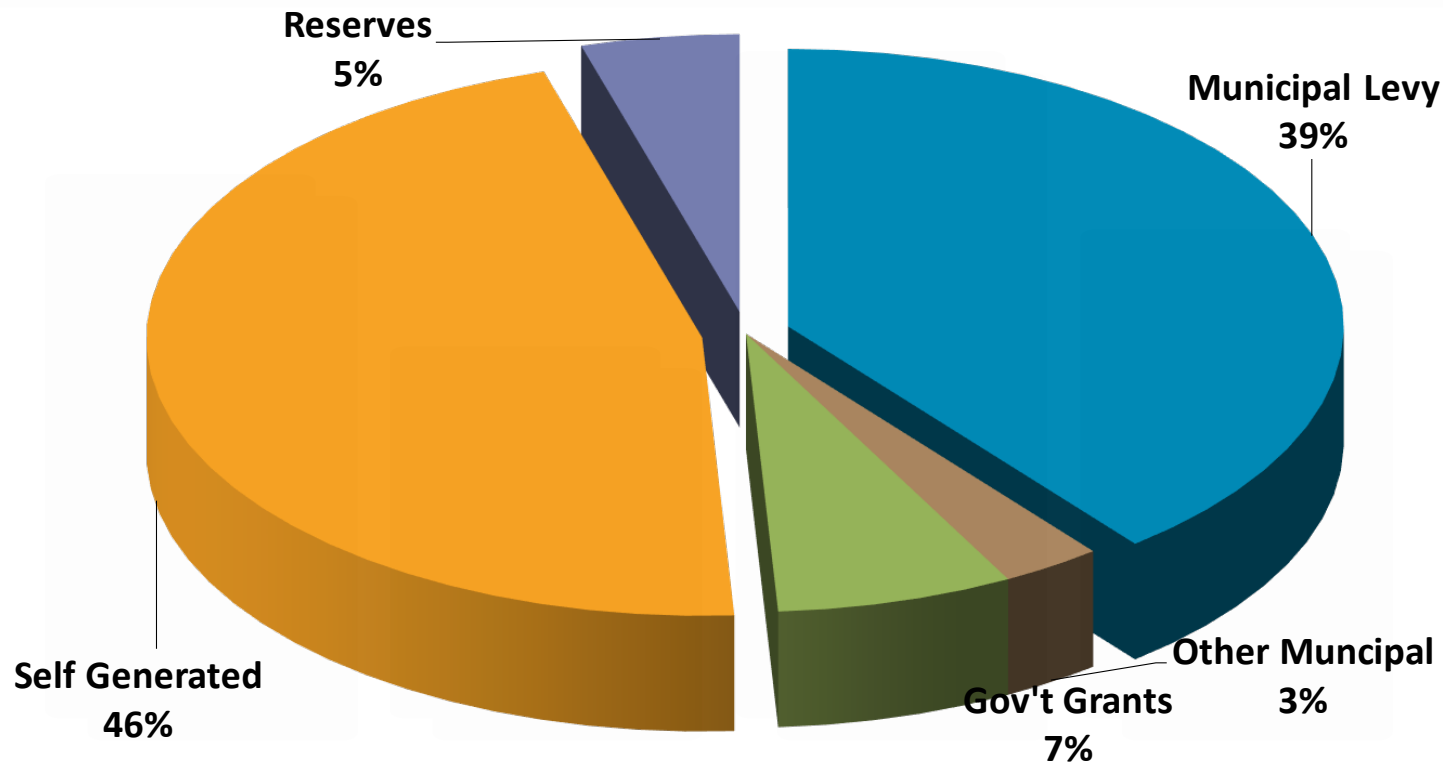
2022 Budget – Expenditures by Category

2022 Budget Expenditures = \$32.0 Million (\$ 32.0 Million in 2021)

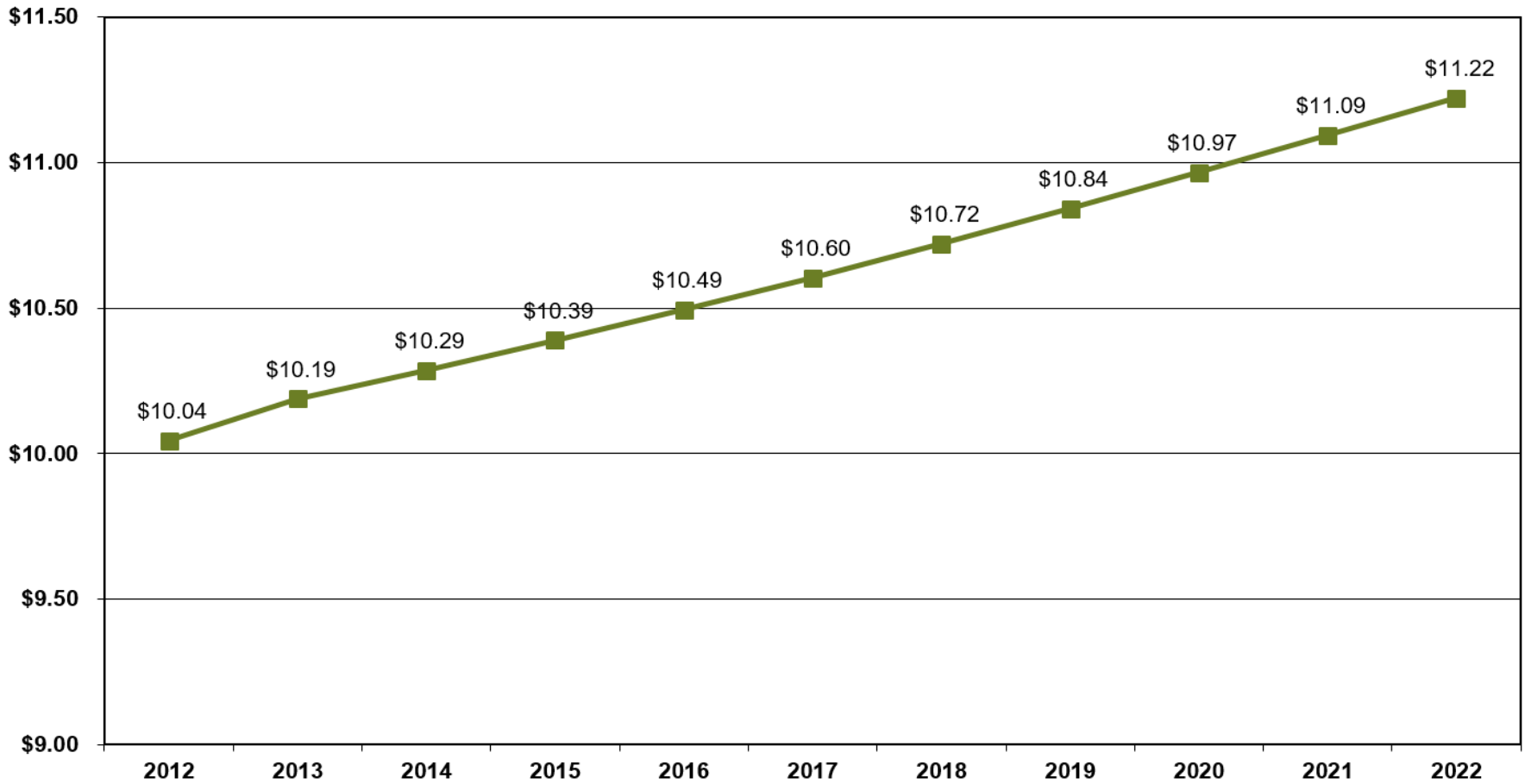


2021 Budget – Revenue by Source

Total 2022 Budget Revenue = \$32.0 Million (\$ 32.0 Million in 2021)



Grand River Conservation Authority Per Capita General Levy (2012 to 2022)



Budget 2022 - Summary of Expenditures, Funding and Change in Municipal Levy

[illegible]

Grand River Conservation Authority Summary of Municipal Levy - 2022 Budget

DRAFT - January 28, 2022

	% CVA in Watershed	2021 CVA (Modified)	CVA in Watershed	CVA-Based Apportionment	2022 Budget Matching & Maintenance Levy	2022 Budget Non-Matching Admin & Maintenance Levy	2022 Budget Capital Maintenance* Levy	2022 Budget Total Levy	Actual 2021 Levy	% Change
Brant County	82.9%	7,152,903,252	5,929,756,796	2.89%	12,982	321,325	27,426	361,733	346,966	4.3%
Brantford C	100.0%	15,171,006,775	15,171,006,775	7.39%	33,214	822,096	70,168	925,478	900,728	2.7%
Amaranth Twp	82.0%	805,874,920	660,817,435	0.32%	1,447	35,809	3,056	40,312	39,382	2.4%
East Garafraxa Twp	80.0%	636,291,613	509,033,291	0.25%	1,114	27,584	2,354	31,052	30,223	2.7%
Town of Grand Valley	100.0%	572,436,944	572,436,944	0.28%	1,253	31,020	2,648	34,921	33,396	4.6%
Melancthon Twp	56.0%	596,750,730	334,180,409	0.16%	732	18,109	1,546	20,387	19,819	2.9%
Southgate Twp	6.0%	1,069,060,421	64,143,625	0.03%	140	3,476	297	3,913	3,742	4.6%
Haldimand County	41.0%	7,199,269,194	2,951,700,369	1.44%	6,462	159,949	13,652	180,063	175,140	2.8%
Norfolk County	5.0%	9,741,823,806	487,091,190	0.24%	1,066	26,395	2,253	29,714	28,914	2.8%
Halton Region	10.5%	47,621,739,315	4,993,025,690	2.43%	10,931	270,565	23,093	304,589	291,881	4.4%
Hamilton City	26.8%	95,456,549,475	25,534,626,985	12.43%	55,904	1,383,687	118,101	1,557,692	1,519,505	2.5%
Oxford County	36.6%	4,499,227,699	1,647,153,567	0.80%	3,606	89,257	7,618	100,481	97,921	2.6%
North Perth T	2.0%	2,277,397,479	45,547,950	0.02%	100	2,468	211	2,779	2,686	3.5%
Perth East Twp	40.0%	2,032,561,232	813,024,493	0.40%	1,780	44,057	3,760	49,597	49,250	0.7%
Waterloo Region	100.0%	103,684,590,749	103,684,590,749	50.48%	227,002	5,618,527	479,556	6,325,085	6,182,792	2.3%
Centre Wellington Twp	100.0%	5,241,852,365	5,241,852,365	2.55%	11,476	284,049	24,244	319,769	308,584	3.6%
Erin T	49.0%	2,579,400,498	1,263,906,244	0.62%	2,767	68,489	5,846	77,102	75,545	2.1%
Guelph C	100.0%	27,911,493,324	27,911,493,324	13.59%	61,108	1,512,486	129,094	1,702,688	1,668,479	2.1%
Guelph Eramosa Twp	100.0%	2,893,069,163	2,893,069,163	1.41%	6,334	156,771	13,381	176,486	171,662	2.8%
Mapleton Twp	95.0%	1,838,975,064	1,747,026,311	0.85%	3,825	94,669	8,080	106,574	103,123	3.3%
Wellington North Twp	51.0%	1,776,628,376	906,080,472	0.44%	1,984	49,099	4,191	55,274	53,744	2.8%
Puslinch Twp	75.0%	2,717,055,073	2,037,791,305	0.99%	4,461	110,425	9,425	124,311	121,518	2.3%
Total		343,475,957,466	205,399,355,452	100.00%	449,688	11,130,312	950,000	12,530,000	12,225,000	2.5%

*Capital Maintenance Levy represents levy allocated to maintenance of capital infrastructure, studies, and/or equipment.

