



## **TOWNSHIP OF MELANCTHON ELECTRONIC MEETING THURSDAY, MARCH 18, 2021 - 5:00 P.M.**

Join Zoom Meeting

<https://us02web.zoom.us/j/89059325494?pwd=dJZlL1I4eUJTUVNoWEI6MkFxaXdJUT09>

Meeting ID: 890 5932 5494

Passcode: 774834

One tap mobile

+15873281099,,89059325494#,,,,\*774834# Canada

+16473744685,,89059325494#,,,,\*774834# Canada

Dial by your location

+1 587 328 1099 Canada

+1 647 374 4685 Canada

+1 647 558 0588 Canada

+1 778 907 2071 Canada

+1 204 272 7920 Canada

+1 438 809 7799 Canada

Meeting ID: 890 5932 5494

Passcode: 774834

### **AGENDA**

- 1. Call to Order**
- 2. Announcements**
- 3. Additions/Deletions/Approval of Agenda**
- 4. Declaration of Pecuniary Interest and the General Nature Thereof**
- 5. Approval of Draft Minutes – March 4, 2021**
- 6. Business Arising from Minutes**
- 7. Point of Privilege or Personal Privilege**
- 8. Public Question Period** (Please visit our website under Agendas and Minutes for information on Public Question Period)
- 9. Public Works**
  1. Memo from Denise Holmes, CAO/Clerk regarding Southgate & Melancthon Boundary Agreement
  2. Report from Kaitlin Chessell, Roads Sub-Committee Secretary, regarding Dust Control Quotation
  3. Other
- 10. Planning**
  1. Applications to Permit

2. Unfinished Business
  1. Unnamed Lane in Corbetton – Discussion - Location of lane
3. Other

#### **11. Climate Change Initiatives**

#### **12. Police Services Board**

#### **13. County Council Update**

#### **14. Correspondence**

##### **Board & Committee Minutes**

1. CDRC – January 27, 2021
2. NDCC – January 13, 2021
3. NDCC – February 11, 2021

##### **Items for Information Purposes**

1. NVCA Media Release – 2020 Annual Report
2. Email from Tom Pridham, RJ Burnside, Drainage Engineer, Petition for Drainage Works on Part Lot 17, Concession 6 SW
3. Email from Eowyn Spencer, Executive Assistant, GRCA regarding 2021 Budget and 2020 Audited Statements posted on their website
4. Letter from Ministry of Municipal Affairs and Housing regarding 2021 COVID-19 Recovery Funding for Municipalities Program
5. NVCA Media Release regarding Maple Syrup Production
6. Canada Healthy Communities Initiative Funding
7. Email from Ralph Snyder, Fire Chief, Shelburne District Fire Department regarding Fire Marshal Communique
8. Letter from Laura Ryan, Town of Mono Mayor regarding Highway Traffic Act Set Fines and Automated Speed Enforcement
9. 2020 Groundwater Monitoring Report for Strada Aggregates Shelburne Pits
10. County of Dufferin - 2020 Building Permit Report

##### **Items for Council Action**

1. CDRC 2021 Budget
2. NDCC 2021 Budget Draft #1

#### **15. General Business**

1. Notice of Intent to Pass By-law
  1. By-law to adopt the estimates of all sums required during the year and to strike the rates of taxation
  2. By-law to authorize the Execution of a Tax Arrears Extension Agreement
2. New/Other Business/Additions
  1. Sylvia Jones, MPP, List of Agenda Topics 2020/2021
  2. Other
3. Unfinished Business
  1. Mulmur Melancthon Recreation Sub-Committee – Appointment of Two Council Members to sit on the Sub-Committee (**Note – The first meeting has been scheduled for March 24, 2021 – 1:00 p.m.**)
  2. NDCC Motion from the November 10, 2020 NDCC BOM Meeting – Recommendation that the Townships reach a consensus moving forward (**The Motion is not in this package as this matter was deferred until after the MM Recreation Sub-Committee meets**).

3. County of Dufferin and Member Municipalities Service Delivery Review Part A – Final Recommendations
4. Creation of a motion from Melancthon Council regarding Fire Services Operations (once SDR Recommendations received)

**16. Delegations**

1. 7:00 p.m. – Council Vacancy – Meet the Candidates and Questions from Council to the Candidates

**17. Closed Session**

1. Approval of Draft Minutes – March 4, 2021
2. Business Arising from Minutes
3. Litigation or potential litigation, including matters before administrative Tribunal affecting the local board – Property Standards Matter – Discussion on Legal Counsel
4. Rise With or Without Report from Closed Session

**18. Third Reading of By-laws**

**19. Notice of Motion**

**20. Confirmation By-law**

**21. Adjournment and Date of Next Meeting** – Thursday April 1, 2021 – 9:00 a.m.

**22. On Sites**

**23. Correspondence on File at the Clerk's Office**



*The Corporation of*

**THE TOWNSHIP OF MELANCTHON**

157101 Highway 10, Melancthon, Ontario, L9V 2E6

Telephone - (519) 925-5525

Fax No. - (519) 925-1110

Website: [www.melancthontownship.ca](http://www.melancthontownship.ca)

Email: [info@melancthontownship.ca](mailto:info@melancthontownship.ca)

**MEMORANDUM**

**TO: MAYOR WHITE AND MEMBERS OF COUNCIL**

**FROM: DENISE B. HOLMES, AMCT, CAO/CLERK**

**SUBJECT: SOUTHGATE & MELANCTHON BOUNDARY AGREEMENT**

**DATE: MARCH 11, 2021**

At the meeting on February 4, 2021, Council directed that the draft Boundary Agreement be forwarded for review by the Township's lawyer and Township's Insurance. Attached to this Memo are the comments received.

Please advise how you wish Staff to proceed.

PW # 9.1  
MAR 18 2021



## Denise Holmes

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**From:** Karen Buck <[kbuck@watlaw.com](mailto:kbuck@watlaw.com)>  
**Sent:** Monday, March 1, 2021 12:12 PM  
**To:** Denise Holmes  
**Subject:** Road Boundary Contract - File 40901  
**Attachments:** client 01 (email), March 1, 2021.pdf

Please see the attached correspondence from Mr. Oldfield dated March 1, 2021.

Karen Buck  
Litigation Clerk to G. Edward Oldfield  
Oldfield, Greaves, D'Agostino, Scriven  
Professional Corporation  
172 King Street South  
Waterloo, ON N2J 1P8

[kbuck@watlaw.com](mailto:kbuck@watlaw.com)  
(519) 576-7200 x125  
(519) 576-0131 (fax)

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# *Oldfield, Greaves, D'Agostino, Scriven*

PROFESSIONAL CORPORATION

Barristers and Solicitors

G. Edward Oldfield  
Lawrence K. Greaves  
Edward L. D'Agostino  
Robert W. Scriven  
Bryan M. Sansom

172 King Street South  
Waterloo, ON N2J 1P8  
Tel: 519-576-7200  
Fax: 519-576-0131  
Email: [toldfield@wallaw.com](mailto:toldfield@wallaw.com)

March 1, 2021

VIA EMAIL [dholmes@melanctontownship.ca](mailto:dholmes@melanctontownship.ca)

Township of Melancthon  
157101 Hwy 10  
Melancthon, ON L9V 2E6

**ATTENTION:** Denise Holmes

Dear Ms. Holmes:

**RE: Road Boundary Contract**  
**Our File 40901**

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Thank you for your email of February 24 and the enclosed Boundary Contracts. I have had an opportunity to review the documents and am writing at this time to outline my views regarding the draft 2021 version of the Boundary Road Agreement.

## LEGISLATIVE AUTHORITY

Sections 28 and 29 of the *Municipal Act* create jurisdiction over roadways. Where a roadway divides two local Municipalities, then the local Municipalities on either side of a boundary line have joint jurisdiction over the roadways forming that boundary line.

Section 29.1 of the *Municipal Act* recognizes situations in which Municipalities enter into Agreements to maintain part of any joint jurisdiction boundary line highway. In particular, section 29.1(2) states:

If municipalities enter into an agreement under subsection (1), each municipality has jurisdiction over that part of the highway that it has agreed to keep and repair and is liable for any damages that arise from failure to keep the highway in repair and the other municipality is relieved from all liability in respect of the repair of that part.

## DRAFT 2021 AGREEMENT

My comments with specific areas of the proposed Agreement are as follows:

1. The Agreement is referenced at the top of the first page as:

Schedule "A" to by-law 2021

I therefore assume that there is a by-law which governs the Municipal decision to undertake the contract.

2. Termination Clause

The prior Agreement was for a period of ten years and therefore it will mature on December 20, 2022. Either Municipality was given an opt out agreement on one year of notice at paragraph 5 of the old Agreement.

The new Agreement is for a fixed five year term with renewal by further by-law by both parties.

The length of the contract is a matter of convenience for the Councils and staff as to whether it is desirable to have a contract of a shorter period of time or a longer period of time. I do not see an explanation as to why the draft contract submitted to you has a reduced term and I suggest that the administrative management of the contract is something that Council may wish to consider when deciding whether it is appropriate to agree to the reduced length of the contract or whether it would be appropriate to suggest that the contract should again be for a ten year term.

3. Insurance

The major difference between the two contracts is that substantial insurance obligations have been added in the new draft and I have concern about the wording of the new clause.

As I noted previously in this report, Section 29.1(2) states that if Municipalities enter into an Agreement, the party that has undertaken the obligation to repair a particular area of road is liable for any damages that arise from failure to keep the roadway in repair and the other Municipality "is relieved of all liability in respect of the repair of that part". In other words, even if the contract between the Municipalities is silent about insurance and responsibility for lack of repair, neither Municipality has responsibility for the negligence of the other in the event that a road is not kept in a proper state of repair.

Section 4 of the former contract and section 4 of the new contract create indemnification with regard to lack of repair and appear to apply the standard created by section 29.1(2) of the *Municipal Act*.

I note that Section 29.2 of the *Municipal Act* and Section 4 of the old draft contract reference the work "repair" as opposed to specifically referring to maintenance. Regulation 239/02 made under the *Municipal Act* prescribes the minimum maintenance standards for Municipal highways. Perhaps the individual inserting the additional insurance clauses had concern that the existing paragraph 4 was not broad

enough to cover a lack of maintenance to the designated standards. Out of an abundance of caution, I would agree that it does make sense to outline the insurance requirements within the Boundary Agreement so that there is an absolute certainty that the Municipalities are maintaining coverage to deal with potential liability events on the boundary roads. However, assuming that Council sees fit to proceed on this basis, there are issues with the draft wording that need to be addressed. It appears to me that someone has taken the liability section of a corporate road maintenance contract and inserted it into this Agreement without considering some of the language and issues that would be relevant to a Municipal Agreement. In particular:

- (a) The new draft at one point references the "Corporation" and on several occasions references the "Company". Both Municipalities are of course Corporations, but the words "Corporation" and "Company" are not defined within the new contract and I suspect that someone has taken commercial indemnity wording and not realized that reference to a Corporation needs to be removed if the contract is between Municipalities.
- (b) Subsection (c) references a ROW. I assume that means "right of way" and my suspicion is that this wording has been taken from some other agreement in which a contractor is undertaking work on a road or a right of way for a Municipality. It appears to have no relevance to the current situation.
- (c) Similarly, subsection (c) references "business interruption insurance". Business interruption insurance has no relevance to an Agreement between two Municipalities for road maintenance.
- (d) Section (d) states that the "Township" can make other demands, "acting reasonably". The word "Township" is not defined in the Agreement. Both Melancthon and Southgate are Townships but it does not seem reasonable that they would be in a position to demand extra insurance from the other. Once again, it appears that the wording has been taken from a Municipality/Contractor Agreement without consideration of the impact of the language.
- (e) The Indemnity heading references "ROW" and the "location of Plant or the installation thereof by the either Party" (I assume the word "either" is meant to be "other") and reference is again made to the "Company's" negligence. While each Municipality may legitimately require a level of comfort with regard to the insurance held by the other Municipality, the indemnity added to the draft contract is inappropriate for a contract between two Municipalities.
- (f) The Indemnity clause of the new contract at page 4 also makes reference to environmental liabilities "relating to its use of the ROW". While there is undoubtedly potential environmental risk created by the use of road equipment or materials used to create road surfaces, the language of the Agreement between the Municipalities needs to reflect the intended Agreement.

- (g) In the event that the Municipalities determine that they wish to have insurance responsibilities outlined explicitly within their contract, then I suggest that it would be appropriate to have the draft wording cleaned up and then reviewed by the insurers of both Municipalities before the Agreement is signed. There is logic in making sure that only one Municipal policy has to respond to any particular incident on a boundary road as opposed to having two insurers involved on behalf of the Municipalities with one insurer simply referencing the contract as a defence.

### SUMMARY

Melancthon and Southgate may determine that it is appropriate to explicitly outline insurance obligations within their contract. However, if that is the wish of the Municipalities, then someone needs to clean up the language in the draft Agreement and create wording which reflects the reality of a Boundary Road Contract between two Municipalities. From there, it would be appropriate for Melancthon and Southgate to have the contract reviewed and approved by their insurers before the contract is executed.

If you have any questions or concerns after reviewing this report, please feel free to contact me.

Yours very truly,



G. Edward Oldfield

GEO:kb

## Denise Holmes

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**From:** Heather Hill <HHill@insurancestore.ca>  
**Sent:** Wednesday, February 10, 2021 12:32 PM  
**To:** Denise Holmes  
**Subject:** FW: Southgate- Melancthon Boundary Road Agreement  
**Attachments:** Melancthon Road Boundary Agreement .docx; 0739\_001.pdf

Hello Denise,

Please see below:

### **Review of Boundary Road Agreement**

The intent of the agreement appears to be reciprocal however we note that only Southgate is requested to be added as an additional insured. We feel the requirement should be for both parties to add the other as an A.I to their policies. The indemnification clauses should be reciprocal, as in both parties agreeing to indemnify the other for their own negligence. We also recommend the require to carry "Commercial General Liability" be changed to "Municipal Liability" insurance.

### **Indemnity**

This indemnity seems like it was copied from another agreement and doesn't make sense. It refers to a Company, a ROW (right-of-way), a Plant and construction liens which do not seem related to this agreement. We would recommend the Township have this reviewed and re-drafted by their solicitor.

With regard to indemnification in boundary road agreements, Section 29.1 of the *Municipal Act, 2001* provides:

29.1(1) Agreement – If municipalities having joint jurisdiction over a boundary line highway enter into an agreement under which each municipality agrees to keep any part of the highway in repair for its whole width and to indemnify the other municipality from any loss or damage arising from the lack of repair for that part, the agreement and a copy of the by-law authorizing the agreement

may be registered in the proper land registry office for the area in which the highway is located.

(2) Effect – If municipalities enter into an agreement under subsection (1), each municipality has jurisdiction over that part of the highway that it has agreed to keep in repair and is liable for any damages that arise from failure to keep the highway in repair and the other municipality is relieved from all liability in respect of the repair of that part.

All the best!

Heather Hill, BA, FCIP, CRM, CAIB, AIPC

Farm and Commercial Insurance Specialist

T: 705 737 5160

1-833-745-0299

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Noble, St Clair and Jamieson-Hilts are now part of the insurance store family. We have a new look and a new name to go along with the great service you deserve.



*For your own protection, coverage or extensions to coverage requested by email, voice-mail or facsimile transmission should not be considered bound, unless written confirmation is received from a representative of*

*Insurance Store Inc. Also, any claims reported by email or voice-mail should not be relied upon, and if verification of receipt is required, please speak directly to an Insurance Store representative.*

**COVID 19** *Due to provincial regulations, all of our offices are all currently closed to the public and the majority of our staff is working remotely. Please contact us by email or telephone if you require further information. We remain committed to the highest levels of customer service that you have come to expect.*



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**THE TOWNSHIP OF MELANCTHON**  
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## **CORPORATION OF THE TOWNSHIP OF MELANCTHON**

### **MEMORANDUM**

**TO: MAYOR WHITE AND MEMBERS OF COUNCIL**

**FROM: KAITLIN CHESSELL, SECRETARY ROADS SUB-COMMITTEE**

**SUBJECT: RECOMMENDATIONS FROM ROADS SUB-COMMITTEE MEETING  
MARCH 10, 2021**

**DATE: MARCH 12, 2021**

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#### **7.3 General Business; Dust Control Quotation from Da-Lee Group**

Craig Micks, Public Works Superintendent advised that he was good with accepting the quote from Da-lee. The price increase was approximately 1 cent per litre and the cost difference would be approximately an additional \$5000 if we order the same amount of calcium as in 2020.

#### **Recommendation:**

The Roads Sub-Committee recommends to Council that we accept the quotation from Da-Lee Group for Calcium.

*PW #19.2*

MAR 18 2021



## Denise Holmes

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**From:** Roads  
**Sent:** Thursday, January 28, 2021 3:10 PM  
**To:** Denise Holmes  
**Subject:** Fwd: Dust Control Quotation  
**Attachments:** 0203\_210128134934\_001.pdf

Sent from my iPhone

Begin forwarded message:

**From:** Rick Behnish <rick@daleegroup.com>  
**Date:** January 28, 2021 at 1:54:24 PM EST  
**To:** Roads <roads@melancthontownship.ca>  
**Cc:** Travis Luiting <travis@daleegroup.com>, Jonathan Hagen <jonathan@daleegroup.com>  
**Subject:** Dust Control Quotation

Good Afternoon Craig,

I hope you and those around you have managed to remain healthy this winter. It's looking like another year of social distancing and mask wearing for the immediate future for us.

I'm working on getting my ducks in a row for the upcoming season and we would like to offer a contract extension for 2021. Due to various factors (carbon tax, freight industry insurance increases, driver shortages, etc), our costs have increased significantly and we need to seek increased prices. Please find attached your price quote for 2021. We value the business with Melancthon Township, we're proposing a modest increase, which matches area pricing already in place (Mulmur).

Again, I hope you manage to stay healthy and I look forward to being able to get out and meet you again in the not too distant future. If you have any questions, don't hesitate call contact me. Take care and talk to you soon.

Best Regards,

Rick.

**Rick Behnish** | 491 Macewan Street, Goderich, ON Canada N7A 4C7|

(t) 519.524.5903 | (f) 519.524.5485 | (cel) 519.955.0750 | (TF) 1.800.268.4490

email: [Rick@DaLeeGroup.com](mailto:Rick@DaLeeGroup.com)

[www.DaLeeGroup.com](http://www.DaLeeGroup.com)



# QUOTE

350 Jones Road, Stoney Creek, ON Canada L8E 5N2  
T 905.643.1135 ext.21 F 905.643.2299 TF 1.800.268.4490  
C 905.379.1660 [www.DaLeeGroup.com](http://www.DaLeeGroup.com)

**DATE:** 2021-01-28

**CUSTOMER ID:** MELANC

### Customer

**Attention: CRAIG MICKS**  
TOWNSHIP OF MELANCTHON  
157101 Hwy#10  
MELANCTHON ON N9V 2E6  
519 925-5525

### Ship To

PUBLIC WORKS YARD  
157101 HIGHWAY 10 (7KM NORTH OF SHELBURNE)  
MELANCTHON ON N9V 2E6

PRODUCT CODE	DESCRIPTION	EST. QTY	PRICE	UNIT
CALC-SP-MU-DS	35% Liquid Calcium Chloride Sprayed - Municipal Dust Control	420,500	\$0.2580	litres

### TERMS AND CONDITIONS

1. Payment Terms are NET 30 DAYS.
2. Quantities listed above are estimates only. Actual quantity used may be more or less than estimate.
3. Invoiced quantities are based on meter reading, scale weights or units/pallets delivered depending on product/service provided

**2021 QUOTE.** THE QUANTITY IS  
BASED ON LAST SEASON.

*Customer Acceptance (print name, sign and return):*

.....  
PRINTED NAME

.....  
SIGNATURE

*Thank you for your business!*

Quoted By

APPLICATIONS TO PERMIT FOR APPROVAL  
March 18, 2021 COUNCIL MEETING

<b>PROPERTY OWNER</b>	<b>PROPERTY DESCRIPTION</b>	<b>TYPE OF STRUCTURE</b>	<b>DOLLAR VALUE</b>	<b>D.C.'s</b>	<b>COMMENTS</b>
Jennifer Beaudet Applicant: Shane McMann	East Part Lot 17, Con 3 OS 477426 3rd Line	storage building	\$50,000.00	NO	

Plan# 10.1  
MAR 18 2021

**CENTRE DUFFERIN RECREATION COMPLEX**

**BOARD OF MANAGEMENT**

**Minutes of the Regular meeting held January 27, 2021 via ZOOM**

Attendance: Steve Anderson      Shelburne  
Lindsay Wegener      Shelburne  
Chris Gerrits      Amaranth  
Heather Foster      Amaranth  
Laura Ryan      Mono  
Darren White      Melancthon

Kim Fraser      Facility Administration Manager  
Marty Lamers      Facility Maintenance Manager  
Emily Francis      Recreation Program Coordinator  
Randy Chambers

Absent: Dan Sample and Geer Harvey

Meeting called to order by Facility Administration Manager, Kim Fraser at 6:30pm.  
A quorum was present.

Kim Fraser welcomes all board members.

**Elections:**

The floor is opened to nominations for Board Chairman

Chairman: Moved by L. Ryan, seconded by H. Foster to nominate Chris Gerrits for Chairman.

Carried

Chris Gerrits accepts nomination.

Hearing no further nominations:

Moved by L. Ryan, seconded by S. Anderson to close nominations for Chairman. Carried

Chris Gerrits accepts the position of Chairman

Chairman, C. Gerrits assumes chair of the meeting. C. Gerrits thanks the members and continues with the meeting.

The floor is opened to nominations for Vice-Chairman.

Vice-Chairman: Moved by H. Foster, seconded by L. Wegener to nominate Laura Ryan for Vice-Chairman. Carried

Laura Ryan accepts nomination.

Hearing no further nominations:

Moved by D. White, seconded by L. Wegener to close nominations for Vice-Chairman. Carried

Laura Ryan accepts the position of Vice-Chairman

**Committees for 2021:**

See Schedule A

The sub-committee schedule was reviewed. Remove David Thwaites from the schedule until Melancthon fills the position. The remainder of the committees will remain the same.

**Declaration of Pecuniary Interests:**

Chairman, Chris Gerrits stated that if any member of the board had a disclosure of pecuniary interest that they could declare the nature thereof now or at any time during the meeting.