SECTION A

BASE PROGRAMS – OPERATING

SECTION A - Operating Budget

GRAND RIVER CONSERVATION AUTHORITY

Budget 2022 vs Budget 2021

	Actual 2020	Budget 2021	Budget 2022	Incr/(Decr)	%age change
<u>EXPENDITURES</u>					
OPERATING EXPENSES	26,583,370	25,178,429	25,800,188	621,759	2.42%
Total Expenses	26,583,370	25,178,429	25,800,188	621,759	2.42%
<u>SOURCES OF FUNDING</u>					
MUNICIPAL GENERAL LEVY (NOTE)	10,628,727	11,275,000	11,580,000	305,000	2.96%
MUNICIPAL SPECIAL LEVY	13,135	50,000	50,000	-	0.00%
OTHER GOVT FUNDING	744,029	517,188	517,188	-	0.00%
SELF-GENERATED	14,758,775	12,903,000	13,436,000	533,000	3.85%
RESERVES	61,417	117,000	117,000	-	0.00%
SURPLUS CARRYFORWARD	377,287	316,241	100,000	(216,241)	-52.45%
Total BASE Funding	26,583,370	25,178,429	25,800,188	621,759	2.42%

NOTE: See "Summary of Revenue, Expenditures and Changes in Municipal Levy" for details of \$305,000 levy increase.

TABLE 1

(a) Watershed Studies

This category includes watershed and subwatershed studies. These studies provide the strategic framework for understanding water resources and ecosystem form, functions and linkages. These allow for assessment of the impacts of changes in watershed resources and land use. Watershed studies also identify activities and actions that are needed to minimize the adverse impacts of change. This program supports other plans and programs that promote healthy watersheds.

Specific Activities:

- Carry out or partner with municipalities and other stakeholders on integrated subwatershed plans for streams and tributaries. Subwatershed Plans are technical reports which provide comprehensive background on how surface water, groundwater, terrestrial and aquatic ecosystems function in a subwatershed. The plans recommend how planned changes such as urbanization can take place in a sustainable manner. Subwatershed studies are ongoing or planned in the City of Kitchener, Region of Waterloo, City of Guelph and City of Brantford.
- Development of terms of reference for a Watershed Strategy required under the new Conservation Authorities Act.

(b) Water Resources Planning and Environment and Support

This category includes the collection and analysis of environmental data and the development of management plans for protection and management of water resources and natural heritage systems. These programs assist with implementation of monitoring water and natural resources and assessment of changes in watershed health and priority management areas.

Specific Activities:

- operate 8 continuous river water quality monitoring stations, 73 stream flow monitoring stations, 27 groundwater monitoring stations, and 37 water quality monitoring stations in conjunction with MOE, apply state-of-the-art water quality assimilation model to determine optimum sewage treatment options in the central Grand, and provide technical input to municipal water quality issues
- analyze and report on water quality conditions in the Grand River watershed
- maintain a water budget to support sustainable water use in the watershed, and maintain a drought response program
- analyze water use data for the watershed and provide recommendations for water conservation approaches

- provide advice to Provincial Ministries regarding water use permits to ensure that significant environmental concerns are identified so that potential impacts can be addressed.

(c) Resource Management Division Support

Provides support services to the Engineering and Resource Management Divisions including support for Flood Forecasting and Warning and Water Control Structures.

Specific Spending:

- administrative services
- travel, communication, staff development and computer
- insurance

(d) Natural Heritage Management

The natural heritage management program includes those activities associated with providing service and/or assistance to municipalities, private and public landowners and community groups on sound environmental practices that will enhance, restore or protect the aquatic and terrestrial ecosystems. The program includes watershed scale natural heritage assessments and implements restoration activities on GRCA land.

Specific Activities:

- maintain and promote the ‘Grand River Fisheries Management Plan’.
- implement “best bets” for protection and enhancement of fisheries, work with outside agencies, non-government organizations and the public to improve fish habitat through stream rehabilitation projects including the implementation of the recommendations of the watershed studies.
- maintain and implement the Forest Management Plan for the Grand River watershed and develop and implement components of the watershed Emerald Ash Borer strategy
- carry out restoration and rehabilitation projects for aquatic and terrestrial ecosystems e.g. species at risk and ecological monitoring on GRCA lands, and prescribed burn activities and community events such as tree planting and stream restoration
- provide technical input and review services for applications that may affect the watershed ecosystems.

TABLE 1
GRAND RIVER CONSERVATION AUTHORITY
Water Resources Planning & Environment

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget Change
Expenses:				incr/(decr)
Salary and Benefits	1,225,680	1,519,000	1,684,000	165,000
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	240,903	268,300	268,300	0
Insurance	102,144	107,300	135,000	27,700
Other Operating Expenses	49,269	165,100	165,100	0
Amount set aside to Reserves	515,000	186,000	-	(186,000)
TOTAL EXPENSE	2,132,996	2,245,700	2,252,400	6,700
Funding				(incr)/decr
Municipal Special/Other	13,135	50,000	50,000	0
Prov & Federal Govt	-	37,500	37,500	0
Funds taken from Reserves	-	-	-	0
TOTAL FUNDING	13,135	87,500	87,500	-
Net Funded by General Municipal Levy	2,119,861	2,158,200	2,164,900	
Net incr/(decr) to Municipal Levy				6,700

TABLE 2

Flood Forecasting and Warning

The flood warning system includes the direct costs associated with monitoring the streams, and rivers in order to effectively provide warnings and guidance to municipalities and watershed residents during flood emergencies.

Overall, flood protection services provide watershed residents with an effective and efficient system that will reduce their exposure to the threat of flood damage and loss of life. It is estimated that the existing flood protection in the Grand River watershed saves an average of over \$5.0 million annually in property damage.

Specific Activities:

- maintain a 'state of the art' computerized flood forecasting and warning system.
- operate a 24 hour, year-round, on-call duty officer system to respond to flooding matters.
- collect and manage data on rainfall, water quantity, reservoir conditions, water levels from 56 stream flow gauges, 24 rainfall gauges, and 12 snow courses.
- use Voice Alert system to continuously, monitor river conditions and detect warning levels, assist municipalities with emergency planning, and respond to thousands of inquiries each year.
- assist municipalities with municipal emergency planning and participate in municipal emergency planning exercises when requested.
- hold municipal flood coordinator meetings twice a year to confirm responsibilities of agencies involved in the flood warning system. Test the system. Update and publish a flood warning system guide containing up to date emergency contact information. Maintain update to date emergency contact information throughout the year.

TABLE 2
GRAND RIVER CONSERVATION AUTHORITY
Flood Forecasting & Warning

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget change
Expenses:				incr/(decr)
Salary and Benefits	360,568	484,800	499,000	14,200
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	250,650	236,000	236,000	-
Other Operating Expenses	47,494	108,000	108,000	-
Amount set aside to Reserves	95,000	-	-	-
TOTAL EXPENSE	753,712	828,800	843,000	14,200
Funding				(incr)/decr
MNR Grant	164,338	164,338	164,338	-
TOTAL FUNDING	164,338	164,338	164,338	-
Net Funded by General Municipal Levy	589,374	664,462	678,662	
Net incr/(decr) to Municipal Levy				14,200

TABLE 3

Water Control Structures

This category includes costs associated with the capital and maintenance of structures, the primary purpose of which is to provide protection to life and property. These structures include dams, dykes, berms and channels etc. Also included in this category are non-flood control dams and weirs, which maintain upstream water levels.

Overall, flood protection services provide watershed residents with an effective and efficient system that will reduce their exposure to the threat of flood damage and loss of life. It is estimated that the existing flood protection in the Grand River watershed saves an average of over \$5.0 million annually in property damage.

Specific Activities:

- operate and maintain 7 major multi-purpose reservoirs, which provide flood protection and flow augmentation, and 25 kilometres of dykes in 5 major dyke systems (Kitchener-Bridgeport, Cambridge-Galt, Brantford, Drayton and New Hamburg)
- ensure structural integrity of flood protection infrastructure through dam safety reviews, inspections and monitoring, reconstruction of deteriorating sections of floodwalls and refurbishing of major components of dams and dykes.
- carry out capital upgrades to the flood control structures in order to meet Provincial standards
- operate and maintain 22 non-flood control dams, which are primarily for aesthetic, recreational, municipal fire suppression water supply or municipal drinking water supply intake purposes
- develop and implement plans to decommission failing or obsolete dams
- ice management activities to prevent or respond to flooding resulting from ice jams
- develop and implement public safety plans for structures

TABLE 3
GRAND RIVER CONSERVATION AUTHORITY
Water Control Structures

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget change
<u>Expenses:</u>				incr/(decr)
Salary and Benefits	1,089,653	1,241,000	1,278,000	37,000
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	8,654	29,200	29,200	-
Property Taxes	169,112	170,700	170,700	-
Other Operating Expenses	323,236	344,800	344,800	-
Amount set aside to Reserves	159,000	-	-	-
TOTAL EXPENSE	1,749,655	1,785,700	1,822,700	37,000
<u>Funding</u>				(incr)/decr
MNR Grant	285,350	285,350	285,350	-
TOTAL FUNDING	285,350	285,350	285,350	-
Net Funded by General Municipal Levy	1,464,305	1,500,350	1,537,350	
Net incr/(decr) to Municipal Levy				37,000

TABLE 4

(a) PLANNING - Regulations

This category includes costs and revenues associated with administering the *Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation* made under the *Conservation Authorities Act*. This includes permit review, inspections, permit issuance, enforcement and follow-up, which may include defending appeals.

Specific Activities:

- Process over 1,000 permits each year related to development, alteration or activities that may interfere with the following types of lands:
 - ravines, valleys, steep slopes
 - wetlands including swamps, marshes, bogs, and fens
 - any watercourse, river, creek, floodplain or valley land
 - the Lake Erie shoreline
- The regulation applies to the development activities listed below in the areas listed above:
 - the construction, reconstruction, erection or placing of a building or structure of any kind,
 - any change to a building or structure that would have the effect of altering the use or potential use of the building or structure, increasing the size of the building or structure or increasing the number of dwelling units in the building or structure
 - site grading
 - the temporary or permanent placing, dumping or removal of any material originating on the site or elsewhere.
- maintain policies and guidelines to assist in the protection of sensitive environmental lands (i.e. Policies for the Administration of the Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation)
- enforcement of the Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation and maintain compliance policies and procedures
- update and maintain flood line mapping; develop natural hazards mapping in digital format to be integrated into municipal planning documents and Geographic Information Systems

(b) PLANNING - Municipal Plan Input and Review

This program includes costs and revenues associated with reviewing Official Plans, Secondary and Community Plans, Zoning Bylaws, Environmental Assessments, development applications and other proposals, in accordance with Conservation Authority and provincial or municipal agreements.

Specific Activities:

- review municipal planning and master plan documents and recommend environmental policies and designations for floodplains, wetlands, natural heritage areas, fisheries habitat, hazard lands and shorelines, which support GRCA regulations and complement provincial policies and federal regulations
- provide advice to municipalities regarding environmental assessments, and other proposals such as aggregate and municipal drain applications to ensure that all environmental concerns are adequately identified and that any adverse impacts are minimized or mitigated
- provide information and technical advice to Municipal Councils and Committees and Land Division Committees regarding development applications to assist in making wise land use decisions regarding protection of people and property from natural hazard areas such as flood plains and erosion areas and protection and enhancement of wetlands, fish and wildlife habitat and natural heritage systems

TABLE 4
GRAND RIVER CONSERVATION AUTHORITY
Resource Planning

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget change
Expenses:				incr/(decr)
Salary and Benefits	1,666,157	1,805,000	2,074,000	269,000
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	183,640	222,500	222,500	-
Other Operating Expenses	134,734	54,700	54,700	-
Amount set aside to Reserves	-	35,000	-	(35,000)
-	1,984,531	2,117,200	2,351,200	234,000
Funding				(incr)/decr
Self Generated	976,626	894,000	1,044,000	(150,000)
TOTAL FUNDING	976,626	894,000	1,044,000	(150,000)
Net Funded by General Municipal Levy	1,007,905	1,223,200	1,307,200	
Net incr/(decr) to Municipal Levy				84,000

TABLE 5

Forestry & Property Taxes

The forestry program includes those activities associated with providing service and/or assistance to private and public landowners and community groups on sound environmental practices that will enhance, restore or protect their properties.

This category includes direct delivery of remediation programs including tree planting/reforestation.

General Municipal Levy funds the property tax for GRCA owned natural areas/passive lands.

Specific Activities:

- plant trees on private lands (cost recovery from landowner)
- operate Burford Tree Nursery to grow and supply native and threatened species
- carry out tree planting and other forest management programs on over 7,000 hectares of managed forests on GRCA owned lands
- hazard tree management to protect people and property

TABLE 5
GRAND RIVER CONSERVATION AUTHORITY
Forestry & Conservation Land Taxes

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget change
Expenses:				incr/(decr)
Salary and Benefits	383,527	515,500	531,000	15,500
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	46,884	54,300	54,300	0
Property Taxes	172,924	183,200	183,200	0
Other Operating Expenses	255,321	612,000	612,000	0
TOTAL EXPENSE	858,656	1,365,000	1,380,500	15,500
Funding				(incr)/decr
Donations	10,609	27,000	27,000	-
Self Generated	186,295	550,000	550,000	-
TOTAL FUNDING	196,904	577,000	577,000	0
Net Funded by General Municipal Levy	661,752	788,000	803,500	
Net incr/(decr) to Municipal Levy				15,500

TABLE 6

Conservation Services

The Conservation Services program includes those activities associated with providing service and/or assistance to private and public landowners and community groups implementing projects to conserve and enhance natural resources on their properties.

This category includes the Rural Water Quality program and Forestry extension services.

Specific Activities:

- Co-ordinate the Rural Water Quality Program. This involves landowner contact, community outreach and delivery of a grant program to encourage adoption of agricultural management practices and projects to improve and protect water quality. Funding for this important initiative comes from watershed municipalities and other government grants.
- Carry out tree planting, and naturalization projects with private landowners
- Co-ordinate community events e.g. children's water festivals and agricultural and rural landowner workshops to promote landowner environmental stewardship action
- Co-ordinate GRCA Volunteer Program to enable public participation in GRCA environmental activities

TABLE 6
GRAND RIVER CONSERVATION AUTHORITY
Conservation Services

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget change
Expenses:				incr/(decr)
Salary and Benefits	603,645	527,000	478,000	(49,000)
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	79,225	86,200	86,200	-
Other Operating Expenses	2,467	22,000	22,000	-
Amount set aside to Reserves	-	67,000	-	(67,000)
TOTAL EXPENSE	685,337	702,200	586,200	(116,000)
Funding				(incr)/decr
Prov & Federal Govt	-	30,000	30,000	-
Donations/Other	6,478	-	-	-
Funds taken from Reserves	552	1,000	1,000	-
TOTAL FUNDING	7,030	31,000	31,000	-
Net Funded by General Municipal Levy	678,307	671,200	555,200	
Net incr/(decr) to Municipal Levy				(116,000)

TABLE 7

Strategic Communications

The communications department provides a wide range of services and support for the GRCA, the Grand River Conservation Foundation, and the Lake Erie Region Source Protection Program. This category includes watershed-wide communication and promotion of conservation issues to watershed residents, municipalities and other agencies.

Communications - Specific Activities:

- Media relations
- Public relations and awareness building
- Online communications
- Issues management and crisis communications
- Community engagement and public consultation
- Corporate brand management

TABLE 7
GRAND RIVER CONSERVATION AUTHORITY
Strategic Communications

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget change
Expenses:				incr/(decr)
Salary and Benefits	498,265	439,000	492,000	53,000
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	59,534	62,000	62,000	-
Other Operating Expenses	7,211	23,500	23,500	-
Amount set aside to Reserves	-	55,000	-	(55,000)
TOTAL EXPENSE	565,010	579,500	577,500	(2,000)
Funding				
Net Funded by General Municipal Levy	565,010	579,500	577,500	
Net incr/(decr) to Municipal Levy				(2,000)

TABLE 8

Environmental Education

This category includes costs and revenues associated with outdoor education facilities, which provide education and information about conservation, the environment and the Conservation Authority's programs to 50,000 students in 6 school boards and 16,000 members of the general public annually. The majority of funding for this program comes from school boards, the Grand River Conservation Foundation and public program fees.

Specific Activities:

- operate 6 outdoor education centres under contract with watershed school boards, providing hands-on, curriculum-based, outdoor education (App's Mills near Brantford, Taquanyah near Cayuga, Guelph Lake, Laurel Creek in Waterloo, Shade's Mills in Cambridge and Rockwood)
- offer curriculum support materials and workshops to watershed school boards
- offer conservation day camps to watershed children and interpretive community programs to the public (user fees apply)

TABLE 8
GRAND RIVER CONSERVATION AUTHORITY
Environmental Education

OPERATING	Actual 2020	Budget 2021	Budget 2022	Budget change
Expenses:				incr/(decr)
Salary and Benefits	357,754	610,000	553,000	(57,000)
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	80,272	57,000	57,000	0
Insurance	15,623	16,000	17,000	1,000
Property Taxes	12,007	14,000	14,000	0
Other Operating Expenses	136,668	143,600	143,600	0
TOTAL EXPENSE	602,324	840,600	784,600	(56,000)
Funding				(incr)/decr
Provincial & Federal Grants	0	0	0	0
Donations	9,675	0	0	-
Self Generated	234,044	500,000	500,000	0
TOTAL FUNDING	243,719	500,000	500,000	0
Net Funded by General Municipal Levy	358,605	340,600	284,600	
Net incr/(decr) to Municipal Levy				(56,000)

TABLE 9

CORPORATE SERVICES

This category includes the costs for goods and services, as listed below, that are provided corporately. A small portion of these costs is recovered from provincial grants, namely from source protection program funding and from the MNR operating grant.

Specific Activities:

This category includes the following departments:

- Office of the Chief Administrative Officer and the Assistant Chief Administrative Officer/Secretary-Treasurer
- Finance
- Human Resources
- Payroll
- Health & Safety
- Office Services

In addition, this category includes expenses relating to:

- The General Membership
- Head Office Building
- Office Supplies, Postage, Bank fees
- Head Office Communication systems
- Insurance
- Audit fees
- Consulting, Legal, Labour Relations fees
- Health and Safety Equipment, Inspections, Training
- Conservation Ontario fees
- Corporate Professional Development
- General expenses

TABLE 9
GRAND RIVER CONSERVATION AUTHORITY
Corporate Services

40,000

Budget 2022

Deficit to be funded
with Municipal Levy

Expenses:

Salary and Benefits	2,051,000
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	359,000
Insurance	93,000
Other Operating Expenses	941,388
Amount set aside to Reserves	-
TOTAL EXPENSE	3,444,388

Funding

Recoverable Corporate Services Expenses	70,000
Funds taken from Reserves	15,000
TOTAL FUNDING	85,000

Net Result before surplus adjustments	3,359,388
Deficit from Other Programs offset by 2020 Surplus Carryforward	(411,700)
2020 Surplus Carried Forward to 2021 used to reduce Levy	100,000
Net Funded by General Municipal Levy	3,359,388

(411,700)
100,000
(311,700)

Budget 2021

Surplus available to
offset Municipal
Levy Increase

Expenses:

Salary and Benefits	2,011,000
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	379,000
Insurance	70,000
Other Operating Expenses	1,237,629
TOTAL EXPENSE	3,697,629

Funding

Recoverable Corporate Services Expenses	70,000
Funds taken from Reserves	15,000
TOTAL FUNDING	85,000

Net Result before surplus adjustments	3,612,629
Deficit from Other Programs offset by 2020 Surplus Carryforward	(53,100)
2020 Surplus Carried Forward to 2021 used to reduce Levy	316,241
Net Funded by General Municipal Levy	3,612,629

(53,100)
316,241
263,141

ACTUAL 2020

Surplus available to
offset Municipal
Levy

Expenses:

Salary and Benefits	2,335,913
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	239,501
Insurance	66,784
Other Operating Expenses	906,035
Amount set aside to Reserves	242,000
TOTAL EXPENSE	3,790,233

Funding

Federal Grant	25,000
Donations/Other	(34)
Recoverable Corporate Services Expenses	57,186
TOTAL FUNDING	82,152

Net Result before surplus/(deficit) adjustments	3,708,081
2020 Surplus from Other Programs used to reduce Levy	147,186
2019 Surplus Carried Forward to 2020 used to reduce Levy	377,287
Net Funded by General Municipal Levy	3,708,081

147,186
377,287
524,473

TABLE 10 (a)

Conservation Lands, Rental Properties, Forestry & Misc

The Conservation Land Management Program includes all expenses and revenues associated with acquisition and management of land owned/managed by the Authority. This includes protection of provincially significant conservation lands, woodlot management, rental/lease agreements and other revenues generated from managing lands and facilities. These expenses do not include those associated with the “active” Conservation Areas and outdoor education programs on GRCA lands.

Specific Activities:

- acquire and manage significant wetlands and floodplain lands, e.g. the Luther Marsh Wildlife Management Area, the Keldon Source Area, the Bannister-Wrigley Complex, and the Dunnville Marsh
- operate “passive” conservation areas in order to conserve forests and wildlife habitat (Puslinch Tract in Puslinch, Snyder’s Flats in Bloomingdale, etc.). Some are managed by municipalities or private organizations (Chicopee Ski Club in Kitchener, Scott Park in New Hamburg, etc.)
- develop and maintain extensive trail network on former rail lines owned by GRCA and municipalities (much of this is part of the Trans-Canada Trail network). The Grand River Conservation Foundation is one source of funding for the trails.
- rent 733 cottage lots at Belwood Lake and Conestogo Lake; hold leases on over 1200 hectares of agricultural land and 8 residential units, and over 50 other agreements for use of GRCA lands. Income from these rentals aids in the financing of other GRCA programs
- permit hunting at various locations including Luther Marsh Wildlife Management Area and Conestogo Lake
- carry out forestry disease control, woodlot thinning and selective harvesting on GRCA lands in accordance with the Forest Management Plan while generating income from sale of timber. Income generated helps pay for future forest management activities
- where appropriate, dispose of lands that have been declared surplus and continue to identify and plan for disposition of other surplus lands. Proceeds from future dispositions will be used for acquisition of “Environmentally Significant Conservation Lands” and for other core programs
- payment of non-insured losses and deductibles for vandalism, loss or theft; miscellaneous amounts recovered from insurance settlements

- investment income arising from reserves and funds received in advance of program expenses

TABLE 10 (b)

HYDRO PRODUCTION

This program generates revenue from ‘hydro production’.