**Agenda:**

Move In-Camera Session ahead of Committee Reports.

Add to New Business, Town of Shelburne report-Anti Black Racism, Anti-Racism & Discrimination Task Force Recommendations.

**MOTION #1** – Moved by L. Ryan seconded by D. White. Be it resolved we approve the agenda dated January 27, 2021 as circulated and amended.

Carried

**Discussion & Approval of Minutes of Previous Meeting December 1, 2020:**

**MOTION #2** – Moved by H. Foster seconded by L. Wegener. That the minutes of the CDRC Board of Management board meeting held virtually on December 1, 2020 be approved as presented and circulated.

Carried

**Correspondence:**

Email from SMHA advising that the board has voted to formally shut down operations for the rest of the season.

**MOTION #3** – Moved by L. Ryan seconded by H. Foster. That correspondence is received and placed on file.

Carried

**In Camera Session:**

At 6:41pm

E. Francis leaves the meeting at 6:41pm

R. Chambers leaves the meeting at 6:47pm

**MOTION #4** – Moved by L. Ryan seconded by D. White. Be it resolved that the Board move into a closed session meeting pursuant to section 239 of the Municipal Act, 2001, as amended for the following reason:

A matter in respect of which a Board, Committee or other body may hold a closed meeting under another Act.

Carried

**MOTION #5** – Moved by L. Ryan seconded by L. Wegener. That the CDRC Board of Management rise from closed session with no report at 6:49pm. Carried

E. Francis and R. Chambers return to the meeting at 6:50pm

**Finance Committee Report:**

**CDRC 2021 Draft Budget and Review of Accounts**

See Schedule B

For discussion, the Board was presented the 2020-2025 Financial Forecast report prepared by Randy Chambers. The report reflected three scenarios, 2020 Actual vs 2020 Budget, 2021 Draft Budget and 2022-2025 Estimate. After review, it was suggested that consideration be given for municipalities to provide "Covid Relief Funding" in the amount of \$150k and the board members will clarify the availability of the funds from their municipality. Staff will forward the report the member municipalities.

After review of the accounts, the following motion was presented.

**MOTION #6** – Moved by H. Foster seconded by L. Ryan. That the bills and accounts as presented in the amount of \$ 80,804.76 be approved and paid.

Carried

R. Chambers leaves the meeting at 7:20pm

D. White leaves the meeting at 7:20pm

**Facility Administration Manager and Recreation Program Coordinator Reports:**

See Schedule C

See Schedule D

Requested that links to CDRC recreation information and programming be shared with the member municipalities.

**MOTION #7** – Moved by L. Wegener seconded by L. Ryan. That we receive the reports from the Facility Administration Manager and the Recreation Program Coordinator

Carried

**Facility Maintenance Manager's Report:**

See Schedule E

**MOTION #8** – Moved by H. Foster seconded by S. Anderson. That we receive the report from the Facility Maintenance Manager.

Carried

**Old Business**

**End of season - Ice Removed:**

Due to the current province wide shut down and enhanced public health and workplace safety measures, the CDRC facility is closed until further notice. Further to the uncertainty of the remainder of the ice season, the difficult decision to begin the ice removal process is underway. The ice plant was shut off on January 18 and allowing the ice to melt so there is no additional costs to run heaters and the Olympia. The active user groups have been consulted and notified. The Free Press contacted Chris for an interview, his comments reflected on how the user groups and staff worked and cooperated to provide as much programming as possible.

**New Business**

**CDRC 2021 Board Meetings:**

The CDRC regular Board Meetings will continue to be the fourth Wednesday of the month.

February 24, 2021	March 24, 2021	April 28, 2021	May 26, 2021
June 23, 2021	July 28, 2021	August 25, 2021	September 22, 2021
October 27, 2021	November 24, 2021		

**Town of Shelburne report-Anti-Black Racism, Anti-Racism & Discrimination Task Force Recommendations:**

The report was received today from the Town of Shelburne and circulated to the board members. Members are asked to review the report prior to the next meeting and discussion will be deferred to the next board meeting.

**Confirmation by By-law**

**MOTION #9** – Moved by H. Foster seconded by L. Ryan. Be it resolved that leave be given for the reading and enacting of by-law #01-2021 being a by-law to confirm certain proceedings of the CDRC Board of Management for its regular board meeting held January 27, 2021. Carried

**Adjournment:**

**MOTION #10** - Moved by S. Anderson seconded by L. Ryan. That we now adjourn at 7:40pm to meet again on February 24, 2021 @ 6:30pm, or at the call of the chair. Carried

\_\_\_\_\_  
Secretary - Treasurer

\_\_\_\_\_  
Chairperson

\_\_\_\_\_  
Dated

## SCHEDULE 'B'

**To: CDRC Board of Management**  
**From: Randy Chambers**  
**Date: January 23, 2021**  
**Subject: 2020 -2025 Financial Forecast**

**2020 Actual vs 2020 Budget**

As detailed in Schedule "A" (attached), the CDRC is expected to have a \$52k loss, versus a \$22k budgeted gain in fiscal 2020. This loss of \$76k was primarily driven by the impact of Covid (\$70k) on rentals and facility programs. The impact of this variance to the financial position at year end is as follows:

Year	2020	2020
Scenario	Budget	Actual
Opening Surplus/Reserves	\$183	\$183
+ Municipal Contribution	\$327	\$327
- Operating Loss	-\$256	-\$347
- Capital Cost	-\$49	-\$32
= Closing Surplus/Reserves	\$205	\$131

**2021 Draft Budget**

Staff has prepared a draft budget for 2021 (Schedule "A") based upon the following base assumptions:

- No rentals from January - March
- Normal operations starting April 1
- 3% increase from municipalities (as per past budgets)
- No rental rate increases
- 2% wage increase
- Roof project grant application is approved and \$42k of engineering design is completed

The \$368k operating loss shown on Schedule "A" (which is \$100k higher than the 2020 budget), is primarily a result of the impact of COVID (\$90K) on 2021 ice rentals. The impact of the 2021 draft budget on the 2021 year end position will be:

Year	2020	2021
Scenario	Actual	Budget
Opening Surplus/Reserves	\$183	\$131
+ Municipal Contribution	\$327	\$337
- Operating Loss	-\$347	-\$368
+ Capital Grants		\$31
- Capital Roof Cost		-\$42
- Capital Cost	-\$32	-\$25
= Closing Surplus/Reserves	\$131	\$64



**SCHEDULE 'A'**

**CENTRE DUFFERIN RECREATION COMPLEX**

**BOARD OF MANAGEMENT**

**COMMITTEES FOR 2021**

<b>PROPERTY/FINANCE COMMITTEE:</b>	<b>CHAIRMAN:</b> Heather Foster <b>Member:</b> Steve Anderson <b>Member:</b> Geer Harvey <b>Member:</b> Darren White <b>Member:</b> Laura Ryan
<b>POOL COMMITTEE:</b>	<b>CHAIRMAN:</b> Chris Gerrits <b>Member:</b> Darren White <b>Member:</b> Lindsay Wegener <b>Member:</b> Dan Sample <b>Member:</b> Laura Ryan
<b>POLICIES &amp; PROCEDURES:</b>	<b>CHAIRMAN:</b> Laura Ryan <b>Member:</b> Heather Foster <b>Member:</b> Steve Anderson <b>Member:</b>
<b>HUMAN RESOURCE:</b>	<b>Member:</b> Laura Ryan <b>Member:</b> <b>Member:</b> Chris Gerrits <b>Member:</b> Steve Anderson <b>Member:</b> Lindsay Wegener <b>Member:</b> Geer Harvey
<b>HALL OF FAME:</b>	<b>Member:</b> Lindsay Wegener <b>Member:</b> Chris Gerrits <b>Member:</b> Darren White

Chris Gerrits is the CDRC Board of Management Chairman for 2021 and is ex-officio on all committees.

Laura Ryan is the CDRC Board of Management Vice-Chairman.

**2022- 2025 Estimate**

Looking forward, the major impact to finances will be the loss of \$160k due to Covid in 2020 and 2021, along with the delay of the roof repairs to from 2021 to 2022. With the inclusion of roof repairs in 2022, and assuming "normal" operating losses and municipal contributions, the following is an estimate of the CDRC's financial position up until 2025:

<b>Year</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>
<b>Scenario</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>
Opening Surplus/Reserves	\$64	-\$89	-\$77	-\$181
+ Municipal Contribution	\$347	\$357	\$368	\$379
- Operating Loss	-\$276	-\$276	-\$276	-\$276
+ Capital Grants	\$489			
- Capital Roof Cost	-\$668			
- Capital Cost	-\$45	-\$69	-\$196	-\$270
<b>= Closing Surplus/Reserves</b>	<b>-\$89</b>	<b>-\$77</b>	<b>-\$181</b>	<b>-\$348</b>

As you will note, based upon these assumptions the CDRC will not have sufficient funds to operate in 2022. Compounding this issue, is the fact that a condition of the roof capital grant stipulates, that the grant money will not be received until proof of the expenditure is provided. This will generate a cash flow issue, the size of which, is dependent on the speed in which grant money is received after the expenditure.

For comparison purposes, below was the estimate at the time of the 2020 budget (pre-covid) that provided the confidence that we could adequately fund the roof repairs.

<b>Year</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
<b>Scenario</b>	<b>Budget</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>
Opening Surplus/Reserves	\$183	\$205	\$18	\$67	\$136
+ Municipal Contribution	\$327	\$337	\$347	\$357	\$368
- Operating Loss	-\$256	-\$263	-\$267	-\$273	-\$279
+ Capital Grants		\$520			
- Capital Roof Cost		-\$710			
- Capital Cost	-\$49	-\$71	-\$30	-\$16	-\$199
<b>= Closing Surplus/Reserves</b>	<b>\$205</b>	<b>\$18</b>	<b>\$67</b>	<b>\$136</b>	<b>\$27</b>

**Recommendations:**

To properly plan for the financing of the roof repairs and to ensure adequate cash flow to operate the facility, it is suggested that consideration be given for municipalities to provide "Covid Relief Funding" in the amount of \$150k (re: \$160k actual loss) prior to April 1, 2022, the estimated start date of roof construction. This will allow for the front ending funding of the roof repair and provide a reasonable cash flow cushion.

Also, that consideration be given for the Board to consider working proactively with funding municipalities to secure "cash advances" to address the issue of cash flow in 2022 as it pertains to front end funding of capital roof expenditures. Discussions have commenced with the Town of Shelburne and the construction engineers (SBA) to minimize this exposure.

SCHEDULE 'C'

Facility Administration Managers Report – January 27, 2021

General Information:

- Closing 2020 financial year end. Reconcile year end reports to HST, source deductions, OMERS, WSIB, etc. Working with Randy and Marty preparing 2021 budget
- Received information from BDO. Preparing reports and information to send to BDO next week, audit scheduled to begin week of February 8<sup>th</sup>
- 2021 Canada Summer Job application submitted. Participated in an information webinar January 21<sup>st</sup>
- Preparation of employee 2020 t-4's
- Reviewing the process to change the current version of Payment Evolution payroll program to Business Plus. The current version has a limit of processing 25 active employees and payroll is deposited into employees account set up at Pace Credit Union in Shelburne. The cost is \$22 per month for the program plus \$1 per deposit transaction. The Business Plus version cost is \$1.50 per employee per pay period. This includes the program, has no processing limit and allows deposit into any chartered bank account, as well as a few other processing and merging enhancements. Minimum charge is \$50 per month. Overall, the cost difference will be neutral. Set up and training cost is \$99.

Old Business:

- Due to the current province wide shut down and enhanced public health and workplace safety measures, the CDRC facility is closed until further notice. Further to the uncertainty of the remainder of the ice season, the difficult decision to begin the ice removal process is underway. Our active user groups have been consulted and notified.

New Business:

- Reviewing all CDRC staff orientation and health & safety training to ensure all training is more uniform for all staff and standardized. Will require review and development of some policies.
- Continue to streamline office space. Archiving and organizing records.

Kim Fraser  
Facility Administration Manager

## SCHEDULE 'D'

Submitted By: Recreation Program Coordinator Emily Francis

To: CDRC Board of Management

Date: Wednesday January 27<sup>th</sup>, 2021

Subject: Recreation Coordinator Report

### Overview of December

- Answered daily phone inquiries/emails, daily dressing room assignments, screening sheet preparation for all rentals, posted updates/posts to social media platforms, updates to the website content.
- Booked several ice rentals for the month of December. With COVID-19 announcements we had several rentals booked the day before.
- Men's 55+ and 65+ shinny was very popular throughout December. Each skate had 15-22 participants who skated Wednesday and Friday mornings. The Men's 65+ shinny was new to the CDRC in December 2020.
- Supervised all programs utilizing the ice surface including Public Skate, Adult Skate, Figure Skating Ticket Ice. Each participant was required to book their spot ahead via phone. All program participants were screened at the entrance and made aware of all Covid-19 protocols.
- The seasonal summer employment opportunities were posted on the Town of Shelburne website on Friday December 18<sup>th</sup>, 2020. The job posting closed Wednesday January 20<sup>th</sup> at 3:00pm for the Seasonal Outdoor Pool Deck Supervisor, Lifeguard/Instructor, Head Day Camp Counsellor and Day Camp Counsellor position.

### January/Tasks Going Forward

- Answer daily phone inquiries/emails, posted updates/posts to social media platforms, updates to the website content.
- Updating and developing CDRC Staff Training (Specifically Recreation Staff) and Documents/Resources needed for Recreation Programs (including Camp and Pool)
  - o Updating the Pool and Camp Manual as they are outdated and do not reflect current procedures (the Camp manual will act as a guide for all recreation programs).
  - o Exploring the County Health and Safety Share point to gather documents that are required to be included in training.
  - o Compiling Health and Safety resources for topics that are to be reviewed annually with all staff members.
  - o Communication with Dufferin County Health and Safety to gather any additional information needed regarding training new and returning staff.
  - o Gathering information from other Recreation Coordinators to enhance the quality of training that is provided to staff. Documents include manuals, registration forms, recreation training outlines.
  - o Collaboration with Kim and Marty to ensure all Operating Procedures applicable to recreation staff are up to date for training.
  - o Preparation for 2021 Summer Staff Training days
    - Meetings for both outdoor and camp staff begin in May and run until August. Ongoing staff training is an important aspect to a successful program. With COVID-19, we need to be prepared to adapt to protocols when they are available therefore, I would like all planning done for trainings early. Both the pool and day camp require training prior to the operation of the program.

- **Recreation Program Planning**
  - o Planning out the pool schedule and programs for 2021.
  - o Layout of how the day camp will operate (themes, activities, spacing).
  - o Plan for additional recreational programs.
  - o Explore and research grant opportunities for the CDRC recreation.
  - o Create advertising graphics for social media platforms.
  - o **Program Supplies:** creating a list of the current supplies for programs and working at a list of what is needed for programs as well as comparing prices. Following the summer of 2019, the day camp closet was left with very minimal.
- Completed and submitted the **Canada Summer Jobs Grant** for the summer of 2021 on Tuesday January 12<sup>th</sup>, 2020.
  - o Tuned in to a Canada Summer Jobs Briefing Seminar put on by Service Canada on Wednesday January 20<sup>th</sup>, 2020
- Ongoing updates to 2021 budgeted recreation programs.
- Exploring how the CDRC could offer **Virtual Programs**. I sent out an email to the COFCA (Ontario Municipal Facilities) and have received phone calls and great resources as to how operations work at other facilities.
  - o Majority of municipalities who responded are offering predominately fitness classes.
  - o May be an option to begin advanced aquatics courses to begin prior to June pool opening.
  - o Many municipalities were required to purchase new equipment such as microphones, tripods, and proper webcams to ensure the program was high quality.
  - o Worked best for many who pre recorded the program ahead of time.
- **Summer 2021 Employment Opportunities**
  - o 2021 Seasonal Employment opportunities closed on January 20<sup>th</sup> at 3:00pm. Since December 18<sup>th</sup>, 2020 when the jobs were posted I have been answering email inquiries regarding the posted positions and accepting applications. Following the posting of the employment opportunities, emails were sent to 2020 staff and recruits to let them know that we are accepting applications.
  - o Plan interviews for summer 2021 employment opportunities.
  - o Update to all interview questions.
- Compiling **COVID-19 guidelines and protocols** for camps/additional recreation opportunities and how they would apply to the CDRC to ensure that they are prepared prior to the future go ahead. All protocols have changed for operations of camps since June of 2020.
- Review Recreational Water Facility COVID-19 protocols to update outdoor pool guidelines.
- Discussions with the Free Press in regard to the Spring/Summer Recreation Guide. Touching base at the end of January to decide if a recreation guide will be printed. If so, all information will be due by the end of March, if not we will be utilizing social media and the website to relay all information for the summer. Graphics will need to be designed for advertising on social media and the website will need to be updated frequently.
- **Online Registrations:** Explore/develop how programs will accept registrations online for 2021 and create forms that will be used. Online registration was utilized for the summer of 2020, but it was not efficient. Interested participants were to submit a registration request form, once the form was received swim classes were developed based on the interest levels. Once a class was created participants were emailed another form to complete and payment was received via cash/debit or e transfer. Following the receipt of payment, participants then received an electronic receipt and reminder email. I am currently working with Melissa from the Town of Shelburne to see what tips and tricks they have for accepting payments and completing forms in an efficient manner.

I am utilizing this time preparing for future recreation programs so that the CDRC is ready when recreation facilities are permitted to open back up. It is recommended that the summer 2021 seasonal staff interviews be conducted as if all programs are running in June-August so that we are prepared, and applicants have not found new jobs elsewhere. In 2020, we were fortunate to have had all staff hired to make the quick transition opening the outdoor pool. Interviews in 2020 were conducted the end of February in person and this year we have the option to offer them virtually via Zoom.

SCHEDULE 'E'

SAFETY

No issues

GENERAL INFORMATION:

Reviewing Covid government updates and changes regularly updating protocols and safety plan as needed.

Providing budget information for Kim and Randy

Working with Town of Shelburne to complete application for roof and asset management information.

Upstairs boilers quit troubleshoot faulty connection (oxidation.)

In floor heating issues in dressing rooms air lock bled system.

Due to lock down temporary layoff operators effective Jan 14, 2021

Shut ice plant off Jan 18 just allowing to melt a cost savings, not running heaters, brine pump or running Olympia for 12hrs straight very slow as colder outside than April.

Working on operating procedures.

Providing Emily with information for a Kraft Hockeyville contest

Declutter shop paint and sort.

Paint men's lobby rest room touch up women rest room.

Facility checks and snow removal from doors.

Pump assembly leaking mechanical room isolate Jan 22 ordered part.

Staff had provided an excellent job at maintaining a safe environment by making sure the facility was fully clean, disinfected and protocols and guidelines were being followed.

New business



**Marty Lamers**

Facility Maintenance Manager

Centre Dufferin Recreation Complex





**NORTH DUFFERIN COMMUNITY CENTRE  
BOARD OF MANAGEMENT  
MINUTES  
WEDNESDAY, JANUARY 13, 2021 – 7:00 P.M.  
ELECTRONIC MEETING - ZOOM**



The North Dufferin Community Centre Board of Management known as “The Board” held its meeting on the 13<sup>th</sup> day of January, 2021 at 7:00 p.m., as an electronic meeting through ZOOM.

*Those present:*

Chester Tupling, Chair, Mulmur  
Dave Besley, Deputy Mayor, Melancthon  
Patricia Clark, Councillor, Mulmur  
Debbie Fawcett, Melancthon  
Emma Holmes, Melancthon  
Keith Lowry, Mulmur  
Nancy Noble, Mulmur  
Clayton Rowbotham, Melancthon  
James Woods, Arena Manager  
Donna Funston, NDCC Secretary, Melancthon  
Tracey Atkinson, CAO, Mulmur  
Heather Boston, Treasurer, Mulmur

*Regrets:*

**#1 Call to Order by Chair**

Chair Tupling called the meeting to order at 7:01 p.m.

**#2 Additions/Deletions/Approval of Agenda**

-Moved by Clark, Seconded by Rowbotham that the Agenda be approved as amended. Carried.

Addition: Capital Expense – Cost of Lawnmower to be included in next budget

**#3 Declaration of Pecuniary Interest or Conflict of Interest**

None.

**#4 Approval of Draft Minutes**

-Moved by Besley, Seconded by Fawcett, that the minutes of the North Dufferin Community Centre Board of Management held on December 16, 2020 be approved as circulated. Carried.

## **#5 Business Arising from the Minutes**

None.

## **#6 Facility Manager's Report**

Contact was made to Dufferin County and they will be able to supply a barrier for the propane tank at the back of the Arena. James will get it put in place when the barrier arrives.

Clarification was made regarding the non-resident fee that is charged for rentals. Each rental that is not a resident of Melancthon or Mulmur is charged 10% of the total bill as non resident fee or if a team roster with addresses of each player is provided, all players that are non-resident are charged \$37 per person. The team renting the ice is able to choose which option they would prefer.

James reports it would take approximately two weeks to get the ice completely out. The fire department also helps to remove the ice. It was noted that the Arena is a very cold building and would be harder to take the ice out this time of year due to the cold and the time it would take to get the surface cleared.

The wifi in the Arena is not working properly.

The Board requests Heather to contact Intellicore and have them fix any issues.

James was asked how many hours he has been working since the lockdown, he notes about 3 hours per day at the Arena doing inspections and then working from home.

## **#7 General Business**

1. Financial
  1. Accounts Payable
  2. A/R update
  3. YTD vs. Budget comparison
  4. 2021 Budget – Figures to be included in the 2021 Budget
2. NDCC Meeting Dates for 2021
3. COVID-19; Moving into Red Zone
4. Other
5. Unfinished Business
  1. Generator Switch for Mobile Generator

**#1.1** -Moved by Clark, Seconded by Rowbotham that the accounts in the amount of \$18,854.15 be received as presented. Carried.

Discussion around the Teeter Contracting invoice regarding exactly what was fixed. The cupboards in the concession stand fell down and in the upstairs kitchen the cupboard door was put on to cover up the panel. This had to be fixed for fire code and the Fire Chief has been notified that this has been done.