Specific Activities:

- generate hydro from turbines in 4 dams, Shand, Conestogo, Guelph and Drimmie; the income is used to fund GRCA programs and repay reserves accordingly for the cost of building/repairing turbines.

TABLE 10 (c)

CONSERVATION AREAS

These programs include costs and revenues associated with delivering recreational programs on GRCA lands and include the costs and revenues associated with day-use, camping, concessions and other activities at GRCA active Conservation Areas.

Specific Activities:

- operate 11 “active” Conservation Areas (8 camping and 3 exclusively day-use) that are enjoyed by over 1.7 million visitors annually. These visitors also help generate significant spin-off revenues for the local economies
- offer camping, hiking, fishing, swimming, boating, picnicking, skiing and related facilities
- provide 2,200 campsites – second only to the provincial park system as a provider of camping accommodation in Ontario
- employ seasonally over 230 students within the conservation areas

TABLE 10
GRAND RIVER CONSERVATION AUTHORITY
OTHER PROGRAMS - OPERATING - SUMMARY of Results

	Conservation Lands	Property Rentals	MISC	(a) Cons Lands, Rental, Misc	(b) Hydro Production	(c) Conservation Areas	TOTAL Other Programs
Budget 2022 - OPERATING							
Expenses:							
Salary and Benefits	1,384,500	703,400	-	2,087,900	68,000	4,476,000	
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	152,600	74,500	-	227,100	-	195,000	
Insurance	209,000	28,000	-	237,000	-	-	
Property Taxes	-	88,000	-	88,000	-	65,000	
Other Operating Expenses (consulting etc)	576,000	701,700	30,000	1,307,700	25,500	2,864,000	
Amount set aside to Reserves	-	-	-	-	116,500	-	
TOTAL EXPENSE	2,322,100	1,595,600	30,000	3,947,700	210,000	7,600,000	11,757,700
Funding							
Self Generated	86,000	2,921,000	108,000	3,115,000	530,000	7,600,000	
Funds taken from Reserves	1,000	100,000	-	101,000	-	-	
TOTAL FUNDING	87,000	3,021,000	108,000	3,216,000	530,000	7,600,000	11,346,000
NET Surplus/(Deficit) for programs not funded by general levy	(2,235,100)	1,425,400	78,000	(731,700)	320,000	-	(411,700)
Budget 2021 - OPERATING							
Expenses:							
Salary and Benefits	1,163,000	590,000	-	1,753,000	66,500	4,200,000	
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	152,600	74,500	-	227,100	-	195,000	
Insurance	157,300	24,000	-	181,300	-	-	
Property Taxes	-	88,000	-	88,000	-	65,000	
Other Operating Expenses (consulting etc)	576,000	701,700	70,000	1,347,700	25,500	2,740,000	
Amount set aside to Reserves	7,000	-	-	7,000	120,000	-	
TOTAL EXPENSE	2,055,900	1,478,200	70,000	3,604,100	212,000	7,200,000	11,016,100
Funding							
Self Generated	86,000	2,898,000	148,000	3,132,000	530,000	7,200,000	
Funds taken from Reserves	1,000	100,000	-	101,000	-	-	
TOTAL FUNDING	87,000	2,998,000	148,000	3,233,000	530,000	7,200,000	10,963,000
NET Surplus/(Deficit) for programs not funded by general levy	(1,968,900)	1,519,800	78,000	(371,100)	318,000	-	(53,100)
Actual 2020 - OPERATING							
Expenses:							
Salary and Benefits	1,128,138	473,235	-	1,601,373	60,790	2,920,276	
Travel, Motor Pool, Expenses, Telephone, Training and Development, IT	117,149	65,204	-	182,353	-	192,530	
Insurance	151,506	19,956	-	171,462	-	-	
Property Taxes	-	122,933	-	122,933	-	59,463	
Other Expenses	417,420	537,374	30,321	985,115	53,639	2,400,949	
Amount set aside to Reserves	3,554,766	275,000	-	3,829,766	585,267	295,000	
TOTAL EXPENSE	5,368,979	1,493,702	30,321	6,893,002	699,696	5,868,218	13,460,916
Funding							
Provincial/Federal	-	-	-	-	220,267	49,074	
Donations	835	-	-	835	-	8,188	
Self Generated	3,533,308	3,041,678	82,224	6,657,210	799,841	5,811,822	
Funds taken from Reserves	-	60,865	-	60,865	-	-	
TOTAL FUNDING	3,534,143	3,102,543	82,224	6,718,910	1,020,108	5,869,084	13,608,102
NET Surplus/(Deficit) for programs not funded by general levy	(1,834,836)	1,608,841	51,903	(174,092)	320,412	866	147,186

OTHER INFORMATION

1. INFORMATION SYSTEMS & TECHNOLOGY - COMPUTER CHARGES

The work of the IS&T Group includes wages, capital purchases and ongoing maintenance and operations is funded through the Information Systems and Technology Reserve. The IS&T Reserve is sustained through a charge back framework. A “Computer Charge” is allocated to the individual programs based on the number of users and the nature of system usage or degree of reliance on IS&T activities and services.

The *Information Systems and Technology* (IS&T) group leads GRCA’s information management activities; develops and acquires business solutions; and oversees investment in information and communications technology as detailed below:

Specific Activities:

- Develop and implement GRCA's long-term information management, information technology and communications plans.
- Assess business needs and develop tools to address requirements, constraints and opportunities. Acquire and implement business and scientific applications for use at GRCA. Manage information technology and business solutions implementation projects on behalf of GRCA, GRCF and the Lake Erie Source Protection Region.
- Develop, and implement GRCA’s Geographic Information Systems (GIS) technology and spatial data infrastructure. Manage GRCA’s water-related data. Create and maintain standards for the development, use and sharing of corporate data. Develop policies and implement tools to secure GRCA’s data and IT and communications infrastructure.
- Acquire, manage and support GRCA’s server, storage, network and personal computer infrastructure to support geographic information systems (GIS); flood forecasting and warning, including real-time data collection; database and applications development; website hosting; electronic mail; internet access; personal computing applications; and administration systems, including finance, property and human resources.
- Develop and operate a wide area network connecting 14 sites and campus style wireless point-to-multipoint networks at Head Office, Conservation Areas, Nature Centres and Flood Control Structures. Develop and operate an integrated Voice over IP Telephone network covering nine sites and 220 handsets. Support and manage mobile phones, smart phones and pagers. Develop, implement and maintain GRCA’s IS&T disaster recovery plan.
- Operate on-line campsite reservation and day-use systems with computers in 10 Conservation Areas. Provide computers and phone systems for use at outdoor education centres.
- Build and maintain working relationships with all other departments within GRCA. Develop and maintain partnerships and business relationships with all levels of government, Conservation Ontario, private industry and watershed communities with respect to information technology, information management, business solutions and data sharing.

2. VEHICLE, EQUIPMENT – MOTOR POOL CHARGES

Motor Pool charges are allocated to the individual sections based on usage of motor pool equipment. Effectively, motor pool charges are included with administrative costs or other operating expenses, as applicable, on Tables 1 to 10.

Specific Activities:

- Maintain a fleet of vehicles and equipment to support all GRCA programs.
- Purchases of new vehicles and/or equipment.
- Disposal of used equipment.
- Lease certain equipment.

SECTION B

BASE PROGRAMS – CAPITAL

SECTION B – CAPITAL BUDGET

Capital maintenance spending in 2020 includes spending in the following program areas:

- Water Resources Planning
- Flood Forecasting and Warning
- Water Control Structures
- Conservation Areas
- Corporate Services

Water Resources Planning expenditures will be for water quality monitoring equipment. Flood forecasting and warning expenditures will be for software systems and gauge equipment.

Water Control Structures major maintenance expenditures on dams and dikes.

- Brantford dyke, ice mitigation alternative EA selection of preferred alternatives. Vegetation management and design of erosion control measures.
- Bridgeport dyke, capacity, seepage and stability improvements design. Environmental assessment to select preferred capacity improvement alternative.
- Cambridge dyke, repair and resealing of floodwall construction joints.
- Caledonia dyke, design and implementation of bank erosion protection.
- Drayton dyke, development of background information for a future EA and potential federal infrastructure funding application.
- Shand Dam, design of temporary stopslogs to facilitate isolation of gates for maintenance. Implementation of gate monitoring.
- Conestogo Dam, road deck rehabilitation design, concrete repair design and gate roller rehab and maintenance on two gates.
- Guelph Dam, removal and inspection of two gates.
- Laurel Creek Dam, rehab and maintenance of gate operators.
- Luther Dam, replacement of stop logs.
- Shades Mills Dam, emergency preparedness mapping.
- Caledonia Dam, implementation of enhanced public safety measures.
- Wellesley Dam, embankment, gate and spillway detailed design of maintenance work, submissions and Lakes and Rivers approvals.
- New Dundee Dam, deck inspection and design of rehab, embankment erosion protection implementation.
- Terms of reference for Ice Management and Asset Management strategies required under the new Conservation Authorities Act.

Conservation Area capital spending includes expenditures as part of the regular maintenance program as well as spending on major repairs and new construction. In 2022, major capital projects within the Conservation Areas will include:

- New workshop at the Brant CA
- Water service upgrades at Shade's Mill CA
- Harris Mill masonry repairs a Rockwood CA

Corporate Services capital spending represents the portion of overall Information Services and Motor Pool expenses that are funded by the Information Technology (IT) and Motor Pool (MP) reserve. See "Other Information" above for spending descriptions for IT and MP.

SECTION B - Capital Budget

GRAND RIVER CONSERVATION AUTHORITY

Budget 2022

	Water Resources Planning & Environment	FFW	Flood Control Expenses	Conservation Land Management (Sch 4)	Conservation Areas	Corporate Services	BUDGET TOTAL
Expenses:							
WQ Monitoring Equipment & Instruments	110,000						110,000
Flood Forecasting Warning Hardware and Gauges		190,000					190,000
Flood Control Structures-Major Maintenance			1,500,000				1,500,000
Conservation Areas Capital Projects					1,500,000		1,500,000
Net IT/MP Capital Spending not allocated to Departments						602,000	602,000
TOTAL EXPENSE	110,000	190,000	1,500,000	-	1,500,000	602,000	3,902,000
Funding							
Prov & Federal Govt			700,000				700,000
Self Generated					900,000		900,000
Funding from Reserves	75,000	25,000	50,000		600,000	602,000	1,352,000
TOTAL FUNDING	75,000	25,000	750,000	-	1,500,000	602,000	2,952,000
Net Funded by General CAPITAL Levy	35,000	165,000	750,000	-	-	-	950,000

Budget 2021

	Water Resources Planning & Environment	FFW	Flood Control Expenses	Conservation Land Management (Sch 4)	Conservation Areas	Corporate Services	BUDGET TOTAL
Expenses:							
WQ Monitoring Equipment & Instruments	110,000						110,000
Flood Forecasting Warning Hardware and Gauges		190,000					190,000
Flood Control Structures-Major Maintenance			1,500,000				1,500,000
Conservation Areas Capital Projects					1,500,000		1,500,000
Net IT/MP Capital Spending not allocated to Departments						457,000	457,000
TOTAL EXPENSE	110,000	190,000	1,500,000	-	1,500,000	457,000	3,757,000
Funding							
Prov & Federal Govt			700,000				700,000
Self Generated							-
Funding from Reserves	75,000	25,000	50,000		1,500,000	457,000	2,107,000
TOTAL FUNDING	75,000	25,000	750,000	-	1,500,000	457,000	2,807,000
Net Funded by General CAPITAL Levy	35,000	165,000	750,000	-	-	-	950,000

ACTUAL 2020 - CAPITAL

	Water Resources Planning & Environment	FFW	Flood Control Expenses	Conservation Land Management (Sch 4)	Conservation Areas	Corporate Services	ACTUAL TOTAL
Expenses:							
WQ Monitoring Equipment & Instruments	5,932						5,932
Flood Forecasting Warning Hardware and Gauges		298,606					298,606
Flood Control Structures-Major Maintenance			1,365,239				1,365,239
Conservation Areas Capital Projects					795,020		795,020
Funding to Reserves	30,000	45,000					75,000
Net IT/MP Expenses in excess of chargebacks						(89,665)	(89,665)
TOTAL EXPENSE	35,932	343,606	1,365,239	-	795,020	(89,665)	2,450,132
Funding							
Prov & Federal Govt			585,745				585,745
Self Generated					658,020		658,020
Funding from Reserves		147,000	30,000	-	137,000	(89,665)	224,335
TOTAL FUNDING	-	147,000	615,745	-	795,020	(89,665)	1,468,100
Net Funded by General CAPITAL Levy	35,932	196,606	749,494	-	-	-	982,032

SECTION C

SPECIAL PROJECTS

SECTION C – SPECIAL PROJECTS

This category of activity represents projects that the GRCA undertakes where special one time and/or multi-year funding is applicable. The duration of these projects is typically one year although in some instances projects may extend over a number years, such as the Source Protection Planning Program. External funding is received to undertake these projects.