- #1.2 Board requests Heather to check on the A/R and make sure the older amount listed have been paid. Any amount over 61 days will be called.
- #1.3 Discussion with insurance costs being much higher than expected. Mulmur will be issuing a RFP in May. Board requests Heather to contact the Insurance company to inquire about a discount with the Arena being closed. Discussion regarding hydro costs and an amount for the next budget. Heather noted this year only included 11 hydro bills and that would have to be factored in for the next budget.
- #1.4 Heather will bring a draft budget to the February meeting, she notes this is going to be a struggle on the revenue side due to COVID-19 rules and not knowing when the Arena will be able to open. Board suggests being conservative and start revenue in October as per normal operations. Fund raising events will be discussed at the February meeting and possible options for the Beef BBQ to take place as a drive through event. Discussion around putting ice in in September but Honeywood Minor Hockey does not start until October and most rentals don't start until mid October. Weather in September can be warm which will make it harder to put the ice in. The compressors will be running a lot to keep it cold enough which could become costly. For budget purposes the revenue should start in October.

Board directs Heather to bill the sign rentals in the fall of 2021 instead of January as in previous years and that each sign only be charged for half of the year. Requesting a letter be sent to each renter that the sign is still up at the Arena but will not be charged until the fall due to COVID-19 and billing amount will be half.

- #2 Board appreciates Heathers detailed and clear report regarding bank charges.
- #3 As of December 2020 the Arena was closed and the recently issued stay at home order is in effect until February 11, 2021. It was reported to keep the Arena as is will cost roughly \$10,000 per month.  
  
-Moved by Besley, Seconded by Rowbotham that the NDCC Board of Management will keep the ice in until February 11, 2021 when the Province will make decisions regarding the lockdown.  
Further, that if any Provincial decisions are made before February 11, 2021 a special meeting can be called by the Chair. Carried.
- #4 Board directs Donna to leave the grant on as unfinished. Heather notes the consultant Mulmur uses have agreed to forward any grant opportunities that would apply to the Arena.  
Board directs Donna to add the joint council meeting with Mulmur and Melancthon to the Agenda next month, this meeting is regarding the Service Delivery Review from the County and the Efficiency Study from Sierra Planning.

**#5** More discussion regarding capital expense and the Board wants to put in an amount to purchase a lawn mower and trimmer. For budget purposes the board requests Heather to include \$11,000 and will follow the procurement by-law when it comes time to purchase.

A suggestion was made that James could cut the grass at the Honeywood Cemetery and the Arena would bill the Cemetery for the service. This option will be discussed at a later date.

It was noted the presentation to Co-Chair Tupling has not taken place yet due to COVID, it will be after the lockdown when a date can be selected.

**#5.1** Leave on the Agenda as unfinished.

**#8 Information**

**#9 Notice of Motion**

-None

**#10 Confirmation Motion**

-Moved by Rowbotham, Seconded by Clark that all actions of the Members and Officers of the North Dufferin Community Centre Board of Management with respect to every matter addressed and or adopted by the Board on the above date are hereby adopted, ratified and confirmed; and each motion, resolution and other actions taken by the Board Members and Officers at the meeting held on the above date are hereby adopted, ratified and confirmed. Carried.

**#11 Adjournment**

-Moved by Fawcett, Seconded by Noble, we adjourn the North Dufferin Community Centre Board of Management meeting at 8:21 p.m. to meet again on Thursday February 11, 2021 at 7:00 p.m. or at the call of the Chair. Carried.

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**CHAIR**

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**SECRETARY**



**NORTH DUFFERIN COMMUNITY CENTRE  
BOARD OF MANAGEMENT  
MINUTES  
WEDNESDAY, FEBRUARY 11, 2021 – 7:00 P.M.  
ELECTRONIC MEETING - ZOOM**



The North Dufferin Community Centre Board of Management known as "The Board" held its meeting on the 11<sup>th</sup> day of February, 2021 at 7:00 p.m., as an electronic meeting through ZOOM.

**Those present:**

Chester Tupling, Chair, Mulmur  
Dave Besley, Deputy Mayor, Melancthon  
Patricia Clark, Councillor, Mulmur  
Debbie Fawcett, Melancthon  
Emma Holmes, Melancthon  
Keith Lowry, Mulmur  
Nancy Noble, Mulmur (joined at 7:55 p.m)  
Clayton Rowbotham, Melancthon  
James Woods, Arena Manager  
Donna Funston, NDCC Secretary, Melancthon  
Heather Boston, Treasurer, Mulmur

**Regrets:**

**#1 Call to Order by Chair**

Donna called the meeting to order at 7:07 p.m. and asked for nominations for the Chair position for 2021.

**#3 Election of Chair conducted by Secretary**

-Moved by Lowry, Seconded by Fawcett that Chester Tupling be the Chair for 2021.  
Carried.

**#4 Election of Vice Chair conducted by Chair**

-Moved by Besley, Seconded by Fawcett that Clay Rowbotham be the Vice Chair for 2021. Carried.

## **#5 Additions/Deletions/Approval of Agenda**

-Moved by Lowry, Seconded by Clark that the Agenda be approved as amended.  
Carried.

Addition: Mulmur motion from public question period at Mulmur Council meeting Feb 3, 2021.

## **#6 Declaration of Pecuniary Interest or Conflict of Interest**

None.

## **#7 Approval of Draft Minutes**

-Moved by Besley, Seconded by Rowbotham, that the minutes of the North Dufferin Community Centre Board of Management held on January 13, 2021 be approved as circulated. Carried.

## **#8 Business Arising from the Minutes**

1. Email from Heather Boston, Treasurer, Insurance inquiry

No questions were asked and no further clarification is required.

## **#9 Facility Manager's Report**

Discussion on the compressor on the rooftop that is leaking. It will need to be welded to be fixed and that should last 2-3 years. James will get an actual quote of the welding cost to fix. Discussion over repairing the condenser and compressors regarding cost and being a capital repair, these units would not be used in a new or renovated facility. Board wants to try to keep large scale spending at a minimal in hopes of building a new facility.

Discussion around the lawn mower and trimmer quotes, Board agreed with Managers choice.

-Moved by Lowry, Seconded by Besley that the Board of Management accepts the Managers recommendation for the lawn mower and trimmer and that the capital costs be added to the 2021 budget in the amount of \$10,800.00. Carried.

Board directs Heather to send free online training options to James. If any charges for the courses the Board needs to approve the costs before the course is taken.

Board directs James to take the Safe Ice Resurfacing Operators Training. This course is online at a cost of \$275.00. James CPR and First Aid expires in May or June 2021 and he will need to be updated when COVID allows. The certificate is good for three years.

## **#10 General Business**

1. Financial
  1. Accounts Payable
  2. A/R update
  3. YTD vs. Budget comparison
  4. Draft 2021 Budget
2. Beef BBQ and Fundraising Events for 2021
3. Joint Council Meeting – Mulmur and Melancthon – Service Delivery Review & Efficiency Study Update
4. COVID-19; Lockdown plan for 2021
5. NDCC Staff cutting grass for Honeywood Cemetery
6. Other
7. Unfinished Business
  1. Generator Switch for Mobile Generator
  2. Email from Tracey Atkinson regarding Funding Opportunities for Municipalities

#1.1 -Moved by Clark, Seconded by Rowbotham that the accounts in the amount of \$17,424.90 be received as presented. Carried.

#1.2 Discussion on the A/R balances in 60-90 days. James is directed to contact any overdue amount and collect the outstanding balance. Mulmur staff sends arrears notices after 30 days and makes collection calls when amounts are not received.

#1.3 The year has not been closed yet so the numbers are inaccurate.

#1.4 Heather will have a draft budget prepared for the next meeting.

#2 Beef BBQ is a big fundraiser and will require many volunteers to make it work this year. Discussion on pre-selling tickets and booking pickup times and possibly having tables outside to eat. More discussion next month and hoping to be back in the red zone to allow people inside the Arena.

#3 The Joint Council Meeting is February 17, will have an update at the March meeting.

#4 Announcement will be made Feb 15 letting us know if we are moving out of lockdown. HMHA is 100% ready to come back, if we move back to the red zone they will be ready to play. Had inquiries from other areas to rent the ice as most places have removed their ice due to COVID. If the announcements leaves our area in lockdown the ice will be removed and the Arena closed for the season.

-Moved by Noble, Seconded by Besley that the Board of Management will take the ice out if the announcement made next week leaves our area in the Grey Zone. If we move back to any other colour the ice will remain in. Cost of keeping the ice in has been reduced as a result of the cold weather. Recreational opportunities are our main concern for our youth. Taking risk for the youth of our community and protecting recreation is our focus. Carried.

Addition: Mulmur motion from public question period at Mulmur Council meeting Feb 3, 2021.

The Board appreciates the support of Mulmur Council when answering the public questions.

- #5 Discussion on James cutting the grass at the Cemetery. If NDCC were to purchase a mower and trimmer James could cut the grass and bill the Cemetery, this would be helping the Cemetery and NDCC would be getting more revenue. Chair Tupling will speak with the Treasurer/Secretary of the Cemetery Board to see if they would be interested.
- #7.1 James will get a quote for a generator switch at the front of the building to run heat and lights. Heather notes a generator is not necessary for the Arena to be an emergency shelter. One at the back was necessary to keep water available. It was also noted that when the quote comes in, it should be brought to Kyle Seebach and Sylvia Jones' attention for possible climate emergency funding to run the wire for the hookup.
- #7.2 Heather has spoke with the consultant and they will tell her when a grant becomes available that would work for the Arena. Heather has staff look into any that look like we could apply for. Board requests only forward ones that apply to the Arena.

## **#11 Information**

## **#12 Notice of Motion**

-None

James Woods and Heather Boston leave the meeting as we go into closed session.

## **#13 Closed Session**

1. Approval of Draft Minutes – November 10, 202
2. Section 239 (2)(b) of the Municipal Act, 2001 as amended, - Personal matters about an identifiable individual, including municipal or local board employees  
- Memorandum of Understanding of Roles for the NDCC Staff



-Moved by Besley, Seconded by Lowry the NDCC Board of Management move into Closed Session Meeting pursuant to Section 239 of the Municipal Act, 2001, as amended, at 8:25 p.m. for the following reasons:

Personal matter about an identifiable individual, including municipal or local board employees – Personnel Issues Regarding COVID-19 Lockdown. Carried.

-Moved by Rowbotham, Seconded by Clark, that the North Dufferin Community Centre Board of Management rise from closed session at 9:00 p.m. with report. Report being directives given to staff in the meeting. Carried.

-Moved by Rowbotham, Seconded by Noble, that the Board of Management approves reimbursement of personal expenses incurred as result of work being done for activities of the NDCC. Reimbursement upon invoiced as approved by the Chair of the Board. Further to this, the board approves a retro back to the beginning on the full time contract an amount of \$50 per month for phone expense.

#### **#14 Confirmation Motion**

-Moved by Clark, Seconded by Lowry that all actions of the Members and Officers of the North Dufferin Community Centre Board of Management with respect to every matter addressed and or adopted by the Board on the above date are hereby adopted, ratified and confirmed; and each motion, resolution and other actions taken by the Board Members and Officers at the meeting held on the above date are hereby adopted, ratified and confirmed. Carried.

#### **#15 Adjournment**

-Moved by Rowbotham, Seconded by Besley, we adjourn the North Dufferin Community Centre Board of Management meeting at 9:05 p.m. to meet again on Wednesday March 10, 2021 at 7:00 p.m. or at the call of the Chair. Carried.

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**CHAIR**

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**SECRETARY**



## **MEDIA RELEASE**

FOR IMMEDIATE RELEASE

### **NVCA improves customer service during COVID-19 pandemic**

UTOPIA, Ontario (February 26, 2021) – Today, the Nottawasaga Valley Conservation Authority (NVCA) released its 2020 annual report, which highlights the efforts to serve watershed residents quicker and more efficiently, even during the COVID-19 pandemic.

“I am very proud of the accomplishments that our team and board of directors achieved last year,” commented Doug Hevenor, CAO of NVCA. “None of which would have been possible without the dedication of our passionate and knowledgeable staff.”

In 2020, NVCA’s conservation areas saw a 60% increase in visitors compared to 2019. This led to an increase in revenue from parking fees, which went directly into maintaining trails, improving amenities, enhancing signage and many other projects to give visitors an enjoyable experience.

Several years ago, NVCA implemented online mapping and a property inquiry request form for property owners in the watershed. These tools, along with phone calls, emails and virtual meetings proved to be vital in the COVID-19 pandemic, as regulations staff were not able to meet face-to-face with permit applicants. As a result, NVCA met the Ministry of Natural Resources and Forestry’s customer service timelines by 98.7% and Conservation Ontario customer service timelines by 95.2%.

Last summer, NVCA’s education team developed a video series for families to learn about nature near their homes. Lessons include Backyard Exploration, Pond Dipping and Citizen Science. The outdoor educators also delivered live and pre-recorded virtual content to Grade 4 students from the Simcoe County District School Board.

NVCA’s forestry department planted over 100,000 trees, while in stewardship, staff and volunteers were masked up, sterilized, armed with hand sanitizer and physical distanced while completing 29 environmental restoration projects. These include removing the Petun Dam, restoring 65.4 hectares of grasslands, restoring and rehabilitating 31 km of stream banks and shoreline.

Although most watershed monitoring work stopped due to the pandemic, NVCA partnered with the Georgian College Big Data Analytics post-graduate program to develop a database that will house and analyze 25 years of benthic macroinvertebrate (water bugs) data. The new tool will be used to help other program areas determine the impact of their projects.

Promoting that our watershed residents are safe from flooding and erosion hazards remain a top priority for NVCA in 2020. While working from home, NVCA's planners continued work with developers and municipalities, including reviewing natural hazard studies, environmental impact studies.

NVCA issued four flood messages and one high water levels message in 2020.

For more information about NVCA's projects and accomplishments in last year, download the [2020 Annual Report](#).

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**About NVCA:** The Nottawasaga Valley Conservation Authority is a public agency dedicated to the preservation of a healthy environment through specialized programs to protect, conserve and enhance our water, wetlands, forests and lands.

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[mleung@nvca.on.ca](mailto:mleung@nvca.on.ca)

# 2020 Annual Report



**Nottawasaga Valley**  
Conservation Authority



# YEAR IN REVIEW

## Planning and Regulations

**3,307**

Total Permit and Planning Inquiries

**781**

Conservation Authorities Act Approvals

**130**

Violations

**20**

Subdivisions (Includes Condominiums)

**1,580**

General Inquiries

## Conservation Lands

**13,001**

Total Acres of Conservation Lands

**60%**

More Visitors Compared to 2019

## Watershed Management

**4**

Flood Messages Issued

**1**

High Water Messages Issued

**18**

Benthics Monitoring Projects

**2**

Fisheries Monitoring Projects

## Environmental Education

**2,797**

Children Attended Education Programs

**43**

Schools Hosted

**66**

School & Group Visits

**70**

Homeschooler Visits

**206**

Camp Tiffin Participants

**70**

Attendees on Family Nature Days

**112**

Students participated in the Georgian Bay Forever Microplastics Program

## Environmental Restoration

**29**

Stewardship Projects

**66**

Forestry projects

**\$580,681**

Total funding applied

**1,860.10**

Forest Acres Managed

**111,983**

Total trees planted

**31.38**

Kilometres Stream/Shoreline Protected or Rehabilitated

**361**

Active Volunteers

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# Board Members

## **Township of Essa**

Councillor Keith White (Chair)

## **Town of Collingwood**

Councillor Mariane Mcleod (Vice Chair)

## **Town of Wasaga Beach**

Councillor George Watson (Past Chair)

## **Township of Adjala-Tosorontio**

Deputy Mayor Bob Meadows

## **Township of Amaranth**

Councillor Gail Little

## **City of Barrie**

Councillor Gary Harvey

## **Town of the Blue Mountains**

Councillor Andrea Matrosovs

## **Town of Bradford West Gwillimbury**

Councillor Raj Sandhu

## **Township of Clearview**

Councillor Thom Paterson

## **Municipality of the Grey Highlands**

Councillor Dane Nielsen

## **Town of Innisfil**

Councillor Rob Nicol

## **Township of Melancthon**

Councillor Margaret Mercer

## **Town of Mono**

Councillor Ralph Manktelow

## **Township of Mulmur**

Councillor Shirley Boxem

## **Township of Oro-Medonte**

Councillor Cathy Keane

## **Town of Shelburne**

Councillor Walter Benotto

## **Township of Springwater**

Mayor Don Allen

## **Town of New Tecumseth**

Councillor Donna Jebb



## Vision

A sustainable watershed that is resilient to the effects of climate change, urban growth and other stressors and provides for safe, healthy and prosperous people and communities.

## Mission

Working together to deliver innovative, integrated watershed management that is responsive to the environmental, economic and social sustainability of the Nottawasaga Valley watershed.

## What We Value

An abundance of clean water, clean air and fertile soils that provide for healthy people and ecosystems.

Natural heritage systems and the ecosystem services they provide, particularly as they support resilience to the effects of a changing climate.

Distinctive landforms and waterways including the Georgian Bay coastline, Niagara Escarpment, Minesing Wetlands and others that give our watershed a unique sense of place.

Quality recreational opportunities that our hills, forests, meadows, wetlands, waterways and coastline provide for residents and tourists alike.

A wealth of resources within the capacity of our watershed to provide for thriving communities, successful economies and sustainable agriculture, now and in the future.



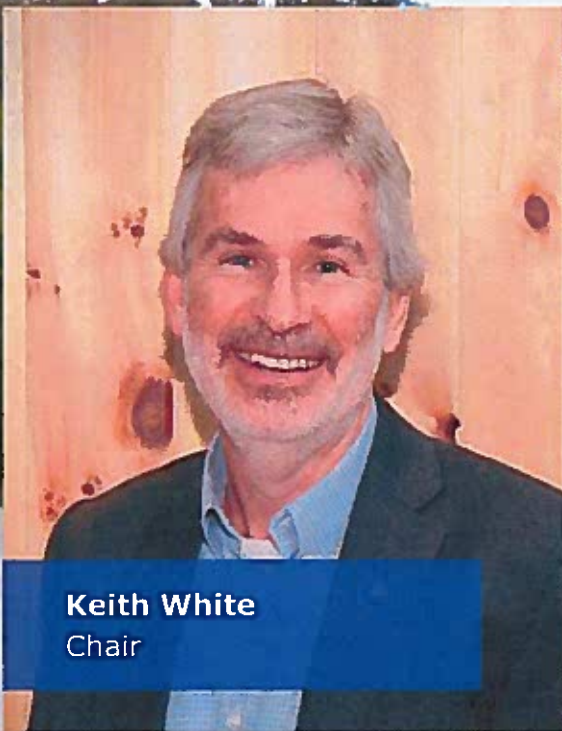
## Message from the Chair and CAO

Reflecting on 2020, we are proud of our many accomplishments during this pandemic year. We were able to provide a safe haven for the public to experience nature and enjoy our conservation areas. Our staff were committed to continue to complete project work in planning and engineering with our many stakeholders. In forestry planting over 100,000 trees and in stewardship, completing vital work in decommissioning the Petun Dam in the northwest part of our watershed.

The Nottawasaga Valley Conservation Authority (NVCA) continued to work with Conservation Ontario and other Conservation Authorities from across the province with written submissions and active participation in information

sessions involving senior levels of government to contribute constructively to the evolution of the regulatory environment which is currently changing in Ontario.

Continuing onward from our 20-year Integrated Watershed Management Plan, NVCA delivered our board approved 5-year strategic plan and 5-year business plan, which will direct staff as we navigate the recent legislative changes and upcoming changes to the regulations to the *Conservation Authorities Act*. These plans will also enable our team to deliver on NVCA programs important to the overall health and safety of our watershed.



**Keith White**  
Chair



**Doug Hevenor**  
Chief Administrative Officer

NVCA took major steps forward, building on last year's server upgrades in acquiring Office 365 and other internet software and programs that have allowed us to seamlessly operate effective work from home and work from office models. As well, the pandemic has allowed staff to explore new technology and move into an increasingly paperless environment in an effort to improve workflows and customer service.

The introduction of internal systems that create operational efficiencies and help to streamline service delivery is a necessity with the increasing challenges NVCA faces in protecting lives and property from natural hazards, and preserving and restoring natural heritage features, making it imperative to provide staff with the all the tools we can to complete their day-to-day tasks.

We were very pleased to see that NVCA remains a highly valued organization by watershed residents and that we are seen as crucial in helping municipalities and environmental groups to achieve their goals and desired outcomes.



Keith White  
Chair, Board of Directors



Doug Hevenor  
Chief Administrative Officer





## **COVID Opportunities**

The COVID-19 pandemic hit NVCA and the rest of Canada at a moment's notice. However, NVCA did not stand still. In fact, we took advantage of the situation and served our customers quicker and more efficiently.

## **Welcoming New Visitors**

During the COVID-19 pandemic, NVCA welcomed many new visitors to our conservation areas, including people from the Greater Toronto Area, and some from as far as Ajax, Whitby and Waterloo. Of course, we continued to welcome visitors from the counties of Simcoe, Dufferin and Grey.

At the beginning of the pandemic, NVCA's conservation areas were closed for a month. Staff used this time to plan and implement COVID-19 related procedures so visitors could explore our conservation areas safely.

Even with the month-long closure, it is estimated that there was a 60% increase in the number of visitors to NVCA's conservation areas compared to 2019. This led to an increase in revenue from parking fees, which went directly into maintaining trails, improving amenities, enhancing signage and many other items to give visitors a more enjoyable experience.



## NVCA Goes Digital

Since the beginning of the COVID-19 pandemic, the majority of staff have been working remotely. Continuing NVCA's centralized approach for applications and data, the Information Management Service team further developed tools, resources, and secured access to corporate information.