The main project in this category is the provincial Source Protection Planning Program under the *Clean Water Act, 2006*. Plan development work commenced in 2004, with plan implementation starting in 2015. Work includes research and studies related to the development and updates of a Drinking Water Source Protection Plan for each of the four watersheds in the Lake Erie Source Protection Region. The focus in 2022 continues on completing updates to the Grand River Source Protection Plan, including development of water quantity policies, updating water quality vulnerability assessments, and the development of the annual progress report for the Grand River Source Protection Plan.

Other special projects in the area of watershed stewardship include the “Rural Water Quality Program” grants, floodplain mapping projects, Upper Blair subwatershed study, waste water optimization project, trail development, and numerous ecological restoration projects on both GRCA lands and private lands in the watershed.

SECTION C - Special Projects Budget

GRAND RIVER CONSERVATION AUTHORITY

Budget 2022

EXPENDITURES	ACTUAL 2020	BUDGET 2021	BUDGET 2022
Subwatershed Plans - City of Kitchener	58,808	80,000	80,000
Dunnville Fishway Study	7,052	-	-
Waste Water Optimization Program	175,998	140,000	130,000
Floodplain Mapping	214,001	360,000	-
RWQP - Capital Grants	623,109	800,000	800,000
Brant/Brantford Children's Water Festival	5,583	-	-
Haldimand Children's Water Festival	5,254	-	-
Species at Risk	12,107	40,000	40,000
Ecological Restoration	25,635	100,000	100,000
AGGP-UofG Research Buffers	7,727	30,000	-
Great Lakes Agricultural Stewardship Initiative	9,381	-	-
Precision Agriculture-OMFRA	-	90,000	70,000
Great Lakes Protection Initiative	-	100,000	100,000
Trails Capital Maintenance	55,944	258,000	240,000
Emerald Ash Borer	298,063	400,000	-
Lands Mgmt - Land Purchases/Land Sale Expenses	59,047	-	-
Guelph Lake Nature Centre	54,753	-	-
Total SPECIAL Projects 'Other'	1,612,462	2,398,000	1,560,000
Source Protection Program	681,421	640,000	640,000
Total SPECIAL Projects Expenditures	2,293,883	3,038,000	2,200,000
SOURCES OF FUNDING			
Provincial Grants for Source Protection Program	681,421	640,000	640,000
OTHER GOVT FUNDING	1,034,395	1,595,000	1,220,000
SELF-GENERATED	75,352	358,000	340,000
FUNDING FROM/(TO) RESERVES	502,715	445,000	-
Total SPECIAL Funding	2,293,883	3,038,000	2,200,000

Grand River Conservation Authority

SUMMARY RESERVE REPORT - BUDGET 2022

General Meeting - January 28, 2022

	BUDGET 2021	"NET CHANGE" INCREASE/(DECREASE) 2021 VS 2022	DETAILS OF "NET CHANGE" BUDGET 2022				BUDGET 2022
			Transfer In (Interest Income)	Transfer In	Transfer Out	Description of Transfer	
Type A: GRCA Controlled							
Operating Reserves (designated)							
Property & Liability Insurance	270,383	0	0				270,383
Building & Mechanical Equipment	1,141,833	0	0				1,141,833
Small Office Equipment	7,720	0	0				7,720
Personnel	1,234,112	(15,000)	0		(15,000)	OUT- Vacation Accrual	1,219,112
Transition	860,000	10,000	10,000	0			870,000
Forestry	899,703	15,000	15,000				914,703
Information Systems and Technology	1,190,357	(108,000)	22,000	1,307,000	(1,437,000)	IN-Chargebacks; OUT-Operating/Capital costs	1,082,357
Cottage Operations	843,776	15,000	15,000				858,776
Grand River Watershed Management Plan	111,763	2,000	2,000				113,763
Planning Enforcement	451,713	8,000	8,000				459,713
Property Rental Expenses	689,789	15,000	15,000				704,789
Watershed Restoration	119,452	2,000	2,000				121,452
Master Planning	227,096	3,000	3,000				230,096
Motor Pool Equipment	1,682,024	(432,000)	40,000	1,174,000	(1,646,000)	IN-Chargebacks;OUT-Operating/Capital costs	1,250,024
Motor Pool Insurance	89,689	1,000	1,000				90,689
Capital Reserves (designated)							
Water Control Structures	3,180,003	10,000	60,000		(50,000)	OUT-Water Control Structures major repairs	3,190,003
Cambridge Desiltation Pond	5,694	(1,000)	0		(1,000)	OUT-Cambrige Desiltation Pond costs	4,694
Completion of Capital Projects	162,000	0	0				162,000
Conservation Areas-Capital	-102,000	102,000	0	102,000		IN-To adjust reserve to NIL	0
Conservation Areas-Stabilization/Capital	1,759,448	(647,000)	55,000		(702,000)	OUT-Cons Area Capital costs \$600K, AJE Cons Area Capital \$102K	1,112,448
Gauges	807,326	(85,000)	15,000		(100,000)	OUT-Gauge Expenses	722,326
Capital Reserves (undesignated)							
General Capital Reserve	1,177,059	131,500	15,000	116,500		IN-Hydro Generation Revenue	1,308,559
Total Type A: GRCA Controlled	16,808,940	(973,500)	278,000	2,699,500	(3,951,000)		15,835,440
Type B: Reserves with Outside Control							
With MNRF Interest (Capital Reserves)							
Gravel	253,198	3,000	4,000		(1,000)	OUT-Gravel Pit License	256,198
Land Sale Proceeds Reserve	7,135,688	38,500	138,500	0	(100,000)	OUT-Demolitions \$100K	7,174,188
With School Board Interest (Operating Reserves)							
App's Nature Centre	54,219	1,000	1,000				55,219
Laurel Creek Nature Centre	100,103	1,500	1,500				101,603
Guelph Lake Nature Centre	117,786	1,000	1,000				118,786
Taquanyah Nature Centre	3,795	0	0				3,795
Shade's Mills Nature Centre	58,397	1,000	1,000				59,397
Total Type B: Outside Control	7,723,186	46,000	147,000	0	(101,000)		7,769,186
TOTAL	\$24,532,126	(927,500)	\$425,000	\$2,699,500	(\$4,052,000)		\$23,604,626

Grand River Conservation Authority
Budget 2022 Timetable
January 28, 2022

- Sept 24, 2021: Draft #1 to General Meeting
- Oct/21-Feb/22: Presentations to municipal councils
- Jan 24, 2022: Official Notice to Municipalities of Budget Vote
- Jan 28, 2022: Draft #2 to General Meeting
- Feb 25, 2022: Board Approval, Final 2022 Budget & Levy

Grand River Conservation Authority

Report number: GM-01-22-01

Date: January 28, 2022

To: Members of the Grand River Conservation Authority

Subject: Cash and Investment Status – December 2021

Recommendation:

THAT Report Number GM-01-22-01 Cash and Investment Status – December 2021 be received as information.

Summary:

The cash position including Notes Receivable of the Grand River Conservation Authority as at December 31, 2021 was \$39,160,927 with outstanding cheques written in the amount of \$109,030.

Report:

See attached.

Financial Implications:

Interest rates, etc. are shown on the report.

Other Department Considerations:

Not applicable.

Prepared by:

Carol Anne Johnston
Senior Accountant

Sonja Radoja
Manager of Corporate Services

Approved by:

Karen Armstrong
Deputy CAO/Secretary Treasurer

**Grand River Conservation Authority
Cash and Investments Status Report
December 31, 2021**

BANK ACCOUNTS	Location	Type	Amount	Interest Rate
	CIBC	Current Account	15,820,722	0.65%
	RBC	Current Account	347,320	nil
	Wood Gundy	Current Account	65,912	nil
	CIBC - SPP Holding	Current Account	288,009	0.65%
	TOTAL CASH - CURRENT ACCOUNT		16,521,963	

INVESTMENTS	Date Invested	Location	Type	Amount	Face Value Interest Rate	Yield Rate	Date of Maturity	2021 Total Interest Earned/ Accrued
		CIBC Renaissance	High Interest Savings Account	119,492	0.55%	0.55%	not applicable	7,622
		One Investment Savings	High Interest Savings Account	4,327,412	0.715%	0.715%	not applicable	21,049
	October 23, 2019	Cdn Western Bank	Bond	2,010,000	2.800%	2.78%	September 6, 2024	55,625
	December 23, 2019	Laurentian Bank	Bond	3,821,000	3.450%	2.57%	June 27, 2023	99,259
	January 16, 2020	Cdn Western Bank	Bond	3,000,000	2.597%	2.45%	September 6, 2024	73,383
	September 15, 2021	Cdn Western Bank	Bond	1,500,000	2.597%	1.21%	September 6, 2024	5,509
	September 23, 2021	Province of Ontario	Bond	2,159,010	1.230%	1.23%	December 2, 2026	7,366
	September 23, 2021	ManuLife Financial	Bond	2,000,000	2.237%	1.34%	May 12, 2030	10,124
	November 3, 2021	Laurentian Bank	Bond	1,700,000	3.000%	0.96%	September 12, 2022	2,238
	December 8, 2021	Province of B.C.	Bond	2,002,050	1.180%	1.18%	December 18, 2023	1,501
		TOTAL INVESTMENTS		22,638,964				\$283,676
		TOTAL CASH AND INVESTMENTS		\$39,160,927				
		* Reserve Balance at December 31st, 2020		23,899,839				

Investment By Institution

	% of Total Portfolio
C.I.B.C.	1%
Cdn Western Bank	29%
Laurentian	24%
ManuLife Financial Bank	9%
One Investment Program	19%
Province of B.C.	9%
Province of Ontario	10%
	100%

* Reserve balances are reviewed annually by the Board in November.

Grand River Conservation Authority

Report number: GM-01-22-03

Date: January 28, 2022

To: Members of the Grand River Conservation Authority

Subject: Refuse Collection and Recycling RFP

Recommendation:

THAT the Grand River Conservation Authority retain Wasteco to provide waste collection and recycling bin services for Conservation Areas, Head Office and Nature Centers for a term of three years and an option to extend the contract for up to two additional one-year terms.