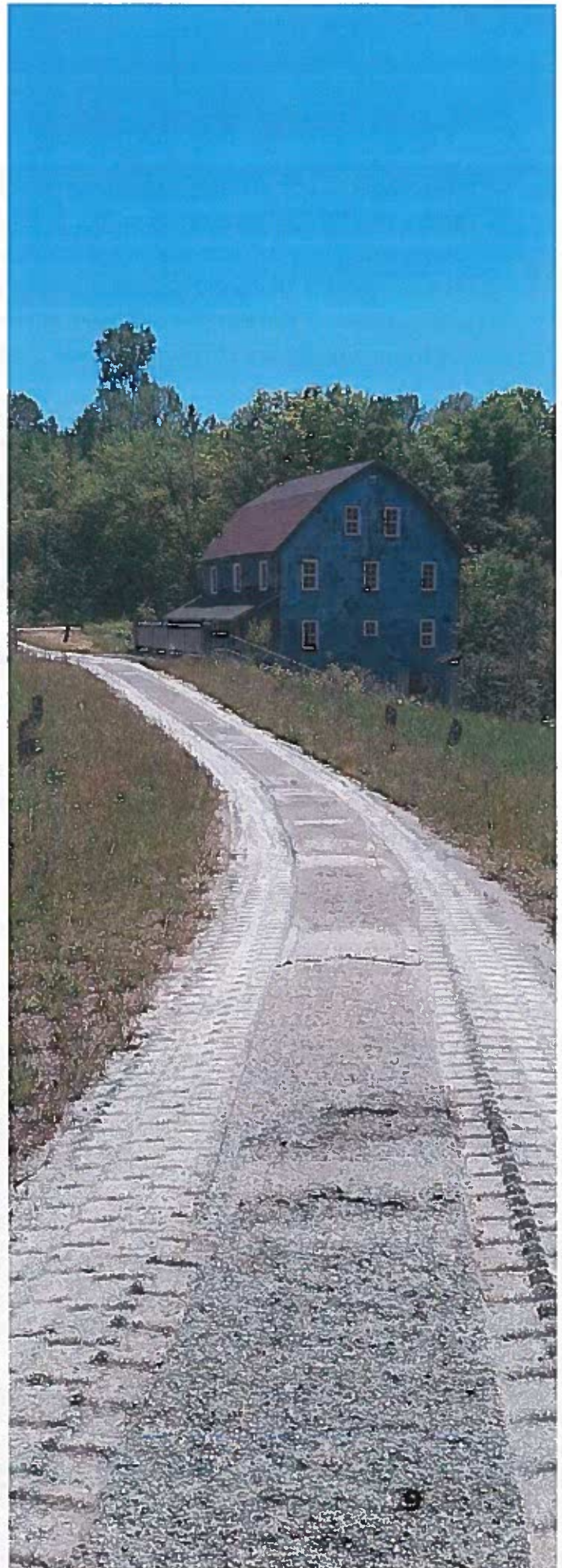
In 2020, NVCA's email platform was moved to Microsoft 365 and MS Teams was implemented for collaborative communication.

To improve workflows through technology, the team further developed GIS mapping tools to enable staff and the public to access spatial data.

## Thriving in a Pandemic

The closure of our office has made reviewing proposed projects face-to-face with clients a challenge for our Regulations team.

With the automated property inquiry request forms that were put in place several years ago, along with other tools like online mapping, phone calls, email correspondence, and virtual meetings, our Regulations team were able to swiftly and efficiently process inquiries and permits for property owners in our watershed.



## Teaching Virtually

NVCA's Education team provides participants with outdoor education opportunities and experience. Like many other programs, the team pivoted during the pandemic by developing a video series for families to learn about nature near their homes. These lessons include Backyard Exploration, Pond Dipping and Citizen Science. After completing the activities outlined in the lesson, families discussed their observations with our educators through Google Classroom.

The Education team was able to use this experience to develop and deliver live and pre-recorded virtual content to fulfill obligations to the Simcoe County District School Board's Grade 4 programming. Approximately 18% of students in the school board chose to learn virtually at home in the fall of 2020. These on-line engagements were in sync with the content delivered to students who learned in class, including population dynamics, plant and animal adaptations and food webs.

## Less Travel Means More Efficiency

NVCA staff often collaborate with other organizations and stakeholders like municipalities, community groups and not-for-profit organizations across the watershed and other areas. Prior to the pandemic, staff would frequently travel to attend in-person meetings.

With video conferencing in place, staff attended meetings virtually while saving hundreds of hours of travel time, and was able to dedicate the time saved to meaningful work.











## Customer Service

### Safety First

NVCA's first priority is the safety of staff and customers. As the COVID-19 pandemic evolved, our staff followed protocols and recommendations from the Ontario government and the Simcoe-Muskoka District Health Unit.

Our Corporate Services team developed Standard Operating Procedures for work spaces and fleet vehicles to inform staff on how to safely return to work. Some

examples include purchasing cleaning supplies, dividing staff into cohorts, implementing a mask wearing policy and undertaking enhanced cleaning procedures.

The Lands team also installed plexi-glass barriers in the reception area of the John Hix Conservation Administration Centre to further ensure safety while staff are speaking with customers.



## Commitment to Our Residents

NVCA is committed to provide customer service that is timely, welcoming and helpful. Our service timelines are governed by the Ministry of Natural Resources and Forestry. In 2019 and 2020, by collaborating with other conservation authorities and Conservation Ontario, NVCA endorsed Conservation Ontario's Client Service Standards for Conservation Authority Plan and Permit Review. With this endorsement, NVCA commits to making improvements to our planning and permitting services timelines.

This year, NVCA met ministry timelines by 98.7% and Conservation Ontario timelines by 95.2%. To further improve customer service, NVCA offers interactive mapping and requires applicants to submit online permit applications. Our Regulations team also encourages pre-consultations, which help applicants submit complete applications, which significantly reduces permit approval time.







## **Integrated Solution for Better Customer Service**

The Engineering team provides technical comments on permit applications for our Regulations team and development submissions for our Planning Services team. This year, the Engineering team made significant improvements to their work flow, helping the Regulations and Planning Departments meet the province's customer service timelines. This means that our customers are receiving reviews faster and can proceed with the next steps of their development quicker.

## **Accessible for All Abilities**

NVCA is committed to providing service for people with disabilities by complying with the *Accessibility for Ontarians with Disabilities Act, 2005 (AODA)*. This allows our staff to identify, prevent and remove barriers that may limit access to our services, facilities and information.

This year, our Corporate Services team completed the Multi-Year Accessibility Plan which describes the actions NVCA will take to remove and prevent barriers to people with disabilities who use our facilities and services, including employees and members of the public.





## Over 100,000 trees planted

Every spring, NVCA's Forestry team plants over 100,000 trees throughout the watershed. Although the tree planting season regularly has its challenges, even a pandemic did not dampen these tree planting efforts.

In the 2020 planting season, a few parts fell off the planting machine. Crews were worried that there would be a delay in completing the plantings on time as they had to wait for replacement parts. The resourceful team persevered and found the missing parts scattered across the fields. The planting continued and was completed on schedule. The 2021 season is shaping up to be another successful year for the Forestry team with another 100,000 trees going into the ground.

Like farmers, the Forestry team watches the weather closely at the beginning of the tree planting season for optimal conditions. Ideal climate conditions for tree planting is cool so the trees remain dormant but not frozen, warm so the ground is soft, but not hot or the trees will leaf out. This is trickier than Goldilocks pursuit.

As the trees mature, they will help stop soil erosion, put nutrients back into the ground and create habitat for wildlife. They also help with flood management. As the snow melts in the winter, the snow under the trees will take longer to melt, and their roots also help water go into aquifers, helping to refill groundwater.





## Restoring Our Watershed

Amid the COVID-19 pandemic, volunteers and staff at NVCA were masked up, sterilized, armed with hand sanitizer and physical distanced during environmental restoration events. This was also one of the strongest years for the stewardship team.

They completed restoration projects that improved water quality, established wildlife habitat and helped with flood management.

## Goodbye Petun Dam, Welcome Back Black Ash Creek

Located in the headwaters of Black Ash Creek, this 6 metre high man-made earthen structure created a 100 metre long stagnant pond which supported algae growth and increased summer stream temperatures by 7°C! Historically, Black Ash Creek was home to native brook trout. While the creek currently supports a wild rainbow trout population, only a few native brook trout remain in the upstream reaches.

To maintain high water quality in the Nottawasaga Valley Watershed, our rivers and streams need to be kept cool as much as possible. Warm water encourages algae growth, which reduces oxygen concentrations for fish and other animals that live in the river.



Funding and staff time available for river restoration work were both limited, therefore it was important to rely on sound data and good science to identify the highest priority best “bang for the buck” projects and locations. The Watershed Science team collected extensive water temperature, flow and fish community data in 2017 and 2018. They identified that removing the Petun Dam was the most effective and “transformative” ecological restoration project that could be completed on all of Black Ash Creek.

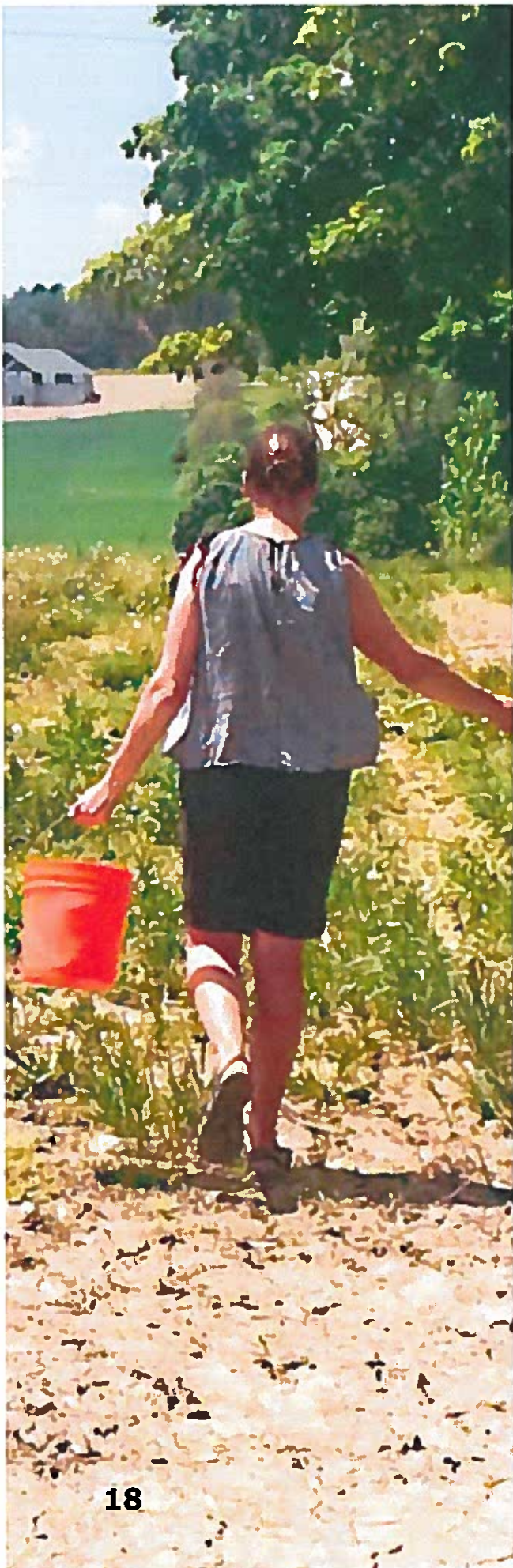
Thanks to generous funding from Bruce Power, Greenbelt Foundation and a wide range of other partners, NVCA’s stewardship team completed a \$160,000 project to remove the dam and restored 130 metres of stream habitat. This project had several goals — to improve downstream water temperatures, enhance brook and rainbow trout habitat, remove a potential threat for downstream flooding, address future impacts from climate change and improve downstream water quality in Black Ash Creek.

The dam removal is the largest ecological restoration project that NVCA has completed in the Town of the Blue Mountains and this work will provide water quality benefits further downstream in the Township of Clearview and Town of Collingwood.

With the restored habitat, it is hopeful that brook trout will once again call the headwaters of Black Ash Creek home and that production of young rainbow trout will increase, creating ecological, recreational and economic benefits to local areas.







## Gorgeous Grasslands

When thinking about restoring the environment, tree planting most often springs to mind. But, few realize the true ecological value that Ontario's native grasslands play, or their large historic extent.

In Southern Ontario, native grasslands once covered more than 400,000 hectares of land. First Nations played a large role in maintaining these ecosystems. The "broad meadows" were recorded by European explorers such as Champlain, La Salle and Cadillac, who came to the region in the late 1600s and early 1700s.

Today, less than 3% of the native grasslands remain.

In 2020, NVCA worked with farmers, rural landowners, volunteers and the Nature Conservancy of Canada to help restore some of these grasslands and enhance hay and pasture management. In addition to more than 40 hectares of native grassland, 7.4 hectares of rotational grazing and 18 hectares of pasture in delayed hay were planted to protect grassland nesting birds, including ground-nesting bobolink and meadowlark. This work was made possible thanks to funding from Forests Ontario's Grassland Initiative and Nature Conservancy Canada.



To successfully plant native grassland, good site preparation is essential. Thousands of dollars could be wasted if not done properly, as weeds and non-native cool-season grasses can easily outcompete young seedlings. Site preparation methods include planting the fields in corn and soy for a few years prior to seeding. Another option is tilling the field multiple times over 1-2 years. For smaller sites, clear tarps were used to harness the sun to heat-kill underlying weeds and their seeds.

At our large grassland restoration sites, once the last crop of soybeans was harvested, volunteers seeded the fields by hand with a native seed mix of grasses and wildflowers in the fall and spring. A light cover crop is also seeded to help with weed suppression. In these projects, 10 kilograms per hectare of annual rye, oats and white millet were used.

Another project involved adding several pollinator patches in an old low-diversity pasture to increase native species diversity. New grassland typically takes 3 years to start maturing, so patience is needed, especially in the first year.

The patience pays off. During monitoring of a grassland site planted in 2019, staff noted that perhaps the most striking change was the great, loud hum of pollinators, insects and birdsong. Where, before grasslands were restored, it was nearly silent.





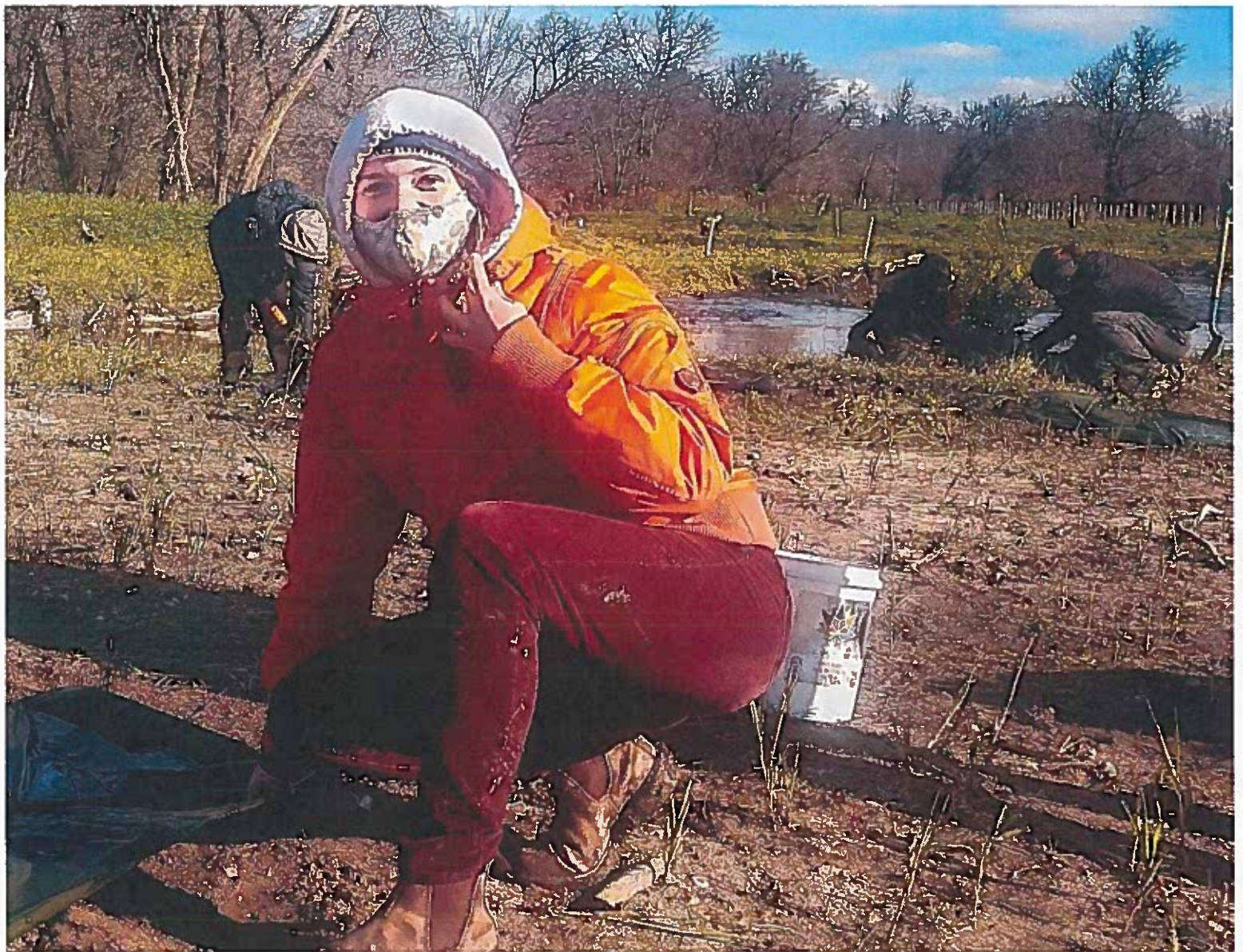


## Restoring the Nottawasaga River

The Nottawasaga River Restoration Program is a strategic multi-year initiative aiming to manage the high quality water source and fish habitat in the Niagara Escarpment World Biosphere Reserve, and extend these resources downstream into the agriculturalized Simcoe Lowlands.

In 2020, NVCA's Stewardship team and Nottawasaga Futures staff completed a project on a private land owner's property situated on the upper Nottawasaga River in the Township of Adjala-Tosorontio. Staff and volunteers restored a 400 metre long section of the Nottawasaga River by stabilizing 355 metres of eroding bank, creating 2,900 square meters of floodplain and planting 1,325 native trees and shrubs. The total value of the project was over \$92,000.





This project provides large-scale opportunities for enhancement of both recreation fisheries and native fish populations. The proposed river restoration work will increase the production of migratory Chinook salmon and rainbow trout which currently support strong sport fisheries in southern Georgian Bay and the lower Nottawasaga River. Restoration will also expand the resident brown trout fishery in the upper river. Anticipated water quality improvements will benefit many native fish including Northern Brook Lamprey a “species at risk” and an unusual river resident ling cod population.

This project was made possible through partnerships with the Ontario Trillium Foundation, Fisheries and Oceans Canada, Patagonia-Tides Foundation, HJ McDonald Foundation, local landowners, the South Simcoe Streams Network, Nottawasaga Steelheaders, Headwaters Flyfishers, Somerville Nurseries, Township of Adjala Tosoronto and Rumball Excavation.







## Growing Live Stake Nurseries

Each year, NVCA undertakes stewardship projects to prevent soil and nutrients from going into rivers, streams and wetlands. This reduces algae blooms, improves water quality, and provides fish and wildlife habitat. A single kilogram of phosphorus can grow up to half a ton of algae, so a little prevention goes a long way!

A bio-engineering technique called livestaking is frequently used in restoration projects to stabilize riverbanks. Stems are selectively cut from dormant plants, usually native willow and red osier dogwood, and planted into the new restoration site. These livestakes then form new roots and grow into new shrubs, stabilizing stream banks and preventing erosion.

Livestaking success is dependent on getting the right species for the site conditions. To protect the donor plant, NVCA staff collect the willow and red osier dogwood from donor sites across the watershed. In 2020, NVCA's stewardship staff and volunteers started a livestake nursery to make collecting even easier.

To establish the livestake nursery, a shallow trench was dug and planted with species well suited for a standard nursery. It will take a few years before the young plants are big enough to harvest livestakes from.





## Data and Mapping

### A New Database for Our Scientists

NVCA's Watershed Monitoring team use scientific data to determine the health of the Nottawasaga Valley Watershed. They do this by collecting, analyzing and interpreting different types of data such as stream temperature and flow, forest size, and the types of benthic macroinvertebrates (aquatic bugs) and fish that live in our rivers and wetlands. This information is used to gauge the success of stewardship projects and to help evaluate the impact of proposed developments. NVCA also shares this information with outside organizations like municipalities, businesses, non-profit organizations and members of the public to support a variety of other projects.

In 2020, NVCA partnered with the Georgian College Big Data Analytics post-graduate program to develop a database that will house and analyze NVCA's 25 years of benthic macroinvertebrate data. These tools will help NVCA staff gain deeper insight into the meaning of data sets, which will help other program areas determine the impact of their projects. NVCA's data can easily integrate with data from other organizations. The students will also develop data collection forms so our staff can enter data directly into the database while out in the field.





## Updating Maps to Promote Safe Communities

One of the main roles of conservation authorities is to promote public safety and avoid property damage as a result of flooding and erosion. NVCA uses the best information available to map these hazards in order to identify communities and areas that are susceptible to flooding and erosion.

These hazards are a natural process that change over time so hazard maps need to be updated on a regular basis to reflect these changes. In the Nottawasaga Valley Watershed, this

is especially important as land use is changing rapidly, primarily from rural to urban. Often, these changes impact the flow of streams and rivers, as well as landscape and topography.

New data, modelling, and software development allow NVCA, municipalities and residents to have a better understanding of flood and erosion risks. With funding from the National Disaster Mitigation Program and municipal partners, NVCA's Engineering staff, in partnership with municipalities, were able to update hazard areas for various portions of the watershed, and continues to work with our municipal partners to ensure municipal staff can make informative decisions.





## Responding to Development

Flooding and erosion are recurring natural processes in some areas of the Nottawasaga Valley Watershed.

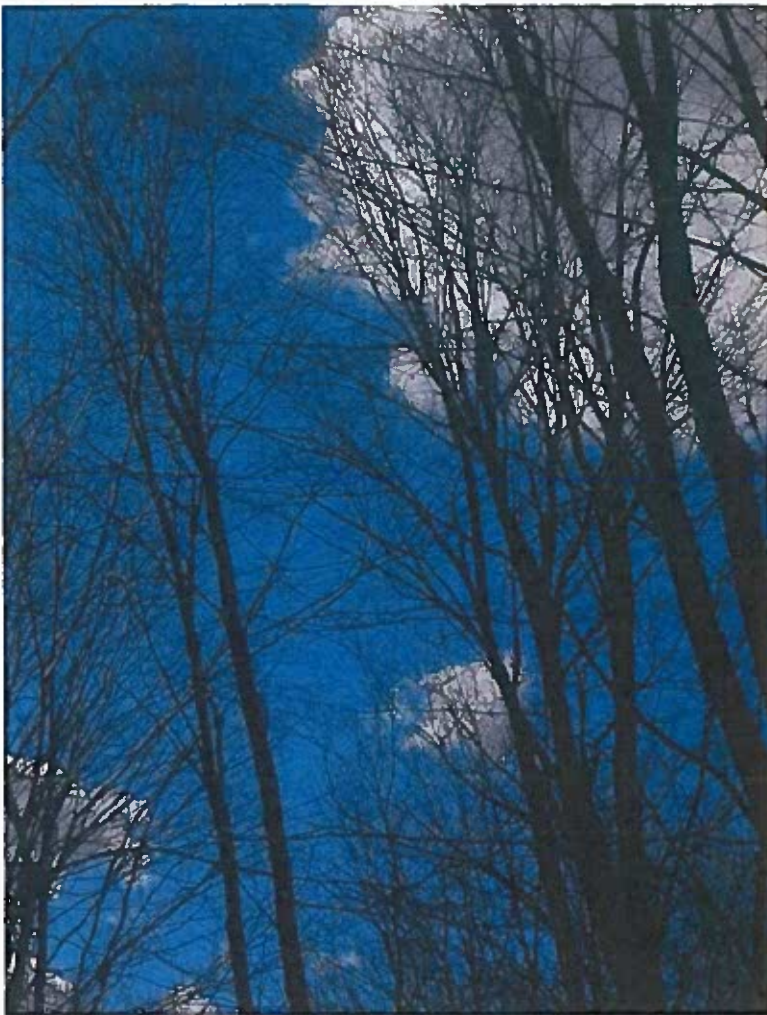
NVCA is mandated under O. Reg 172/06 of the *Conservation Authorities Act* to regulate activities in natural and hazardous areas in order to avoid the loss of life and damage to property from flooding and erosion, and to conserve and enhance natural resources.

## The Key to Safe Development is Planning Early

Many new developments (e.g. subdivisions, site plans, and severances) in the Nottawasaga Valley Watershed contain some type of natural heritage feature or hazard, whether it is a river, wetland, woodlot or flood and erosion hazards. These features present numerous constraints and opportunities for development.

Promoting that our watershed residents are safe from these hazards is the top priority for NVCA's Planning Services team.





During the pre-consultation stage of the development process, applicants may be required to submit a natural hazard study to determine the extent of natural hazards on the property. At times, an environmental impact study may be requested to determine the impacts of the natural heritage features on site.

These studies help NVCA staff locate development limits outside of environmentally sensitive features and areas affected by natural hazards.

## Protecting Properties and Lives

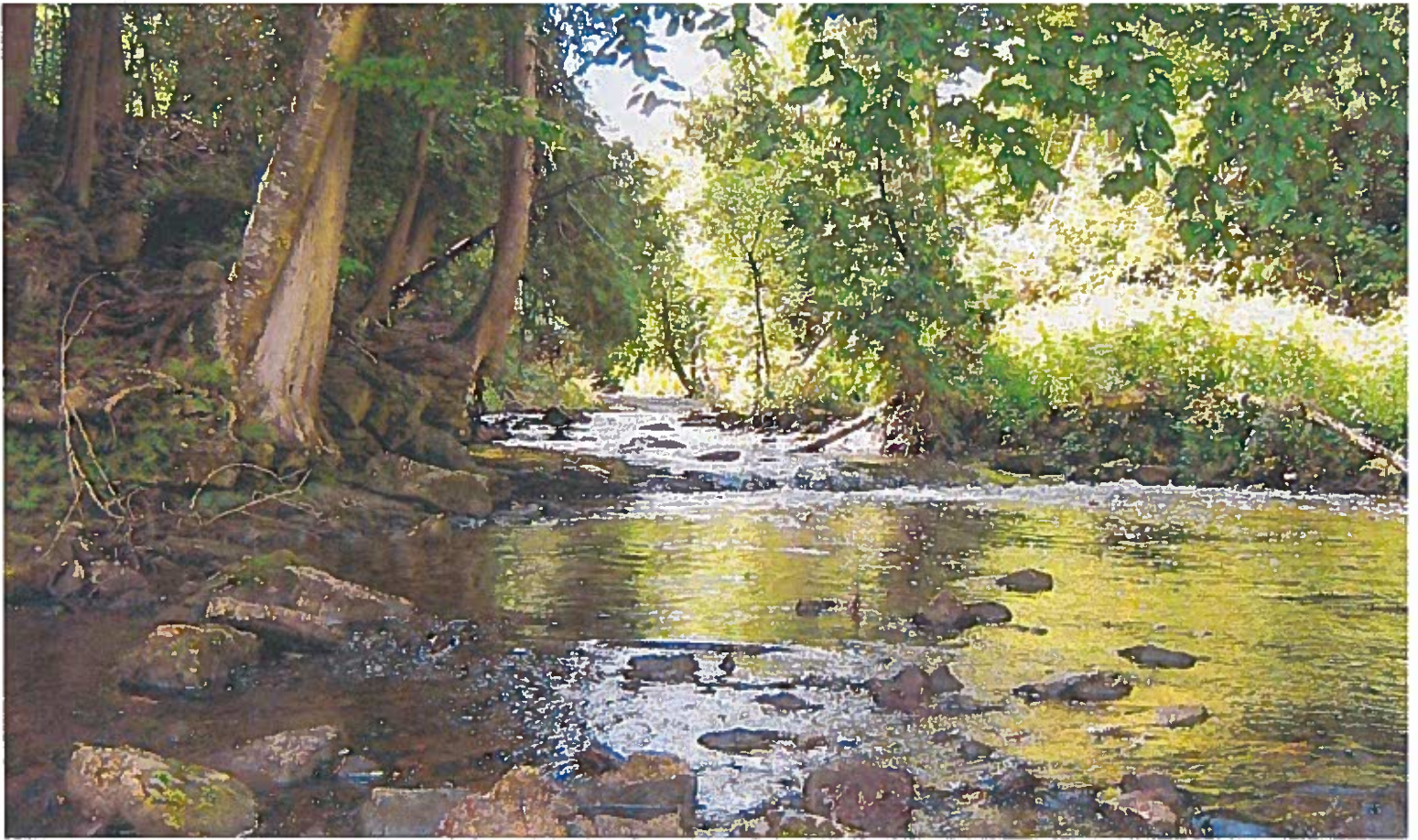
Development in the Nottawasaga Valley Watershed continues to grow. Five years ago, around 2,000 permit and planning applications were processed per year, compared to 3,307 applications processed in 2020.

NVCA's Regulations team works with property owners in the Nottawasaga Valley Watershed to promote new development that addresses the risks associated with flooding and erosion by giving sound, scientific-based advice.

Some recommendations our Regulations Technicians provide may include altering the location of the structure or redesigning the structure. The applicant may be required to hire a consultant to provide additional studies to support the proposal, such as engineering drawings, soil reports, natural hazard assessments or environmental impact studies.

To save time and to ensure applications are successful, applicants are encouraged to contact NVCA staff for a pre-consultation meeting before permits are submitted, or even prior to purchasing a property.





## **A Regulations Success Story**

In 2020, a property owner submitted a permit application in hopes of building a detached barn for their farm. Much of the property was regulated for flood and meander erosion hazards from a watercourse that ran through a portion of the property.

The owner was hoping to build the barn close to the watercourse, which would mean that it was within the river's floodplain. Upon review, one of our regulations technicians found that parts of the property were far enough from the watercourse that it was not regulated for flood hazards or meander erosion hazards.

The regulations technician worked with our engineering staff and provided background information to the property owner and recommended that the barn be relocated a few meters away from the watercourse in an area with less risk. By working together, there were minimal changes made to the site plan and the property owner was not required to provide additional surveys and assessments. Best of all, the barn would be more resilient against potential flooding and erosion impacts and climate change.



## Virtual Board Meetings

Throughout NVCA's history, board meetings have always been in person. With COVID-19 restrictions, the Corporate Services team used WebEx to allow board meetings to continue as scheduled, and BoardBookIt so board members can vote on resolutions virtually.

All of the board meetings after March 2020 were also broadcasted to YouTube for live public viewing.

## Budget Presentations

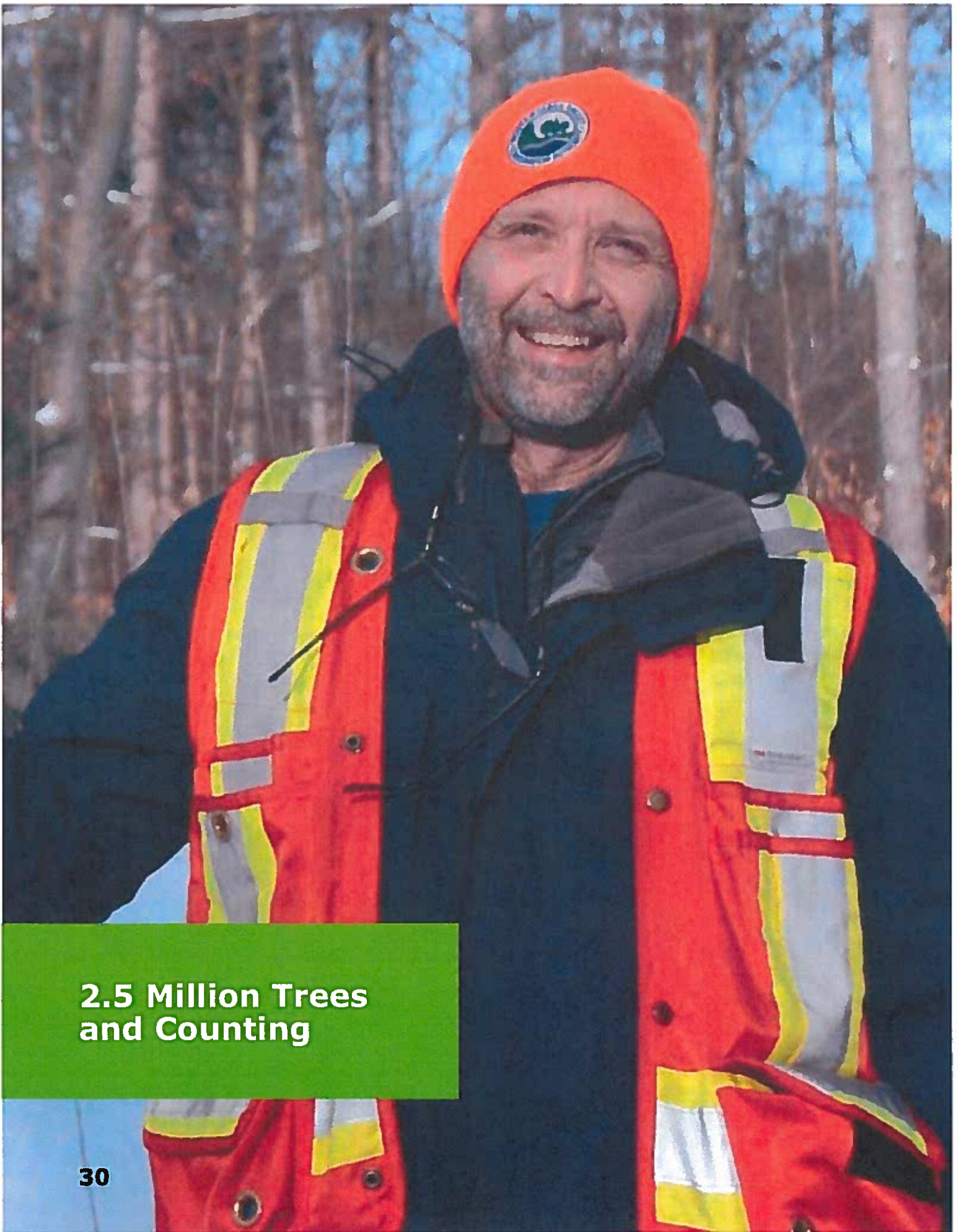
In September 2020, board members were presented with the 2021 Draft Budget with a proposed increase of \$35,768 to the general levy, below the \$38,000 approved guideline.

NVCA's Chair, Vice Chair, CAO and Director of Corporate Services attended nine council meetings to present the budget to our member municipalities.



**Assisting the Board**





**2.5 Million Trees  
and Counting**

There's a saying that says "the best time to plant trees was 20 years ago, the second best time is today".

In the spring of 2020, NVCA's Manager, Forestry, Rick Grillmayer, planted his 2.5 millionth tree. Some of the trees he planted have already become forests!

In his 25 years with NVCA, Rick worked with 577 individual landowners and many other partners to plant new forests. When these trees mature, they will have stored enough carbon to equal taking 8,900 cars off the road. The trees will also help reduce flooding by slowing down the movement of water and making rivers more predictable.

In the 1930s, some areas in the Nottawasaga Valley Watershed were covered by eroding sand. As people settled in these communities, they cleared land for farming, but the topsoil quickly eroded and sand was exposed underneath.

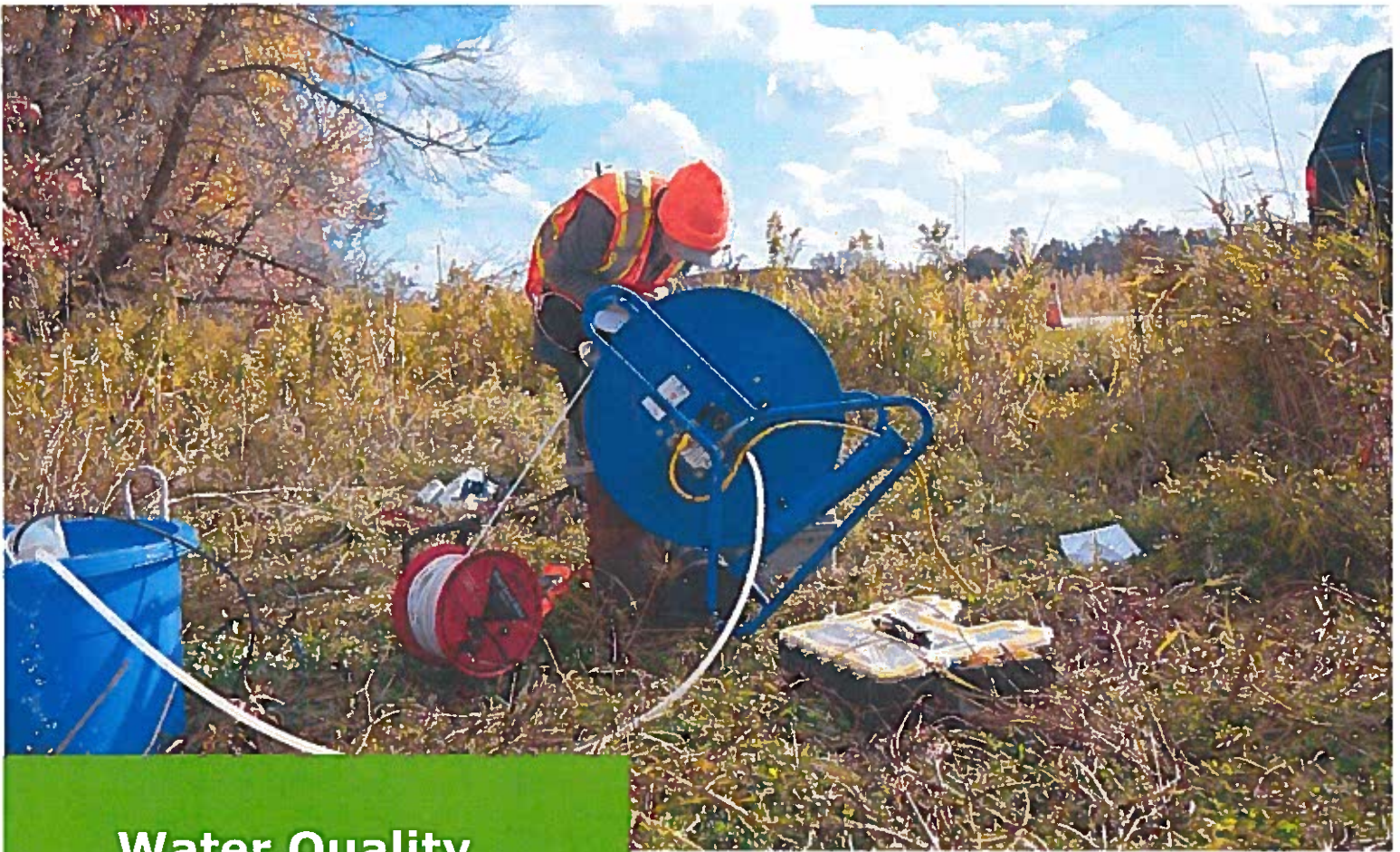
To stop the erosion and restore the land, the Ministry of Natural Resources (MNR) planted millions of trees in the watershed between the 1960's and early 1990's. At that time, NVCA only played a small part in the tree planting efforts. When the MNR cancelled their tree planting program in 1992, the work was left with NVCA and soon after, Rick was called to do the job.

When Rick started working for NVCA in 1995, he worked as a resource technician. In 1997, he became the conservation authority's forester. At that time, he knew little about planting trees, but through trial and error, mentoring from other foresters, and paying close attention to what worked in the past, he produced a unique program for NVCA. It involved meeting with landowners, submitting a proposal, planting the trees, and visiting them after 6 months, 1 year, and 5 years.

He estimates that 70% of the trees he planted have survived and he's pretty happy with this number. Sometimes the trees die from drought, flood, get eaten by deer or they simply cannot compete with other vegetation around the area. Many trees he planted at the beginning of his career are now over 9 metres tall, and can be seen from space through satellite imaging. Sometimes, he drives by them just to take a peek.

Rick is well-respected in the forestry world. He created a well-oiled machine, capitalizing on funding grants while helping hundreds of landowners and the environment. Tree planting season starts again this spring. After that, he will be making the rounds to check up on the thousands of trees he has planted in the last few years.





## Water Quality

### Low Impact Development

As the Nottawasaga Valley Watershed becomes more urbanized, the way rainfall and snowmelt runs off the land changes as well. Hard surfaces like roads, pavements, parking lots and sidewalks means less water will be infiltrated into the ground, causing flood, erosion and pollution problems. One of the roles of NVCA's Engineering team is to use various management practices to mitigate flooding.

One practice is to use Low Impact Development (LID), a technology that increases the ability for water to go into the ground while removing contaminants.

This technology is already being used in municipalities in neighbouring watersheds such as the Lake Simcoe Watershed and the Credit River Watershed. In the Nottawasaga Valley Watershed, we are at the beginning stages of implementing LID. The Engineering team is communicating with municipal partners to share the benefits and maintenance techniques of using the technology. In 2020, the use of LID was recommended through the plan review process whenever there was opportunity.



## Protecting Our Clean Drinking Water

In the Nottawasaga Valley Watershed, residents get their drinking water from either municipalities or private wells. NVCA is a partner in the South Georgian Bay Lake Simcoe Source Protection Region, responsible for protecting municipal drinking water sources in the watershed.

To do this, NVCA's Risk Management Official assists in the implementation of the Drinking Water Source Protection Program for delegated member municipalities. Risk Management Plans were slated to be completed by July 1, 2020. However, due to various reasons, including the COVID-19 pandemic, the Ministry of Environment, Conservation and Parks approved a two year extension for the completion of the Risk Management Plans.

Wasaga Beach Councillor Stan Wells was reappointed to the South Georgian Bay Lake Simcoe Source Protection Committee as the municipal representative from the Nottawasaga Valley Source Protection Authority.

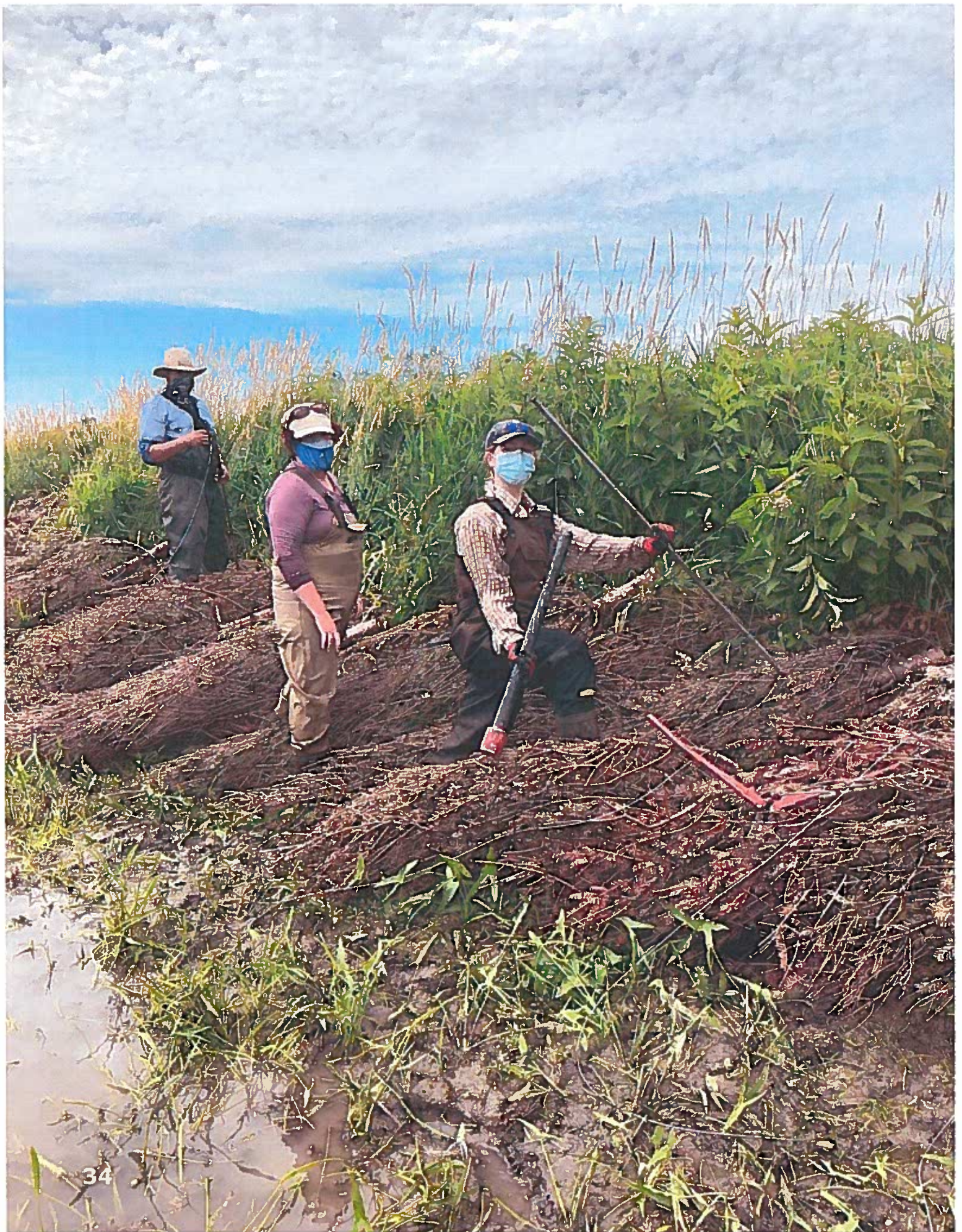
## New and Expanding Wells

Municipalities must follow the *Clean Water Act* and associated regulations to ensure contaminants do not get into drinking water sources (source water) and not too much water is taken. This includes assessing the vulnerability of their new or expanding drinking water systems before the water can be provided to the public.