Summary:

Not applicable.

Report:

Historically, site supervisors at all twelve (12) Conservation Areas, five (5) Nature Centres, Burford Nursery, and the Administration Centre in Cambridge sought out their own refuse collection service providers, and recycling collection providers where available. Materials collected, receptacles provided, cost, agreement term and service frequency varied throughout the organization. Over the past couple of years, staff have worked to have all existing service agreements expire at or around the same time to standardize the refuse and recycling program, and ensure a transparent procurement process.

Consolidating the service into one contract service provider provides a reduction in overall expense, standardizes service throughout the organization, and eliminates duplication of work by staff at multiple locations. The GRCA did incur liquidated damages costs of \$763.83 to have several separate service agreements terminate in 2022 to allow this consolidation. The savings derived under the new contract more than offset this expense.

In previous contracts, recycling services were not available from all suppliers of waste collection and some sites were not able to offer a recycling program depending on location. This RFP required that a standardized recycling program at our Conservation Areas be implemented.

On December 3, 2021, the GRCA issued a public RFP for refuse and recycling collection services for three (3) years, with the option for an additional two (2) years if pricing and terms are mutually agreed upon by both parties. The proposed new contract will begin at various times due to some of the current contracts having different end dates in 2022.

The RFP was advertised on the Biddingo electronic procurement website with a closing date of December 17, 2021. There were 10 companies that took the RFP documents from Biddingo. Four proposals were received by the closing date and evaluated by GRCA staff on the basis of the following criteria and weighing which was documented in the RFP:

- Contractor's background and experience – 10%
- Contractor's ability to fulfill the specifications – 15%
- Representation/Customer Service – 10%
- Environmental Impact – 10%
- Completeness of Proposal – 5%
- Pricing – 50%

The estimated costs provided below are based on assumption that usage will be similar to prior years. The chart below highlights that two of the service providers did not bid on all locations and one service provider included additional fees for certain services based on use. Pricing and terms are to be mutually agreed upon for the one or two year extension.

Wasteco's submission received the highest score and provided the lowest bid that encompassed all locations. Staff recommend that the GRCA retain Wasteco to provide waste collection and recycling bin services.

	Total estimated cost for base three-years of service (*subject to visitor usage)	Ranking based on total RFP score
Wasteco (Norfolk Disposal to subcontract for 2 locations)	\$221,746.20	1
Waste Management (Norfolk Disposal to subcontract for 2 locations)	\$236,114.64 Plus additional service fees	2
Waste Connections (did not bid on all locations)	\$58,535.01	3
Norfolk Disposal (did not bid on all locations)	\$95,582.46	4

Financial Implications:

The costs associated with refuse and recycling collection are included in the annual operating budgets for Conservation Areas, Nature Centres, Head Office and the Burford Nursery.

The average annual cost from 2019 to 2021 to have all areas serviced in the GRCA was \$86,700.57 a year. If approved, the cost in 2022 of an estimated \$73,915.40 for an annual savings of \$12,785.17. Previous years expenses were obtained from unit costs listed in past agreements and information obtained through our accounting department. Future expenses are an estimate based on past usage and may vary with the expansion of our recycling program and Conservation Area usage, which can be variable based on weather, Covid-19 impacts, etc.

Other Department Considerations:

GRCA staff from Central Services, Conservation Areas and Nature Centres and Corporate Services were involved in the preparation of the RFP and scoring of the proposals.

Prepared by:

Pam Walther-Mabee
Manager of Conservation Areas

Brian J. Hunt
Superintendent of Conestogo Lake CA

David Townsend
Superintendent of Rockwood CA

Approved by:

Karen Armstrong
Deputy CAO, Secretary-Treasurer

Grand River Conservation Authority

Report number: GM-01-22-02

Date: January 28, 2022

To: Members of the Grand River Conservation Authority

Subject: Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation

Recommendation:

THAT Report Number GM-01-22-02 – Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation be received as information.

Summary:

To provide the General Membership of the Grand River Conservation Authority with a quarterly summary of permits approved and issued by staff which conform to current Grand River Conservation Authority policies for the Administration of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation Ontario Regulation 150/06.

Report:

Permit Report October, November and December 2021

Municipality	Total
City of Brantford	9
City of Cambridge	16
City of Guelph	6
City of Hamilton	6
City of Kitchener	12
City of Waterloo	6
County of Brant	30
Haldimand County	24
Town of Erin	5
Town of Grand Valley	1
Town of Milton	3
Township of Amaranth	3
Township of Blandford-Blenheim	3
Township of Centre Wellington	17
Township of Guelph/Eramosa	11

Municipality	Total
Township of Mapleton	5
Township of Melancthon	2
Township of North Dumfries	9
Township of Perth East	3
Township of Puslinch	12
Township of Southgate	3
Township of Wellesley	13
Township of Wellington North	1
Township of Wilmot	8
Township of Woolwich	13
Total Permits	221

Financial Implications:

Not Applicable.

Other Department Considerations:

Not Applicable.

Prepared by:

Melissa Larion
Supervisor of Resource Planning

Approved by:

Nancy Davy
Director of Resource Management

Grand River Conservation Authority

Report number: GM-01-22-08

Date: January 28, 2022

To: Members of the Grand River Conservation Authority

Subject: Speed River Hydraulic Model Development Contract Award – Stantec Consulting Ltd.

Recommendation:

THAT the Grand River Conservation Authority accept the bid from Stantec Consulting Ltd. to carry out the Speed River Hydraulic Model Development at a cost of \$123,439 (excluding HST);

AND THAT a contingency of 10% be included in the overall project budget for a total project budget of \$135,769 (excluding HST).

Summary:

The GRCA has received funding support from the federally managed National Disaster Mitigation Program (NDMP) to undertake a Hydraulic Model Development for the Speed River (the Project). This Project involves development of a hydraulic modeling and floodplain mapping for the main branch of the Speed River from downstream of the Guelph Dam to the confluence with the Grand River.

Staff developed a Request for Proposals (RFP) for the Project and posted on the Biddingo government contract portal. A total of 22 firms picked up the bid documents, with 5 proposals received.

The proposals were evaluated using weighted criteria including: Company and Project Team Qualifications and Relevant Experience, Project Understanding, Approach and methods, Schedule and Work Plan, and Cost and Value.

Project schedule was an important consideration when reviewing proposals; the project is funded as part of the National Disaster Mitigation Program (NDMP) with an anticipated end date of March 31st 2022 although there is possibility of extension of this dateline as a result of COVID-19 delays.

The proposal by Stantec Consulting Ltd. at a cost \$123,439 is recommended to carry out this project.

Report:

Further to GM-12-20-91, applications were made to Intake 6 of the NDMP program. The GRCA received approval to complete projects involving the updating of hydraulic models and associated Regulatory floodplain mapping on portions of two major watercourses, namely the Speed and Conestogo Rivers. A Bilateral Contribution Agreement (BCA) between the federal and provincial governments was entered into on June 28th, 2021. A Transfer Payment Agreement (TPA) between the province and the GRCA was signed by GRCA on October 27th, 2021. Development of base mapping and field survey work has been ongoing since mid-October 2021. Staff are undertaking the Conestogo River model and mapping internally, but have opted to retain professional engineering consulting services to undertake the model development component of the Speed River system.

The current hydraulic models for the Study Area were developed in the early 1990's, through the *Speed and Eramosa River Floodline Mapping Study* (Paragon Engineering, now Stantec

Consulting Ltd.). Over the ensuing 30 years, sections of the model have been refined in support of various private and public works, however the majority of the available modelling is reflective of the base mapping and status of stream and hydraulic structures as they were in early 1990s.

The Project involves the use of the US Army Corps of Engineers' HEC-RAS software to create/update a model for the main branch of the Speed River from the Guelph Dam to the confluence with the Grand River. The Study Area includes approximately 35 km of the Speed River, passing through the Township of Guelph-Eramosa, City of Guelph, Township of Puslinch, and the City of Cambridge. Updated floodplain mapping will be produced for this 35 km reach of the Speed River.

This reach of the Speed River contains a total of 53 hydraulic structures including 24 road crossings, 4 railroad crossings, 8 private crossings and 17 water control structures. On top of the complexities represented by this many structures, there are multiple areas where complex flow dynamics and/or potential land use / development sensitivities dictate a more rigorous approach known as two-dimensional modeling. Two-dimensional models will be produced for the City of Guelph in the area of the Speed River / Eramosa River confluence, in the Township of Guelph/Eramosa just downstream of the Hanlon Parkway, and in the City of Cambridge in the area of Riverside Dam. The two dimensional modeling produces a higher level of detail and allows for additional analysis to support planning policies in the City of Guelph Special Policy area and in the City of Cambridge two-zone area.

The primary components of the Study include:

- Review of background information,
- Develop a one-dimensional hydraulic model,
- Model calibration and validation,
- Update of the one-dimensional model to a two-dimensional assessment in three areas,
- Complete modeling and develop update flood lines mapping,
- Documentation and final report preparation

Staff developed a Request for Proposals (RFP) for the Project and posted on the Biddingo government contract portal. A total of 22 firms picked up the bid documents, with 5 proposals received.

A committee consisting of the Director of Engineering, the Senior Water Resource Engineer, and the Project Manager participated in the proposal evaluations. The proposals were evaluated using weighted criteria including: Company and Project Team Qualifications and Relevant Experience, Project Understanding, Approach and methods, Schedule and Work Plan, and Cost and Value.

The ranked order of the evaluation and proposal costs (excl. HST) are as follows:

1. Stantec Consulting Ltd. - \$123,439
2. Wood Canada Ltd. - \$73,091
3. Water's Edge Environmental Solutions Team - \$38,780
4. WSP Canada Inc. - \$61,507
5. Hatch - \$158,800

There was significant variability in the estimated level of effort to conduct this project identified by consultants in their proposals, which resulted in significant differences in the proposal costs. Through the RFP evaluation process, based on GRCA staff's professional experience and technical expertise, the consultants' direct previous experience with projects of similar scale and scope and complexity had a large impact in the overall scoring and subsequent ranking.

Stantec's proposal received the highest ranking in the evaluation and is recommended as the preferred consultant to carry out the Project. Strengths of the proposal and consultant include:

- Relevant recent similar projects carried out with similar levels of scope and complexity for major urban centers in the watershed,
- Project team with considerable local and national experience on project aspects and sufficient depth to improve efficiencies and overcome any potential staffing issues (e.g., COVID),
- Strong, well-considered proposal which included excellent detail and insight into project approach and methodology, full understanding of project scope,
- Proposal detail regarding development of two-dimensional unsteady assessment of several spill areas of interest identified by GRCA staff,
- Strong project management capability demonstrated on past GRCA and other CA projects
- Accurate and appropriate estimation of the effort required to conduct the project, estimate of effort was consistent with expected effort estimate by staff,
- Costs met project budget and includes managed balance of senior staff,
- Demonstrated ability to work with GRCA staff.

The selection made by the committee represents its opinion at the current time for the recommended consultant providing the best overall value and approach to the project and ability to carry out the work.

The overall budget for the project is recommended to include consultant fees plus 10% contingency of \$12,300 to be applied for potential additional work such as meetings, additional analysis, or other incidentals that may be incurred. The overall recommended project budget is \$135,769 (excluding HST).