When a new well comes online or expanded, it is required to be in compliance with legislative and regulation requirements including the *Safe Drinking Water Act* and the *Clean Water Act*. In 2020, the Township of Clearview, Township of Springwater and Town of Shelburne undertook Class Environmental Assessments to establish new municipal wells or expand current ones. NVCA's Watershed Science team assisted our member municipalities to ensure alignment with the *Clean Water Act* and associated regulations.









## Putting the Wiggle back in the Willow

For the last 10 years, "Putting the Wiggle Back in the Willow" was identified as a priority restoration project.

Willow Creek was historically over-widened and straightened. When rivers and streams are over-widened, water moves too slowly and does not transport sediment downstream fast enough, causing too much sediment to accumulate. Too narrow, and the channel erodes too much and entrenches downwards. There's a "Goldilocks' Zone" where the sediment levels are balanced.

In addition, the streambanks of Willow Creek are prone to erosion, as there is a lack of trees and strong roots along the creek to hold soil in place, causing sediment to deposit into the river.

The combination of the two problems created a habitat that did not support a high biodiversity of fish and benthic macroinvertebrates. These insects are the base of the fisheries food-chain.

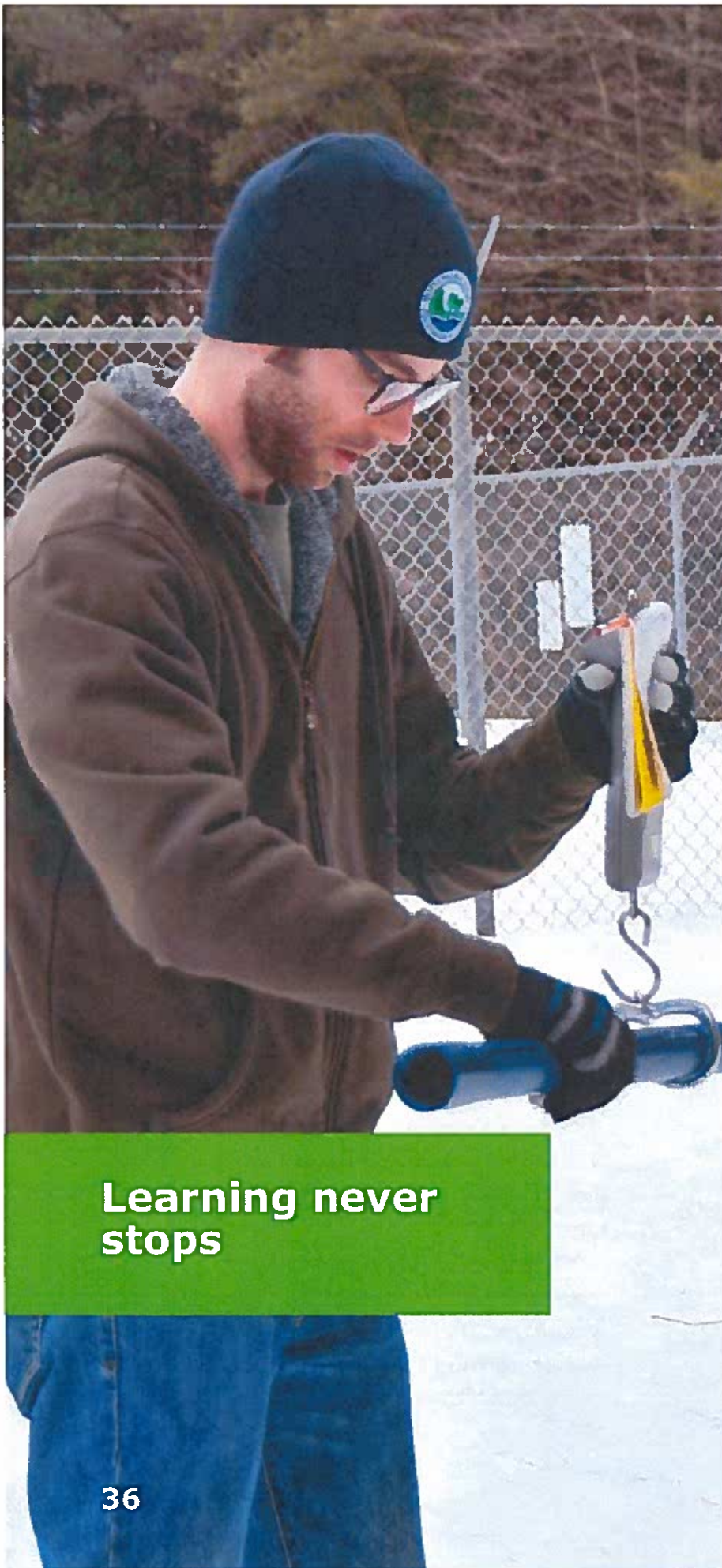
To 'Put the Wiggle back in the Willow', NVCA staff and volunteers spent the last 10 years installing wing-deflectors, triangle-shaped mats of Christmas trees that are cabled into the streambank. These structures act like sediment traps and use natural

processes to recreate the meanders that existed in Willow Creek many years ago. Native plants are then planted on the deflectors and along the streamside, which stabilize the banks and provide habitat.

After 10 years of hard work from hundreds of volunteers and donations from generous organizations, about a kilometer of Willow Creek is now restored. There is still about a kilometer more to do until we reach the unimpaired section.

To determine the success of this work, NVCA's staff sampled the benthic macroinvertebrates and chemistry of the water in this section of Willow Creek. Their conclusion: fish diversity has doubled, the number of fish increased 2.5 times and the benthic water quality index increased from poor to fair. Deposits of sediment in the middle of the creek also disappeared.

Thanks to organizations such as TD Friends of the Environment Foundation, Environment Canada and Nature Conservancy Canada who helped us fund this project over the years. Also, a big thank you to, Somerville Nurseries Inc. for donating the Christmas trees for the wing deflectors.



**Learning never stops**

## **Enhancing Flood Forecasting Capabilities**

NVCA's 18 municipalities are connected by the rivers and streams in the Nottawasaga Valley Watershed. To predict areas that are at risk of being flooded, it is important to know where there will be large amounts of rainfall and snowmelt, and when this water will move to downstream municipalities.

To better serve our communities, the Engineering team is looking into improving the accuracy and lead time for flood forecasting by enhancing current models. The initial stages of these improvements will be completed through the models developed for the Town of Wasaga Beach, along with new modelling planned for the Upper Nottawasaga River. Models for other sections of the watershed will be developed through the next few years.





## Investigating the June 2017 Flood

In June 2017, without warning, the Town of Mono, Adjala-Tosorontio and New Tecumseth experienced widespread flooding. In certain areas, it was considered a 100-year flood event, meaning it had a 1% chance of happening. Many homes were flooded, driveways were washed out, roads were damaged and many farmers lost their crops.

To investigate how this flood happened and to better understand the impacted areas, NVCA's Engineering team was awarded further funding from the National Disaster Mitigation Program.

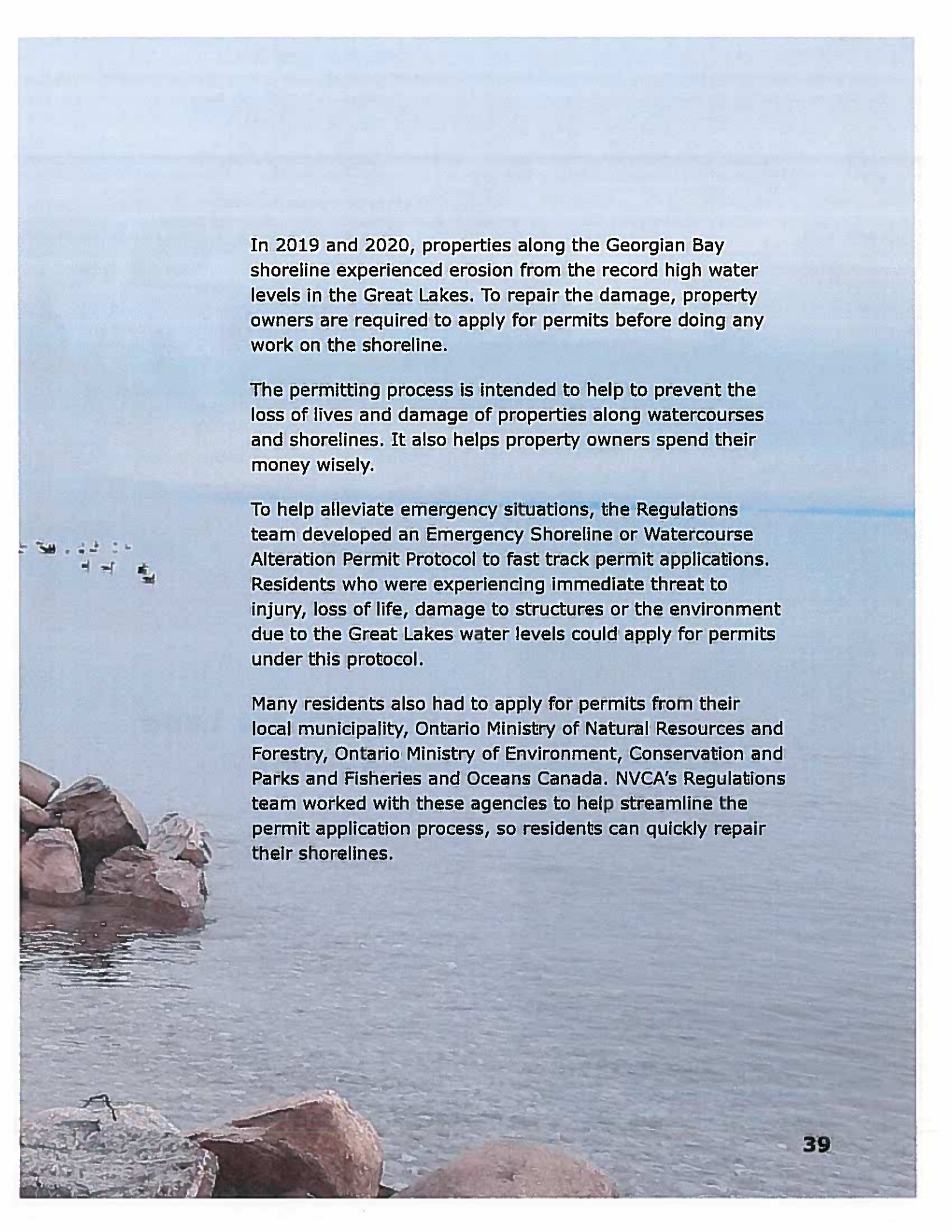
Through the investigation, the team gained a better understanding of where the flood waters reached and what it impacted. Information that was not captured in traditional flood estimation mapping were revealed, including the areas that would be most frequently impacted by flooding.





## High Waters in the Great Lakes



The background of the page is a photograph of a rocky shoreline. In the foreground, several large, reddish-brown rocks are partially submerged in the water. The water is a calm, greyish-blue color. In the distance, the horizon is visible under a pale, overcast sky. The overall scene is serene and natural.

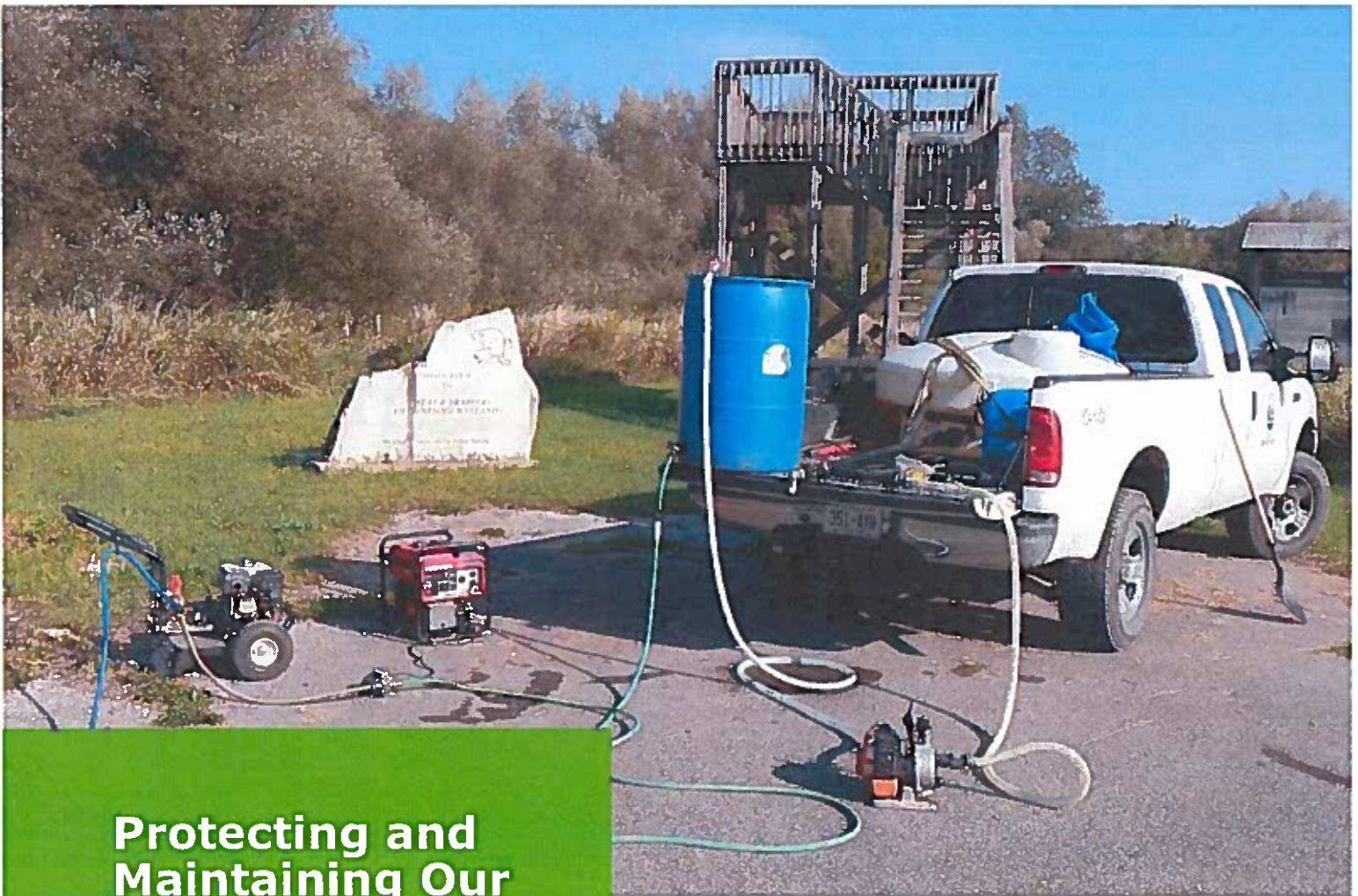
In 2019 and 2020, properties along the Georgian Bay shoreline experienced erosion from the record high water levels in the Great Lakes. To repair the damage, property owners are required to apply for permits before doing any work on the shoreline.

The permitting process is intended to help to prevent the loss of lives and damage of properties along watercourses and shorelines. It also helps property owners spend their money wisely.

To help alleviate emergency situations, the Regulations team developed an Emergency Shoreline or Watercourse Alteration Permit Protocol to fast track permit applications. Residents who were experiencing immediate threat to injury, loss of life, damage to structures or the environment due to the Great Lakes water levels could apply for permits under this protocol.

Many residents also had to apply for permits from their local municipality, Ontario Ministry of Natural Resources and Forestry, Ontario Ministry of Environment, Conservation and Parks and Fisheries and Oceans Canada. NVCA's Regulations team worked with these agencies to help streamline the permit application process, so residents can quickly repair their shorelines.





## Protecting and Maintaining Our Properties

NVCA owns and manages over 13,000 hectares of property throughout the Nottawasaga Valley Watershed. By conserving these lands, we are able to protect important natural features, as well as ecosystems and their functions. Watershed residents and visitors are able to enjoy recreational opportunities provided by these natural areas.

## A Strategy for Land Conservation

By working with external consultants, NVCA's Conservation Services team completed the 2020 – 2030 Land Securement Strategy. The plan prioritizes lands in the Nottawasaga Valley Watershed that have significant natural heritage features or lands that have restoration potential.

Partnership with community partners is an integral component to the successful implementation of the plan.



## Maintaining our Properties

With large events and education programming cancelled or rescheduled, NVCA's Lands team undertook a variety of maintenance projects that would have otherwise been challenging to undertake with a full roster of programs.

It was important for the team to follow the changing COVID-19 guidelines to ensure the safety of guests during the small events hosted throughout the summer.

## The Future of the Historic Fort Willow Conservation Area

The Historic Fort Willow Conservation Area is a significant historical site that is owned and managed by NVCA in partnership with the Friends of Historic Fort Willow. This site was originally used by local Indigenous peoples, followed by fur traders, explorers, military and eventually European settlers.

NVCA's Conservation Services team completed a master plan that lays out recommendations on the development of the site for the next 5 years.





**Education is key**

## **The Purpose of Regulating**

Many residents in the Nottawasaga Valley Watershed are not aware that their property is located in areas regulated by NVCA, and conduct illegal activities that will harm the environment, their property, or even their lives.

Through non-compliance investigations, NVCA's Regulations Technicians are able to inform residents about the dangers of building in areas prone to flooding and erosion and often work with the applicant to secure proper permits for their development and bring them back into compliance

Furthermore, NVCA's Regulations Team plays a key role in education as they consult with landowners, real estate agents, and the general public to help explain the regulations, why a particular area is regulated, and what the permitting process is like.



## Finding Funding to Make Restoration Real

The Nottawasaga Valley Watershed's 18 municipalities contribute seed funding to environmental restoration projects. Our Stewardship team uses these funds to help leverage additional funding from external grants like foundations, private donors and the provincial and federal governments. Every dollar contributed by municipalities result in six dollars of external funding!

In our grant writing process, NVCA's Stewardship team share compelling stories with funders about why this work is important. This includes a detailed description of the geographic area, unique features, water quality of the watershed, why it's important to protect them and the ramifications of doing nothing. Examples include habitat loss, flood and erosion risks, unsafe drinking water and economic setbacks.

With this information, funding organizations decide if the proposed projects match their funding goal. Once the funding is received, NVCA's Stewardship team works to restore degraded areas to help improve water quality, prevent flood risks and provide safe habitats for plants and animals.







## **Fostering Wonder within Our Youth**

Over the past three decades, NVCA's Education Program has delivered high quality, hands on, environmentally based outdoor education. Thanks to a long-term partnership with the Simcoe County District School Board, our educators work with students at the Tiffin Centre for Conservation or at their schools to help them connect with local natural environments. NVCA also offers secondary school programming including several Specialist High Skills Major certificate programs for high school students focused on their next steps at post-secondary school.

In the COVID-19 pandemic, our education program was forced to close for six months. When our Education team came back to work, they developed new programs for the youth in our watershed that could be safely delivered during the pandemic.

Adopted from the traditional summer camp, Fall Camp Tiffin was a day camp designed to enhance children's knowledge, understanding and appreciation of the natural world and our amazing planet! This fun and educational program focused on experiential activities in which young explorers learning at home during the pandemic discovered the variety of species and spaces at our 300+ acre Tiffin Centre for Conservation.

The Borrow an Educator program allowed groups to choose a nature learning activity in the comfort of their own bubble. Some of these programs included: Free Play Forest, Nature Exploration and Hike, Natures Art Room and Focus on Forests.





## Teaching About the Newest Type of Pollution

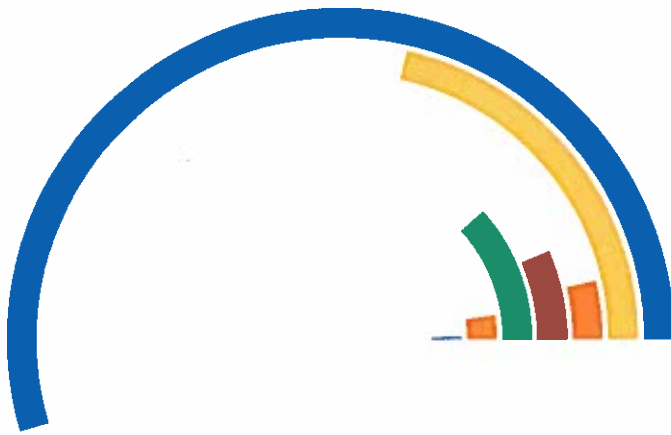
Plastics tend to break down into small fragments which enter the environment as microscopic particles, known as microplastics or microfibers. These can be found in most watercourses, including in Georgian Bay. Microplastics can concentrate harmful chemicals on their surface, like polychlorinated biphenyls (PCBs). These are linked to harmful health effects in wildlife and people.

Thanks to funding from Georgian Bay Forever, education staff will teach students in grades 6-8 in the Town of Collingwood about this newest type of pollution.

Aligned with this focus, NVCA's environmental educators taught students about how water flows in the Nottawasaga Valley Watershed, eventually leading downstream into Georgian Bay. Students walked to the closest body of water from their school, and did some hands-on discovery, which involved taking sediment/soil samples.

Using microscopes, students were asked to look at their samples for natural and unnatural materials. They also took photographs so that they can share what they learned. These activities helped students understand how microplastics are building up in our shared environment, and followed up with what they can do to help reduce them. This program will continue until 2022, with plans of reaching 400 students a year.





## Revenues

- Municipal Levy, 54.6%
- User Fees, 21.4%
- Federal Grants, 3.8%
- Provincial Grants, 6.6 %
- Contributions & Donations 11.9%
- Municipal Grants, 1.2 %
- Reserves & Other, 0.5 %

## Expenses

- Planning Services, 28.7%
- Engineering - Special Projects, 0.2%
- Flood Forecast & Warning, 7.0%
- Watershed Science, 8.3%
- Corporate Services 11.4%
- Information Management & Technology, 5.3%
- Governance, 6.4%
- Conservation Lands, 10.4%
- Stewardship, 18.9%
- Education, 3.5 %



NVCA's total 2020 budget was \$5,185,988. Revenue came from diverse sources, including member municipalities, provincial and federal governments, local non-governmental partners, and user fees for programs and services.

The 2020 balanced operational budget as approved required the use of \$40,144 from NVCA's reserves. Additional board approvals for the use of operational reserves throughout the year brought the total to \$70,144. With solid revenue performance including funding

partnerships and expenditure control, NVCA ended the year requiring the use of \$69,078.

In 2020, NVCA purchased \$47,531 in capital assets (from an approved capital budget of \$181,724), with the overages funded through operational dollars.

This financial information is condensed from year-end, unaudited, statements. The auditor's report for the year ending December 31, 2020, is posted on the NVCA website at [nvca.on.ca](http://nvca.on.ca) once approved by the Board of Directors.

## **CHIEF ADMINISTRATIVE OFFICER**

Doug Hevenor

## **CORPORATE SERVICES**

Sheryl Flannagan, Director

## **FINANCE & ADMINISTRATION**

Haleigh Ferguson, Executive Administrator  
Christine Knapp, General Accountant  
Kelcey Montag, Accounting Clerk  
Kimberly Winder, Receptionist/Administrative Assistant

## **COMMUNICATIONS**

Maria Leung, Communications Coordinator

## **INFORMATION MANAGEMENT AND TECHNOLOGY**

Hendrik Amo, Manager GIS/IT  
Robert Bettinelli, Information Management and Technology Specialist  
Lyle Wood, GIS Analyst

## **WATERSHED MANAGEMENT SERVICES**

Chris Hibberd, Director  
Morgen Wilson, Development Review Coordinator

## **ENGINEERING & FLOOD PROGRAM**

Mark Hartely, Senior Engineer  
Alison Edwards, Water Resource Engineer  
Michael Saunders, Engineering Technologist  
Peter Alm, Water Resource Engineer  
Sheri Steiginga, Flood Operations Field Specialist

## **WATERSHED SCIENCE**

Ryan Post, Manager, Watershed Science  
Devon Owen, Watershed Monitoring Technician  
David Featherstone, Senior Ecologist  
Ian Ockenden, Watershed Monitoring Specialist

## **PLANNING**

Lee Bull, Manager, Planning Services  
Amy Knapp, Planner  
Emma Perry, Planner  
Mike Francis, Planning Ecologist

## **REGULATION & ENFORCEMENT**

Daniel Dyce, Regulations Technician  
Meagan Kieferle, Regulations Technician  
Kate Thomson, Regulations Technician

# **NVCA Staff**

As of December 31, 2020

## **CONSERVATION SERVICES**

Byron Wesson, Director

## **LANDS & OPERATIONS**

Kyra Howes, Manager, Lands & Operations  
Clint Collis, Lands & Operations Technician  
Mike Bacon, Lands & Operations Technician  
Spencer Macdonald, Lands & Operations Technician

## **ENVIRONMENTAL EDUCATION**

Naomi Saunders, Manager, Environmental Education,  
Bob Cole, Environmental Education Associate  
Charlotte Driscoll, Environmental Education Associate  
Grant Wilson, Environmental Education Assistant  
Jo-Ann White-McKenna, Environmental Education Associate  
Maegan McConnell, Environmental Education Assistant  
Pamela Green, Environmental Education Associate  
Susan Hall, Environmental Education Assistant  
Taryn Arsenault, Environmental Education Associate

## **FORESTRY**

Rick Grillmayer, Manager, Forestry

## **STEWARDSHIP**

Fred Dobbs, Manager, Stewardship Services  
Sarah Campbell, Aquatic Biologist  
Shannon Stephens, Healthy Waters Program Coordinator





**Nottawasaga Valley**  
Conservation Authority

www.nvca.on.ca  
e: admin@nvca.on.ca  
t: 705-424-1479

8195 8th Line  
Utopia, ON  
L0M 1T0



**FOLLOW US ON SOCIAL MEDIA**  
**@nottawasagaca**

## Denise Holmes

---

**From:** Tom Pridham <Tom.Pridham@rjburnside.com>  
**Sent:** Monday, March 1, 2021 3:08 PM  
**To:** Denise Holmes  
**Cc:** Laura Warner  
**Subject:** Petition For Drainage Works- Pt Lot 17, Concession 6 SW  
**Attachments:** scan\_tpridham\_2021-03-01-14-43-25.pdf

---

Hi Denise & Laura

Hope things are well

Please see the attached letter regarding our appointment to prepare a report  
Should you have any questions, please call

Thanks Tom



Tom Pridham  
Drainage Engineer

R.J. Burnside & Associates Limited  
15 Townline, Orangeville, Ontario L9W 3R4  
Office: +1 800-265-9662 Direct: +1 519-938-3077  
www.rjburnside.com

COVID 19: We remain open for business

The health and safety of our employees and clients is of paramount importance. Most of our staff are working remotely and continue to serve clients using our well established collaborative technology platforms. For our full COVID 19 response please [click here](#).

\*\*\*\* CONFIDENTIALITY NOTICE \*\*\*\*

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Thank you.

.....





**BURNSIDE**

[ THE DIFFERENCE IS OUR PEOPLE ]

March 1, 2021

**Via: Email**

Denise Holmes, A.M.C.T.  
CAO/Clerk  
Township of Melancthon  
157101 Highway 10  
Melancthon ON L9V 2E6

Dear Denise:

**Re: Petition for Drainage Works  
Pt. Lot 17, Concession 6 SW (Ken Holmes)  
File No.: D-ME-163  
Project No.: 300053020.0000**

We acknowledge with thanks the appointment to prepare a report on the above. In compliance with Section 8 (2) of the Drainage Act and as directed in Councils resolution, please be advised that Tom Pridham, P.Eng., the undersigned will be the Engineer in charge of the project.

We plan to hold the required site meeting in the spring in conjunction with maintenance activities in the area. In the meantime, we will discuss the outlet requirements with the petitioner and review any tile drainage plans that may be available.

Should you or Laura have any questions or if we can be any further assistance in the meantime, please call.

Yours truly,

**R.J. Burnside & Associates Limited**

T.M. Pridham, P.Eng.  
Drainage Engineer  
TMP:kl

cc: Laura Warner, Grand River Conservation Authority (enc.) (Via: Email)

## Denise Holmes

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**From:** Eowyn Spencer <espencer@grandriver.ca>  
**Sent:** Wednesday, March 3, 2021 2:40 PM  
**To:** Eowyn Spencer  
**Cc:** Sonja Radoja; Karen Armstrong  
**Subject:** Grand River CA - 2021 Budget & 2020 Audited Statements

Greetings,

In accordance with Resolution 21-36, as passed by the General Membership of the Grand River Conservation Authority on February 26, 2021, please be advised that the GRCA 2021 Budget and 2020 Audited Financial Statements have been posted on our website. A link to the webpage and the resolution have been provided below. Copies of these documents are available in alternate formats by request.

[Link to Budget & Audited Statements](#)

**21-36**  
*THAT the Financial Statements of Grand River Conservation Authority as at December 31, 2020 and the Report of the Auditors thereon be received, approved and placed on file;*  
*AND THAT copies be made available to all member municipalities, Grand River Conservation Authority Members and the Ontario Ministers of Natural Resources and Forestry and the Environment, Conservation and Parks.*

Should you have any questions or concerns, please contact Karen Armstrong, Deputy CAO/Secretary-Treasurer, or Sonja Radoja, Manager of Corporate Services.

**Eowyn Spencer**  
Executive Assistant | Grand River Conservation Authority  
400 Clyde Road, P.O. Box 729, Cambridge ON N1R 5W6  
519-621-2763, ext. 2200  
[www.grandriver.ca](http://www.grandriver.ca)



**Ministry of  
Municipal Affairs  
and Housing**

Office of the Minister  
777 Bay Street, 17<sup>th</sup> Floor  
Toronto ON M7A 2J3  
Tel.: 416 585-7000

**Ministère des  
Affaires municipales  
et du Logement**

Bureau du ministre  
777, rue Bay, 17<sup>e</sup> étage  
Toronto ON M7A 2J3  
Tél. : 416 585-7000



234-2021-1005

March 4, 2021

Mayor Darren White  
Township of Melancthon  
157101 Highway 10  
Melancthon ON L9V 2E6

Dear Mayor White:

Ontario has heard directly from the municipal sector that operating impacts due to the pandemic will continue in 2021. In order to respond to municipal need and to further strengthen our communities, we are now investing an additional \$500 million to help municipalities respond to ongoing and unprecedented 2021 COVID-19 operating pressures. While the actual extent of municipal impacts for 2021 are uncertain at this time, the province expects that this funding will help municipalities continue to deliver the high-quality local services that residents and business rely on, as well as help municipalities proceed with planned capital projects in 2021.

I am pleased to inform you that the Government of Ontario has committed financial support to the **Township of Melancthon** through the 2021 COVID-19 Recovery Funding for Municipalities program in order to support your COVID-19 operating costs and pressures. All municipalities in Ontario are eligible for this program and the level of funding is based on the proportion of COVID-19 cases in the Public Health Unit for your respective municipality during the period of January 1, 2021 to February 18, 2021. I have reviewed the eligibility criteria for provincial assistance under the program and have determined that accordingly, your municipality will receive **\$48,341.00**, subject to your municipality returning a copy of this letter, signed by your municipal treasurer, to the ministry by March 31, 2021. You will receive these funds in two equal instalments – one instalment on or before May 1, 2021 and the other on or before November 1, 2021.

Please note that your municipality is accountable for using this funding for the purpose of addressing your priority COVID-19 operating costs and pressures. If the amount of the funding your municipality receives exceeds your 2021 COVID-19 operating costs and pressures, the province's expectation is that your municipality will place the excess

funding into a reserve fund to be accessed to support any future COVID-19 operating costs and pressures.

The province realizes that municipalities are facing financial impacts due to the COVID-19 pandemic and that in some instances, this provincial funding will not be sufficient to cover all municipal operating impacts due to COVID-19. The province expects municipalities to do their part by continuing to find efficiencies in their operating services and using existing reserves and reserve funds that have been specifically put aside for such unforeseen circumstances.

Your municipality will be expected to provide two report backs on your COVID-19 operating impacts and the use of these funds as follows:

1. An interim report in June 2021, which will include:
  - a) Use of funds provided last year under the Safe Restart Agreement – Operating funding stream; and
  - b) 2021 estimated COVID-19 operating impacts and how your municipality plans to use the funding under the 2021 program.
2. A final report back in Spring 2022.

We had previously indicated that Safe Restart Agreement reporting would be expected in March 2021. However, we have decided to streamline this reporting and the new 2021 COVID-19 Recovery Funding for Municipalities program. The template for this report back will be provided by the ministry with more details to follow in the coming months. While the province expects your municipality to complete this report, your second instalment under the 2021 COVID-19 Recovery Funding for Municipalities program is not contingent on the province receiving your interim report.

**At this time, I am requesting that your municipal treasurer sign the acknowledgement below and return the signed copy to the ministry by email to: [Municipal.Programs@ontario.ca](mailto:Municipal.Programs@ontario.ca). If the province has not received your letter on or before March 31, 2021, you will not be eligible for this program and your municipality's allocation will not be paid. In order to allow for processing time, please provide your signed letter to the ministry on or before March 24, 2021.**

Our government continues to stand with our municipal partners as we have throughout the pandemic, advocating for funding for communities from the federal government to support local economic recovery. Communities may need more COVID-19 related operating funding in the coming year, and we will continue to advocate on your behalf to the federal government. I encourage you to contact your local Member of Parliament to seek further federal support in order to help municipalities deal with their operating impacts due to COVID-19.

The government thanks all 444 Ontario municipal heads of council for their support throughout the pandemic and our ongoing partnership in Ontario's economic recovery.

Sincerely,



Steve Clark  
Minister of Municipal Affairs and Housing

c. Municipal Treasurer and Municipal CAO

By signing below, I acknowledge that the allocation of **\$48,341.00** is provided to the **Township of Melancthon** for the expected purpose of assisting with COVID-19 costs and pressures and that the province expects any funds not required for this purpose in 2021 will be put into a reserve fund to support potential COVID-19 costs and pressures in 2022. I further acknowledge that the **Township of Melancthon** is expected to report back to the province on 2021 COVID-19 costs and pressures and the use of this funding.

Name:  
Title:  
Signature:  
Date:





**Nottawasaga Valley**  
Conservation Authority

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## **MEDIA RELEASE**

FOR IMMEDIATE RELEASE

### **Maple syrup produced by volunteers supports many good causes**

UTOPIA, Ontario (March 4, 2021) – The trees are tapped, and lines are running to welcome the first drop of sap from the sugar maples at the Tiffin Conservation Area. For more than 40 years, the Nottawasaga Valley Conservation Authority (NVCA) has run a volunteer based maple syrup program to support the local community.

Prior to the COVID-19 pandemic, hundreds of litres of Tiffin Maple Syrup was sold at the annual Spring Tonic Maple Syrup festival, a fundraiser hosted by NVCA and Rotary Club of Barrie. Although the festival is cancelled this year, NVCA is still producing the maple syrup in hopes to further support local causes.

“NVCA started its maple syrup program in the 1980s as an environmental education program for schools and families in the Nottawasaga Valley Watershed, said Byron Wesson, Director of Conservation Services at NVCA. “As the program evolved, the Spring Tonic Festival was born. Over the past decade, NVCA has been in a partnership with the Rotary Club of Barrie that sees all revenues split 50/50 with each side allocating their portion accordingly.”

The share received by NVCA is invested back into the maintenance of the maple syrup operation and our conservation areas while the Rotary Club of Barrie redirects their portion to the local community.

“Every year the event size and participation has been building,” said Darren Robinson, Director of the Spring Tonic Festival at the Rotary Club of Barrie. “A big part of our fundraising is driven by maple syrup sales at the event. The proceeds help the club provide donations to local charities and also allows us to take on self-directed initiatives that benefit the community as a whole. We look forward to working with the NVCA for years to come.”

Volunteers who help with the maple syrup program mainly comprise of seniors and students. In a normal year, the seniors would be on the production line and students would be collecting sap buckets in the sap mobile. NVCA staff only plays a small role, including site preparation and overseeing the production process.

Tiffin Maple Syrup is available for sale online on NVCA’s website or during the weekend at the Tiffin Conservation Area from 11 a.m. – 2 p.m. Cash is not accepted at this time.

**About NVCA:** The Nottawasaga Valley Conservation Authority is a public agency dedicated to the preservation of a healthy environment through specialized programs to protect, conserve and enhance our water, wetlands, forests and lands.

**Media contact:** Maria Leung, Communications Coordinator 705-424-1479 ext.254,  
[mleung@nvca.on.ca](mailto:mleung@nvca.on.ca)

## Denise Holmes

---

**From:** Darren White  
**Sent:** Thursday, March 4, 2021 9:47 PM  
**To:** Denise Holmes  
**Subject:** Fwd: Deadline March 9: Canada Healthy Communities Initiative

While the March 9 deadline is not workable we should look at something for the May 2021 deadline.

Sent from my iPhone

Darren White

Warden  
County of Dufferin  
Mayor  
Township of Melancthon

519 278 8234 cell  
519 925 5525 office  
dwhite@melancthontownship.ca

Begin forwarded message:

**From:** "Seeback, Kyle - M.P." <Kyle.Seeback@parl.gc.ca>  
**Date:** March 4, 2021 at 6:50:07 PM EST  
**To:** "Seeback, Kyle - M.P." <Kyle.Seeback@parl.gc.ca>  
**Subject:** **Deadline March 9: Canada Healthy Communities Initiative**

Good Afternoon,

Please see below the email that MP Kyle Seeback received yesterday evening. It describes the **Canada Healthy Communities Initiative** that will fund projects between \$5,000 and \$250,000 that can support Canadians through COVID-19 and beyond that fall under three main themes: creating safe and vibrant public spaces, improving mobility options, and digital solutions.

More information on the types of eligible projects and application instructions may be found below and on the Canada Healthy Communities Initiative's website at [www.healthycommunitiesinitiative.ca](http://www.healthycommunitiesinitiative.ca).

Please feel free to contact us regarding any questions you may have.

Sincerely,





**Office of Kyle Seeback**

Member of Parliament for Dufferin-Caledon

Hill Office Tel.: 613-995-7813

Constituency Office Tel.: 519-941-1832

E-mail: [kyle.seeback@parl.gc.ca](mailto:kyle.seeback@parl.gc.ca)

Website: [www.kyleseeback.ca](http://www.kyleseeback.ca)

---

**From:** McKenna, Catherine  
**Sent:** Wednesday, March 3, 2021 8:54 PM  
**Subject:** Deadline March 9: Canada Healthy Communities Initiative

Dear Colleagues,

I wanted to make you aware of a great opportunity for your community associations and local organizations.

The Government of Canada has launched the Canada Healthy Communities Initiative to fund projects between \$5,000 and \$250,000 that can support Canadians through COVID-19 and beyond that fall under three main themes: creating safe and vibrant public spaces, improving mobility options, and digital solutions.

Projects could include community gardens, pop-up cycling and walking paths, cross country ski trails, widening sidewalks and adding signage to support physical distancing, expanding farmers' markets to increase access to healthy, local food, or developing apps or other digital tools to allow residents to safely access services remotely. It is really up to local communities to identify opportunities that make sense for their residents. I have seen so many innovative local solutions that are making a real difference in their communities.

Local governments and a variety of community-led organizations are eligible to apply, including charities, Indigenous communities, and registered non-profit organizations. Organizations interested in submitting an application are encouraged to visit [healthycommunitiesinitiative.ca](http://healthycommunitiesinitiative.ca) to learn more about the program, eligibility criteria and how to apply. Organizations can also register to attend information sessions on the program.

The goal is to get eligible projects approved quickly with March 9 as the deadline for the first round of funding.

I really encourage you to spread the word.

Best,  
Catherine

---

Chers collègues,

Je voulais vous faire part d'une grande opportunité pour vos associations communautaires et vos organisations locales.

Le gouvernement du Canada a lancé l'Initiative canadienne sur les communautés en santé pour financer des projets de 5 000 à 250 000 dollars qui peuvent aider les Canadiens à travers la COVID-19 et au-delà. Ces projets s'inscrivent dans trois grands thèmes : la création d'espaces publics sûrs et dynamiques, l'amélioration des options de mobilité et les solutions numériques.

Les projets peuvent inclure des jardins communautaires, des pistes cyclables et des sentiers pédestres, des pistes de ski de fond, l'élargissement des trottoirs et l'ajout de panneaux de signalisation pour favoriser l'éloignement physique, l'expansion des marchés de producteurs pour accroître l'accès à des aliments locaux sains, ou le développement d'applications ou d'autres outils numériques pour permettre aux résidents d'accéder à distance aux services en toute sécurité. C'est vraiment aux communautés locales d'identifier les opportunités qui ont un sens pour leurs résidents. J'ai vu tant de solutions locales innovantes qui font une réelle différence dans leurs communautés.

Les gouvernements locaux et diverses organisations communautaires peuvent présenter une demande, notamment les organisations caritatives, les communautés autochtones et les organisations à but non lucratif enregistrées. Les organismes intéressés à présenter une demande sont invités à visiter le site Web [www.initiativepourdescollectivitesensante.ca](http://www.initiativepourdescollectivitesensante.ca) pour en savoir plus sur le programme, les critères d'admissibilité et la façon de présenter une demande. Les organisations peuvent également s'inscrire pour assister à des séances d'information sur le programme.

L'objectif est de faire approuver rapidement les projets admissibles, la date limite pour le premier cycle de financement est le 9 mars.

Je vous encourage fortement à faire passer le mot.

Cordialement,  
Catherine

## Denise Holmes

---

**From:** Margaret Mercer  
**Sent:** Thursday, March 4, 2021 4:38 PM  
**To:** Denise Holmes  
**Cc:** Wayne Hannon  
**Subject:** Fwd: Fire Marshal Communique  
**Attachments:** 2021-02e.pdf

Hi Denise,

Could we please include this (including attachment) in the next council meeting as an information correspondence item.

Thank you,  
MMercer

Sent from my iPad

Begin forwarded message:

**From:** Ralph Snyder <rsnyder@sdfd.ca>  
**Date:** March 4, 2021 at 4:25:54 PM EST  
**To:** sylvia.jones@pc.ola.org, ehawkins@mulmur.ca, fred.nix@townofmono.com, glittle@amaranth.ca, Heather Foster <hfoster@amaranth.ca>, Janet Horner <jhorner@mulmur.ca>, Margaret Mercer <mmercer@melancthontownship.ca>, Nicole Hill <nhill@sdfd.ca>, shall@shelburne.ca, sharon.martin@townofmono.com, Wbenotto@shelburne.ca, Wayne Hannon <whannon@melancthontownship.ca>  
**Cc:** Jeff Clayton <jclayton@sdfd.ca>  
**Subject:** Fire Marshal Communique

Fire Board members/MPP

I feel it necessary to clarify some of the statements in this communique regarding the Regional Training Center model as it applies to the Shelburne and District Fire Department.

The nearest RTC is in Markdale 45km each way. Even for a 3 day course that is 270km mileage (many courses are a full week). The OFC in Gravenhurst was 140km each way for a total of 280km. The only way to reduce mileage would be to pay for accommodation which was previously included in the \$65 registration fee.

Our volunteer Firefighter's do not incur "overtime costs", "costs to backfill" or "banked time". Meal reimbursement was never necessary as it was part of the \$65 registration fee at the OFC.

The only cost savings as I see it are for the OFM.

I am not opposed to the Regional Training Center Model, just the downloading of costs onto municipal fire departments, who receive no provincial funding.

Please feel free to share my opinions with your fellow councilors and MPP's.