Financial Implications:

The project is being carried out with funding from the federal NDMP program. Per the program's funding agreement, the Federal and GRCA contributions are 50% each. The GRCA's portion of the project cost will be funded with the land sale proceeds reserve and will be included in the 2022 budget. This federal grant is part of a one-year program currently anticipated to end on March 31, 2022, though it is noted that COVID-related extensions have been granted to the last two program intakes.

This specific grant application, included both the Conestogo and Speed River updates, and identified a \$375,000 project cost, of which the Speed River portion was estimated at \$200,000. Hence, even considering staff time and other smaller contracts already underway for elements such as field surveys, it is anticipated that the project cost will come in under the approved funding amount.

Other Department Considerations:

Corporate Services staff were consulted

Prepared by:

Vahid Taleban, M.Sc., P.Eng.
Water Resources Engineer

Scott Roberson, P.Eng.
Senior Water Resources Engineer

Approved by:

Dwight Boyd, P.Eng.
Director of Engineering

Grand River Conservation Authority

Report number: GM-01-22-07

Date: January 28, 2021

To: Members of the Grand River Conservation Authority

Subject: Current Watershed Conditions as of January 19, 2022

Recommendation:

THAT Report Number GM-01-22-07 – Current Watershed Conditions as of January 19, 2022 be received as information.

Summary:

January to date has been cold and snowy. The average air temperature was approximately 1.5 degrees below the long term average. More snow than rain has been recorded including a snow storm on January 17th, which delivered between 15 and 30cm of snow across the watershed. In contrast, December was warm and wet. The average air temperature was nearly 3 degrees above the long term average and much more rain fell than snow.

Reservoir levels are within the normal range for this time of the year and are decreasing slowly. Cold weather has reduced inflows to the reservoirs, while discharges are reduced to stabilize water levels. The smaller reservoirs are all at their winter holding levels.

Lake Erie continues above the long term average and slightly below the level at this time last year. Levels are forecast to decrease in February before increasing again in March. Ice is developing on Lake Erie, but coverage is limited. The long term forecast is for above normal temperature and precipitation over the winter months.

Report:

Precipitation

December was an average month for precipitation with the watershed receiving between 102 and 124 percent of the long term average. The Shand climate station recorded the most precipitation with almost 92mm. Approximately 70 percent of the precipitation was rain and the remainder was snow. The Brantford Airport climate station recorded the least precipitation with approximately 60mm.

Precipitation up to January 19 has been variable across the watershed. With the exception of the Conestogo climate station, most sites are close to the long term average shown in Table 1. Recorded precipitation is predominately snow with very little rain observed. The January 16 to 17 snow storm delivered between 15 and 30cm of snow with higher amounts in the south and near Waterloo. The three total precipitation gauges in the watershed showed that the snow from this event had a water content of approximately 10 percent meaning that the snow was fairly light.

The last snow survey was conducted on January 14th, before the snow storm. If the snow from the snow storm was added to the snow survey results, the snowpack would have normal to above normal water content. The next snow survey is scheduled for February 1st. The snow survey is conducted every two weeks from November 15th to May 15th at set locations throughout the watershed to measure the amount and condition of the snow on the ground. The results inform reservoir operations and flood forecasting.

Table 1: Current monthly precipitation for climate stations across the watershed up to January 19, 2022 including the long term average precipitation for half of January.

Climate Station	Current Month Precipitation (mm)	Long Term Average Precipitation (mm)	Percentage of Long Term Average (%)
Shand	35.8	36.5	98%
Conestogo	25.9	42.8	61%
Guelph	37.2	34.8	107%
Luther	34.7	40.4	86%
Woolwich	44.5	34.7	128%
Laurel	47.3	37.7	126%
Shades	30.4	34.9	87%
Brantford	25.6	27.2	94%

Precipitation trends over the last 18 months are variable due to the very dry winter and spring last year which was followed by a wet fall. Over the past six months, all of the climate stations recorded values well above the long term average, while over the last 12 months some sites were below the long term average, shown in Table 2. A visual representation of these trends for the Shand climate station is also given in Figure 1.

Table 2: Precipitation trends as a percentage of the long term average over the last 18 months

Climate Station	Last Month	Last 3 Months	Last 6 Months	Last 12 Months	Last 18 Months
Shand	124%	101%	111%	93%	95%
Conestogo	102%	89%	111%	95%	92%
Guelph	102%	108%	124%	107%	109%
Luther	111%	100%	118%	100%	103%
Woolwich	103%	85%	100%	85%	87%
Laurel	107%	100%	131%	107%	100%
Shades	104%	109%	133%	116%	107%
Brantford	103%	129%	125%	107%	98%

Air Temperatures

Fluctuating patterns in temperature continued into January. December was a very warm month with an average monthly temperature of almost 3 degrees above the long term average. In contrast, temperatures during the first 3 weeks of 2022 were well below the long term average. Across the watershed the average monthly temperature was 1.5 degrees below the long term average.

At the Shand Dam climate station, the average monthly temperature is 2 degrees below the long term average. Very cold periods with daily minimum temperatures below minus 20, have alternated with days with high temperatures above zero.

A visual representation of these trends for the Shand climate station is given in Figure 2.

Lake Erie Water Levels

During December, the average lake level was approximately 0.63m above the long-term average, which was approximately 0.09m below the same month in 2020. In the first half of January, the average lake level was approximately 174.63m which is about 0.64m above the long-term average.

The long range forecast for Lake Erie, Figure 3, is for the lake level to decrease in February before increasing again in March. Lake levels are expected to be similar to last year. Some ice is starting to form on the Lake, but much of the Lake Erie is not ice covered. A High Lake Level Conditions Statements remains in effect.

Reservoir Conditions

The large reservoirs are at normal levels for this time of the year. Conestogo, Shand and Guelph reservoirs are decreasing slowly due to low inflows with the cold weather. Luther is stable at the normal winter level. The smaller reservoirs are all at their winter holding levels.

Reservoirs will be used to manage flows during melt or rain events over the next couple of months. Spring filling of the reservoirs normally starts in late February or early March. Year to date reservoir levels and operating rule curves are shown in Figures 4 and 5 for the four largest reservoirs

Long Range Forecast

Environment and Climate Change Canada is forecasting above normal temperatures and precipitation for the January to March period. Additional seasonal forecasts were not available in time to be included in this report.

Flood Preparedness

Conditions are being monitored closely. Staff continue to hold weekly meetings as part of overall succession planning initiatives, dam operations and flood emergency preparedness.

GRCA staff participated in an emergency planning meeting with Brant County, City of Brantford and Six Nations emergency management staff on January 19th. The meeting was arranged by the County of Brant Community Emergency Management Coordinator (CEMC). Emergency management initiatives and coordination was discussed. GRCA staff delivered a presentation explaining ice jam events through the Paris Brantford reach and provided an updated on current ice conditions. Both the County of Brant and City of Brantford have updated their flood emergency plans, these updated plans are being taken to their respective councils.

The next pre-spring meeting with municipal flood coordinators and agencies involved with the Grand River Flood Warning System is scheduled for February 16th.

Financial Implications:

Not applicable

Other Department Considerations:

Not applicable

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Figures:

Figure 1: Shand Dam Monthly Precipitation 2018 to January 19, 2022

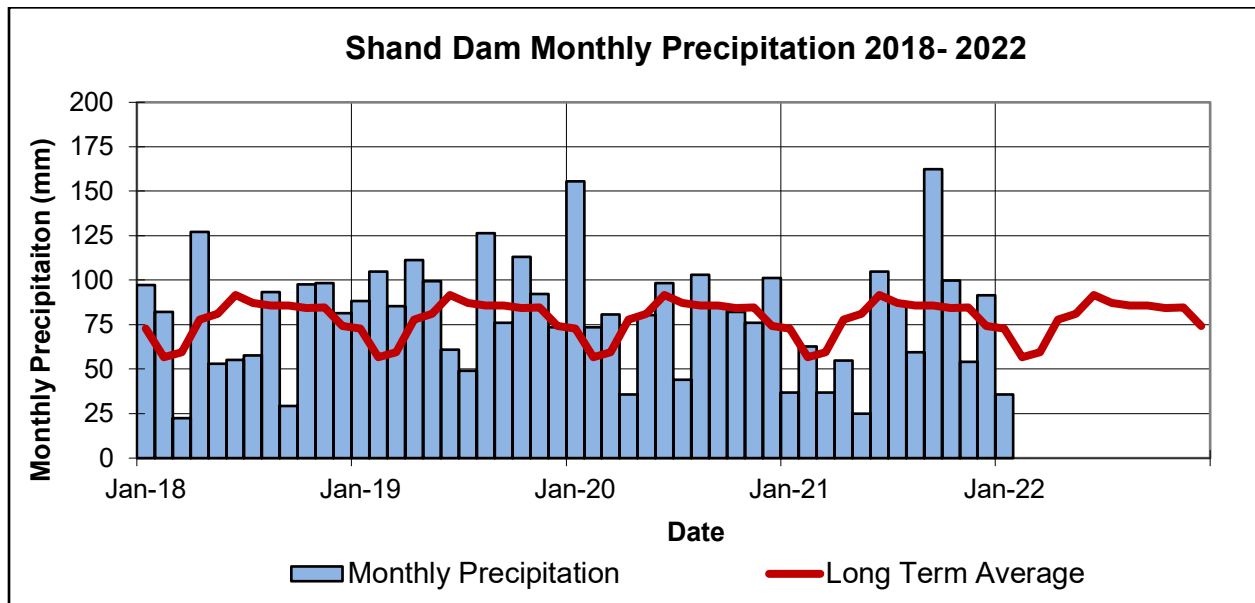


Figure 2: Monthly Average Air Temperatures at Shand Dam from 2018 to January 19, 2021

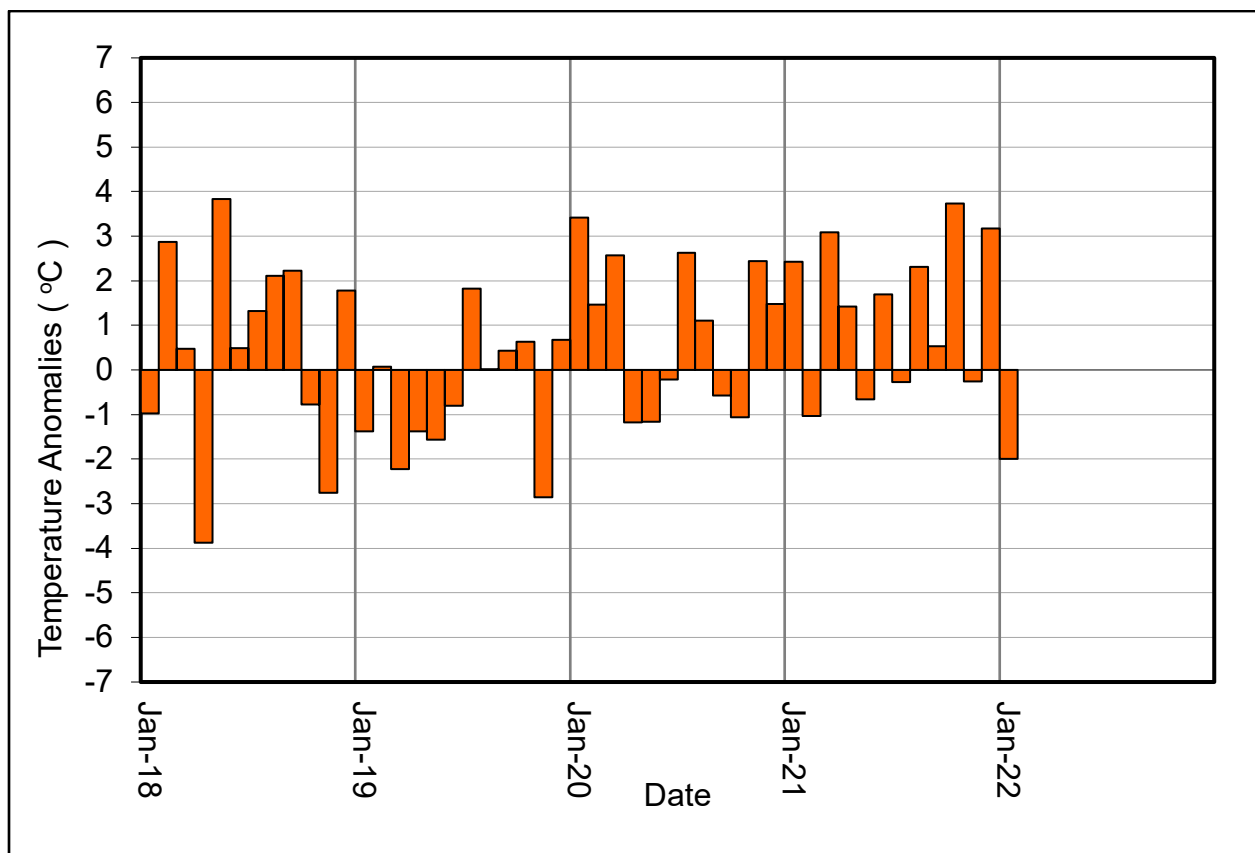


Figure 3: Water levels for Lake Erie at Port Colborne

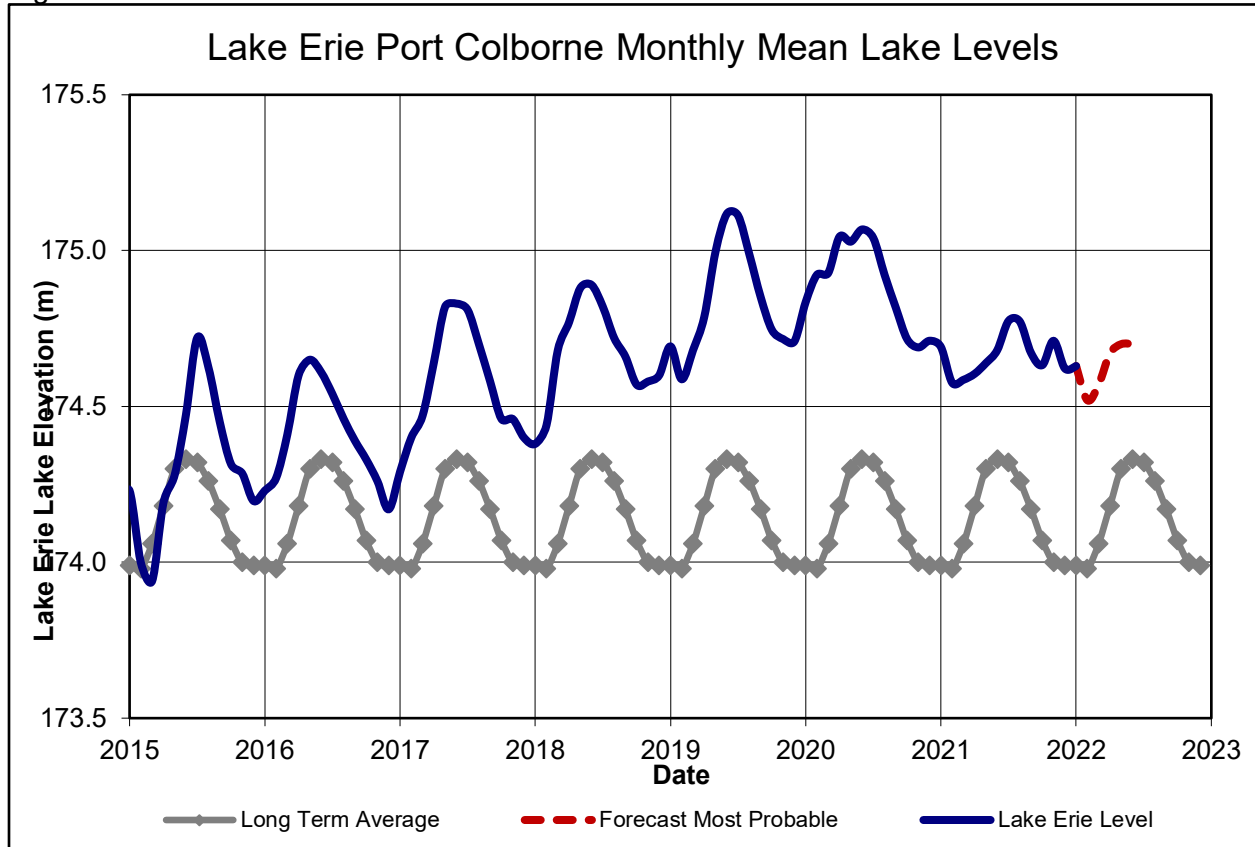


Figure 4: Shand and Conestogo Reservoir Elevation Plots for 2022

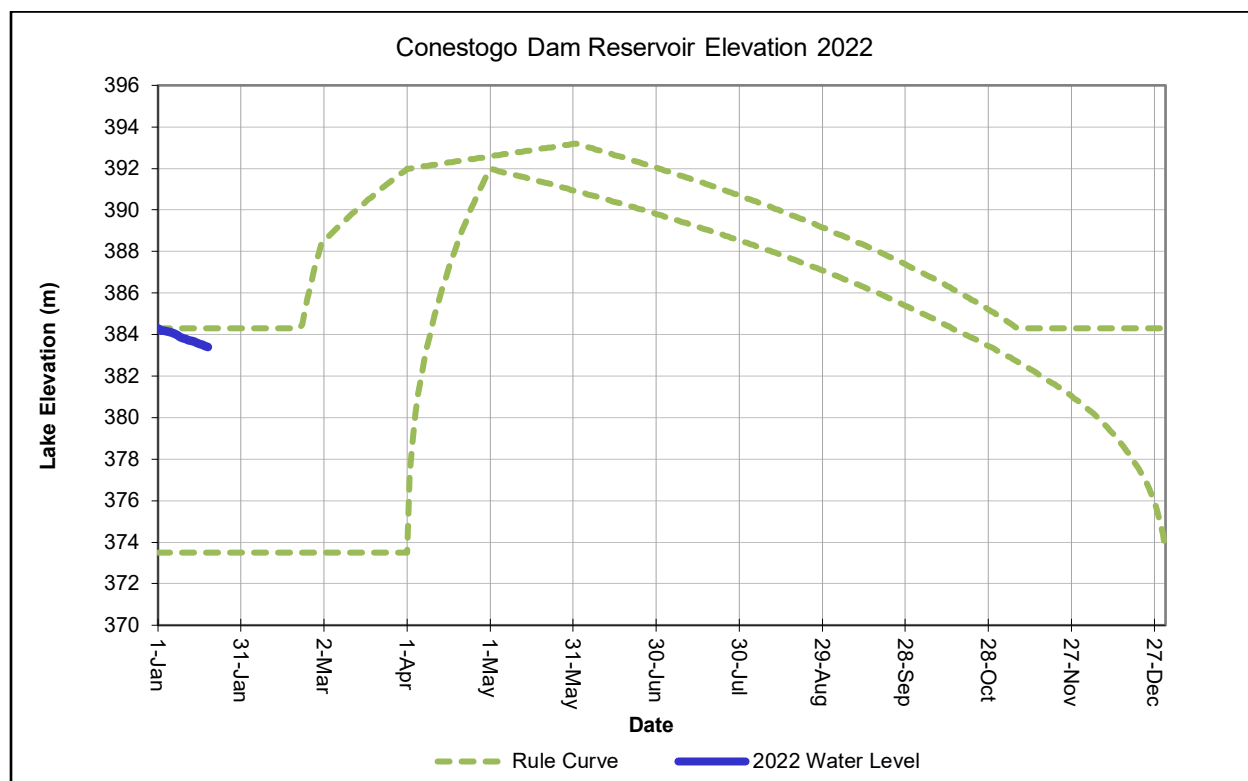
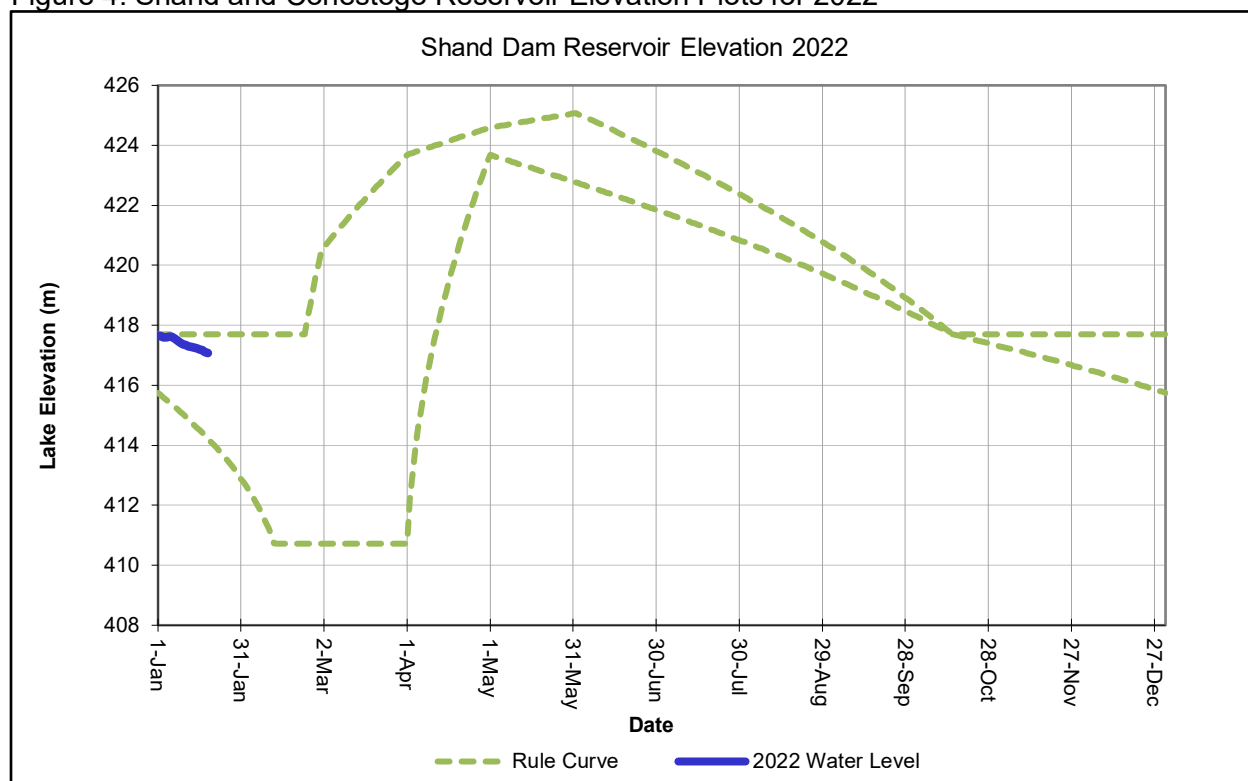


Figure 5: Guelph and Luther Reservoir Elevation Charts for 2021