Ralph Snyder  
Fire Chief



Shelburne & District Fire Department  
114 O'Flynn St.  
Shelburne ON  
L9V 2W9  
[rsnyder@sdfd.ca](mailto:rsnyder@sdfd.ca)  
519-925-5111  
519-938-1609 cell

**Denise Holmes**

---

**From:** Mooney, Carole-Anne (SOLGEN) <Carole-Anne.Mooney@ontario.ca>  
**Sent:** Thursday, March 4, 2021 2:35 PM  
**To:** OFM Subscribers (SOLGEN)  
**Subject:** Fire Marshal's Communiqué 2021-02 - Ontario Fire College Training Modernization (2021-03-04)  
**Attachments:** 2021-02e.pdf; 2021-02f.pdf

**Sent on behalf of the Fire Marshal**

Good afternoon,

The attached Fire Marshal's Communiqué 2021-02 - Ontario Fire College Training Modernization (2021-03-04) is for your information.

Regards,

Jon Pegg  
Ontario Fire Marshal

# COMMUNIQUÉ

du commissaire des incendies

March 4, 2021

No. 2021-02

## ONTARIO FIRE COLLEGE TRAINING MODERNIZATION

This Fire Marshal's Communiqué is issued as a follow up to the January 13, 2021 announcement regarding the decommissioning of the Ontario Fire College (OFC) and the modernization of fire safety training in Ontario.

This Communiqué provides an overview of OFC training modernization through several modes, including online and blended courses, Regional Training Centres (RTCs) and Learning Contracts.

A fire department's training program should be designed to meet its set level of fire protection service, based on its needs and circumstances, and guided by the advice of the fire chief. A training program can include a combination of different OFC training modes as well as local in-house training.

While the decommissioning of the OFC campus in Gravenhurst is set for March 31, 2021, staff will continue to play a leading role in developing training courses. This will include curriculum design and development, registration services, online training development and maintenance, training development to build capacity in RTCs, and monitoring performance and quality assurance of programs at the local level.

As part of this plan, OFC instructors will be assigned regionally so that fire departments have a central point of contact for all training inquiries within their region. Instructors will work collaboratively to ensure the availability of training across Ontario.

Available options for OFC training are outlined below:

1. Online and Blended Courses
2. Learning Contracts
3. Regional Training Centres (RTC)
4. Mobile Live Fire Training Units (MLFTUs)

Inquiries on any of the options available, or how to contact the instructor assigned to your region can be directed to Guy Degagne, Assistant Deputy Fire Marshal, Training and Certification (Guy.Degagne@ontario.ca).



## 1. Online and Blended Courses

Online courses are generally self-paced, which allows for greater flexibility in completing coursework.

Blended courses have a portion of the course online, combined with specific in-person training sessions. The purpose of blended learning is to focus in-person training to elements that cannot be taught online. Blended courses are offered through RTCs or Learning Contracts.

The following courses are available in either an online and/or blended format:

Course	Online	Blended
Legislation	X	
NFPA 1521	X	
NFPA 1031 – Level 1	X	
NFPA 1035 – PIO	X	
NFPA 1035 – Level 1	X	
NFPA 1021 – Level 1	X	X
NFPA 1021 – Level 2		X
NFPA 1021 – Level 3		X
NFPA 1021 – Level 4		X
NFPA 1041 – Level 1	X	X
NFPA 1041 – Level 2		X
Fire Code – Part 2	X	
Fire Code – Part 6	X	
Fire Code – Part 9	X	
NFPA 1001 – Level 1		X
NFPA 1001 – Level 2		X
NFPA 1002		X
NFPA 1006 – Ice/Water Rescue		X
NFPA 1033 – Fire Investigator		X

The remaining National Fire Protection Association (NFPA) courses are scheduled to be upgraded to online and/or blended by the 2022-23 OFC calendar year. These include:

Course	Online	Blended
NFPA 1031 – Level 1	X	
Fire Code – Part 3	X	
Fire Code – Part 4	X	
Fire Code – Part 5	X	
Courtroom Procedures	X	X
NFPA 1072 Haz Mat Operations		X

## **2. Learning Contracts**

Learning contracts provide access to OFC programs through in-house training that is affordable and scalable, and they are provided at the local fire department at their pace. Learning contracts are set up within one fire department, but there is an opportunity for smaller departments to share in the training.

The OFC supports learning contracts with full OFC course delivery including full registration in the OFC database; OFC course numbers; OFC course material; OFC assistance with arranging ASE testing; OFC support in case of Ministry of Labour investigations; and OFC certificates of completion for each student.

Course delivery costs \$65 per student. Training can occur during working hours to reduce overtime costs and can be provided by fire departments' training staff.

## **3. Regional Training Centres (RTC)**

RTCs are operated by municipalities, community colleges, or associations. They are strategically located across the province and provide access to training for career, composite, volunteer, Northern Fire Protection Program (NFPP), and First Nations fire departments.

RTCs are capable of delivering all NFPA programs, including certification testing, and courses meet professional qualification standards including classroom and outdoor fire ground training. It is important to note that course availability across Ontario will be based on a needs analysis that must support local fire departments and the RTC's infrastructure and capacity to deliver.

A number of factors may result in cost savings or avoidance for fire departments that train at RTCs including mileage to and from the home location, costs to backfill fire department personnel, meal reimbursement, banked time and overtime costs.

The interest to open and operate a new RTC has grown significantly since the announcement in January. A map of current RTC locations is provided below, along with some additional locations being considered. Please note that potential locations are continually being updated and not all locations are reflected in the attached map.

## **4. Mobile Live Fire Training Units (MLFTUs)**

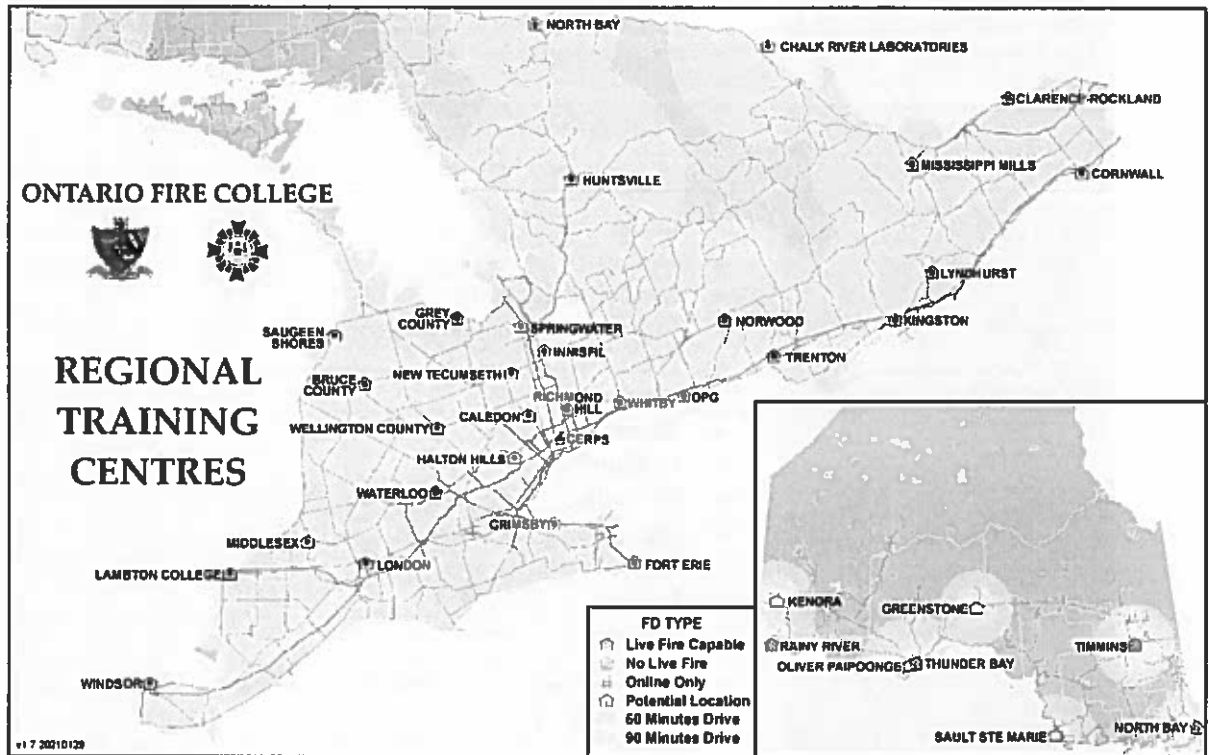
The OFM has purchased two mobile live fire training units that will be available to fire departments across Ontario. In order to support training across the province, one unit will be deployed in northern Ontario and one in southern Ontario. However, this will be continually reviewed to assess where there is the greatest need.

The MLFTUs offer diverse options for live fire training to meet the unique needs of training including: a confined space rescue hatch; main level training rooms; different attack options; multi-prop fire simulators; and portable props.

The OFM will be deploying these units in 2021 and can have them delivered to any location. The MLFTUs will need to be booked in advance and will be available seasonally between May and October. Please contact the OFC Registrar at [ApplyOFC@ontario.ca](mailto:ApplyOFC@ontario.ca) to reserve a unit.



**Appendix 1**  
**Map of Ontario's 20 Current Regional Training Centres**



**Appendix 2**  
**Ontario Fire College – Geographic Coverage Areas**

<p><b>Andrew Blair – Eastern Ontario</b></p>	<ul style="list-style-type: none"> <li>• Northumberland</li> <li>• Peterborough</li> <li>• Hasting</li> <li>• Prince Edward</li> <li>• Lennox Addington</li> <li>• Frontenac</li> <li>• Lanark</li> <li>• Ottawa</li> <li>• Leeds and Grenville</li> <li>• Stormont, Dundas, and Glengarry</li> <li>• Prescott-Russell</li> </ul>
<p><b>Robert King – Central Ontario</b></p>	<ul style="list-style-type: none"> <li>• Kawartha Lakes</li> <li>• Haliburton</li> <li>• Muskoka</li> <li>• Simcoe</li> <li>• Grey</li> <li>• Bruce</li> <li>• Dufferin</li> </ul>
<p><b>Ken Benoit – GTA / Niagara</b></p>	<ul style="list-style-type: none"> <li>• Durham</li> <li>• York</li> <li>• Peel</li> <li>• Toronto</li> <li>• Halton</li> <li>• Hamilton</li> <li>• Niagara</li> </ul>
<p><b>Lyle Quan – Southwest Ontario</b></p>	<ul style="list-style-type: none"> <li>• Wellington</li> <li>• Waterloo</li> <li>• Brant</li> <li>• Haldimand</li> <li>• Norfolk</li> <li>• Oxford</li> <li>• Perth</li> <li>• Huron</li> <li>• Middlesex</li> <li>• Elgin</li> <li>• Lambton</li> <li>• Chatham-Kent</li> <li>• Essex</li> </ul>

<b>Grant Love – Northeast Ontario</b>	<ul style="list-style-type: none"> <li>• Renfrew</li> <li>• Nipissing</li> <li>• Parry Sound</li> <li>• North Bay</li> <li>• Temiskaming</li> </ul>
<b>Jamie Meyer – Rainbow / Algoma / Far Northeast</b>	<ul style="list-style-type: none"> <li>• Sudbury</li> <li>• Algoma (Wawa and East and South of Wawa)</li> <li>• Cochrane</li> <li>• Manitoulin</li> </ul>
<b>Jennifer Grigg – Northwest Ontario (Nipigon and East)</b>	<ul style="list-style-type: none"> <li>• Thunder Bay (Area East of Nipigon)</li> <li>• Algoma (Wawa and West and North of Wawa)</li> </ul>
<b>Tim Beebe – Northwest Ontario (Nipigon and West)</b>	<ul style="list-style-type: none"> <li>• Kenora</li> <li>• Rainy River</li> <li>• Thunder Bay (Area West of Nipigon)</li> </ul>





March 5, 2021

Hon. Caroline Mulroney, Minister of Transportation  
5th Floor 777 Bay Street  
Toronto, Ontario M7A 1Z8

Dear Madame Minister:

I am writing to you about two issues of continuing concern to the Town of Mono.

### **Highway Traffic Act Set Fines**

On June 12, 2019 I wrote to the Chief Justice of the Ontario Court of Justice (with a copy to your predecessor Jeff Yurek) asking that she exercise her jurisdiction to raise basic set fines for speeding offences under the Highway Traffic Act. The Chief Justice responded by letter on July 16, 2019 indicating that her authority is usually exercised in response to Ministerial requests. On September 10, 2019 I wrote to you regarding set fines.

Put simply, basic set fines for speeding have not been increased in over 20 years while speeding has become increasingly epidemic on our local roads. As stated in my last letter, *'the amount of the fines should be increased to a level that will provide a deterrent commensurate with the risk such offenders pose to the safety and wellbeing of other drivers and pedestrians.'* Fine revenue only partly offsets municipal policing costs. Moreover, a precipitous decline in fine revenues has occurred over the past year with the closure of POA courts due to COVID 19.

We would ask that your government consider an immediate increase in these fines.

### **Automated Speed Enforcement**

On January 20, 2020 our Deputy Mayor, John Creelman, spoke with you about problems with restrictive regulations that effectively rule out deployment of Automated Speed Enforcement (ASE) in all but urban areas. On January 21, 2020 Mr. Creelman followed up with a detailed email addressed to Ryan Amato of your staff setting forth the specific issues. He followed up with another email to Mr. Amato in late January of this year. We also raised this issue with you during a ROMA delegation meeting.

ASE is currently permitted only in designated Community Safety Zones and where the speed limit does not exceed 79 km/h. For us to consider its deployment in areas of our town and county, we would need to lower speed limits by 1 km/h and declare long stretches of rural roads as Community Safety Zones. Both propositions are clearly absurd and should be unnecessary.

P: 519.941.3599  
F: 519.941.9490

E: [info@townofmono.com](mailto:info@townofmono.com)  
W: [townofmono.com](http://townofmono.com)

347209 Mono Centre Road  
Mono, ON L9W 6S3

When the Province launched ASE, a spokesperson for the Premier's Office told the CBC *"Municipal governments are in the best position to determine what needs to be done in order to improve road safety on municipal roads."* We can't agree more. The Town of Mono was one of the first municipalities in Ontario to embrace contract policing with the OPP and augment its level of regular enforcement with an additional part-time officer dedicated primarily to traffic enforcement.

Last year, we contracted with the OPP for additional enforcement over and above what we've had now for 20 years. Despite this, speeding and reckless driving remain a chronic and disturbing reality on many of our roads. ASE should at least be a practical option to consider and not something out of reach due to regulations that work for Toronto but not the rest of Ontario.

Regards,



Laura Ryan  
Mayor

cc: Hon. Doug Downey, Attorney General  
Hon. Sylvia Jones, Solicitor General and MPP Dufferin-Caledon  
Mono Police Services Board  
Insp. Terry Ward, Detachment Commander, Dufferin OPP  
All Dufferin Municipalities  
Association of Municipalities of Ontario (AMO)

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347209 Mono Centre Road  
Mono, ON L9W 6S3

## Denise Holmes

---

**From:** tecia@white-water.ca  
**Sent:** Thursday, March 4, 2021 1:48 PM  
**To:** 'Grant Horan'  
**Cc:** Denise Holmes; rpost@nvca.on.ca; tracy.allison@ontario.ca  
**Subject:** Strada Aggregates - 2020 Annual Compliance Report - Shelburne Pits 1-4  
**Attachments:** Strada Shelburne\_FINAL\_complete.pdf

Good afternoon everyone,  
Please see the 2020 groundwater monitoring report for Strada Aggregates Shelburne Pits.

If you have any questions or concerns, please feel free to reach out at any time.

Regards,  
*Tecia White, M.Sc., P.Geo.*  
*Senior Hydrogeologist / President*  
*Whitewater Hydrogeology Ltd.*  
*Cell: 705-888-7064*



**Whitewater**  
Hydrogeology Ltd.



**2020 GROUNDWATER AND  
SURFACE WATER MONITORING  
REPORT**

**SHELBURNE PITS 1-4**

**Prepared for:  
Strada Aggregates**

**Date: March 2021**

Whitewater Hydrogeology Ltd  
Phone: 705.888.7064  
Email: [tecia@white-water.ca](mailto:tecia@white-water.ca)

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Appendix B:	Integrated Monitoring Program
Appendix C:	Water Quality Results

## 1.0 INTRODUCTION

Strada Aggregates Inc. (Strada) holds three adjacent Aggregate Resources Act (ARA) Category 3, Class A licenses from the Ministry of Natural Resources and Forestry (MNRF), which permit for the extraction of aggregate from above the water table. The sites referred to as the Bonnefield/Prince Pits, Melancthon Pit #1 and Melancthon Pit #2 and are located on Part Lot 11-14, Concession 3 Township of Melancthon. Each property has been integrated into one all-encompassing operation, which includes a closed loop washing facility, which is regulated under the Melancthon Pits #2 Ontario Water Resources Act, Section 34, Permit to Take Water (PTTW) No.: 3210-AKRL9C (Appendix A).

Whitewater Hydrogeology Ltd. (Whitewater) developed a groundwater and surface water monitoring program that was designed to effectively identify and characterize any cumulative influences on the groundwater and surface water regimes because of the extraction and washing operations that occur under the three ARA licenses. This program also integrated a hydro-period surface water monitoring requirement to be used in the annual natural environment impact assessment (NRSI, 2020).

This report has been prepared to comply with the Integrated Monitoring Program which is provided in Appendix B.

## 2.0 COMPLIANCE MONITORING PROGRAM

### 2.1 Groundwater Monitoring

In total, there are currently 28 groundwater well nests that monitor 52 discrete aquifer intervals in the overburden and bedrock aquifers at the Shelburne Pits. The groundwater monitoring program is provided in Table 1 and Figure 1. Monitors “A” are constructed above the geological contact between the sand and gravel unit and the Tavistock Till, if saturated. Otherwise, the screens are set above the geological contact between the Tavistock Till and the bedrock. Monitoring wells constructed in the bedrock contact aquifer system are identified as monitors “B”. Borehole records are provided in Appendix B.

The groundwater monitoring program focuses on the on-going monitoring of background conditions (up-gradient locations) in both the overburden and bedrock aquifers and the monitoring of potential influences from the aggregate operation on down-gradient locations. The groundwater monitoring program is provided in Table 2. Selected up-gradient and down-gradient wells are sampled for water quality. The water quality parameters for the semi-annual and annual sampling programs are provided below.

Semi-Annual Groundwater Quality Parameters	Annual Groundwater Quality Parameters
General Water Quality Parameters: pH, Conductivity, Alkalinity, Bicarbonate, Chloride, Calcium, Magnesium, Potassium, Sodium, Sulphate, Nitrate, Nitrite, Phosphorous, and Metals (dissolved).	Total Petroleum Hydrocarbons (F1-F4) BTEX, Total Oil and Grease



Table 1: Groundwater Monitoring Well Details

Well Nest and Old Monitor ID (for reference only)		New Well ID	Top of Casing	Ground Surface	Top of Screen	Bottom of Screen	Location	
			Metres Above Sea Level (masl)				Easting	Northing
<b>Melancthon Pit #1</b>								
MW1	MW1-A	<b>OW13-A</b>	507.13	506.44	495.1	492.1	561,147	4,887,604
	MW1-B	<b>OW13-B</b>	507.13	506.44	490.5	487.5	561,147	4,887,604
MW2	MW2-B	<b>OW14-B</b>	497.36	496.46	479.8	476.8	561,761	4,887,840
MW5	MW5-B	<b>OW15-B</b>	511.48	510.85	482.8	479.8	561,432	4,887,667
MW8	MW8-B	<b>OW16-B</b>	497.28	496.50	488.5	469.9	561,727	4,888,004
<b>Melancthon Pit #2</b>								
MW2	MW2-B	<b>OW2-A</b>	507.64	507.09	500.04	496.99	561,213	4,887,227
	MW2-C	<b>OW2-B</b>	507.64	507.09	484.54	481.49	561,213	4,887,227
MW3	MW3-B/C	<b>OW3-B</b>	504.61	504.11	494.36	491.31	561,272	4,886,849
MW4	MW4-B	<b>OW4-A</b>	506.54	505.84	500.97	497.92	561,355	4,886,426
	MW4-C	<b>OW4-B</b>	506.54	505.84	495.17	492.12	561,355	4,886,426
MW5	MW5-A	<b>OW5-A</b>	494.68	493.95	483.89	480.84	561,742	4,886,523
	MW5-C	<b>OW5-B</b>	494.54	493.94	486.32	483.27	561,743	4,886,525
MW6	MW6A	<b>OW6-A</b>	502.84	502.31	481.59	478.54	561,628	4,887,055
MW7	MW7-A	<b>OW7-A</b>	497.26	496.76	485.18	482.13	561,704	4,886,785
	MW7-C	<b>OW7-B</b>	497.26	496.76	478.56	466.26	561,704	4,886,785
MW13	MW13-A	<b>OW8-A</b>	505.99	504.89	500.39	492.89	561,282	4,887,057
MW9	MW9-A	<b>OW9-A</b>	496.77	496.20	492.85	489.80	561,806	4,887,468
MW10	MW10-B	<b>OW10-A</b>	495.79	495.19	479.04	475.99	561,628	4,887,239
MW11	MW11-A	<b>OW11-A</b>	495.90	495.20	493.7	487.70	561,571	4,886,477
	MW11-C	<b>OW11-B</b>	495.90	495.20	483.00	480.00	561,571	4,886,477
MW12	MW12-A	<b>OW12-A</b>	495.80	485.12	480.62	473.02	560,813	4,887,450
<b>Bonnefield Pit</b>								
-	-	<b>OW17-A</b>	503.60	502.10	481.67	478.63	561,472	4,887,382
-	-	<b>OW17-B</b>	503.60	502.10	477.69	474.67	561472	4,887,382
-	-	<b>OW18-A</b>	501.45	500.35	483.58	480.53	561,653	4,887,686
-	-	<b>OW18-B</b>	501.45	500.35	479.93	476.88	561,653	4,887,686
<b>Prince Pit</b>								
-	-	<b>OW19-A</b>	510.59	509.49	486.69	485.09	561,035	4,888,193
-	-	<b>OW19-B</b>	510.59	509.49	483.59	482.09	561,035	4,888,193
-	-	<b>OW20-B</b>	509.51	508.41	480.71	479.21	561,544	4,888,334
-	-	<b>OW21-B</b>	511.68	510.58	476.78	475.28	561,593	4,888,681
-	-	<b>OW22-B</b>	513.91	512.81	487.81	486.31	561,384	4,888,891
-	-	<b>OW23-B</b>	510.51	509.41	485.61	484.11	560,937	4,888,788

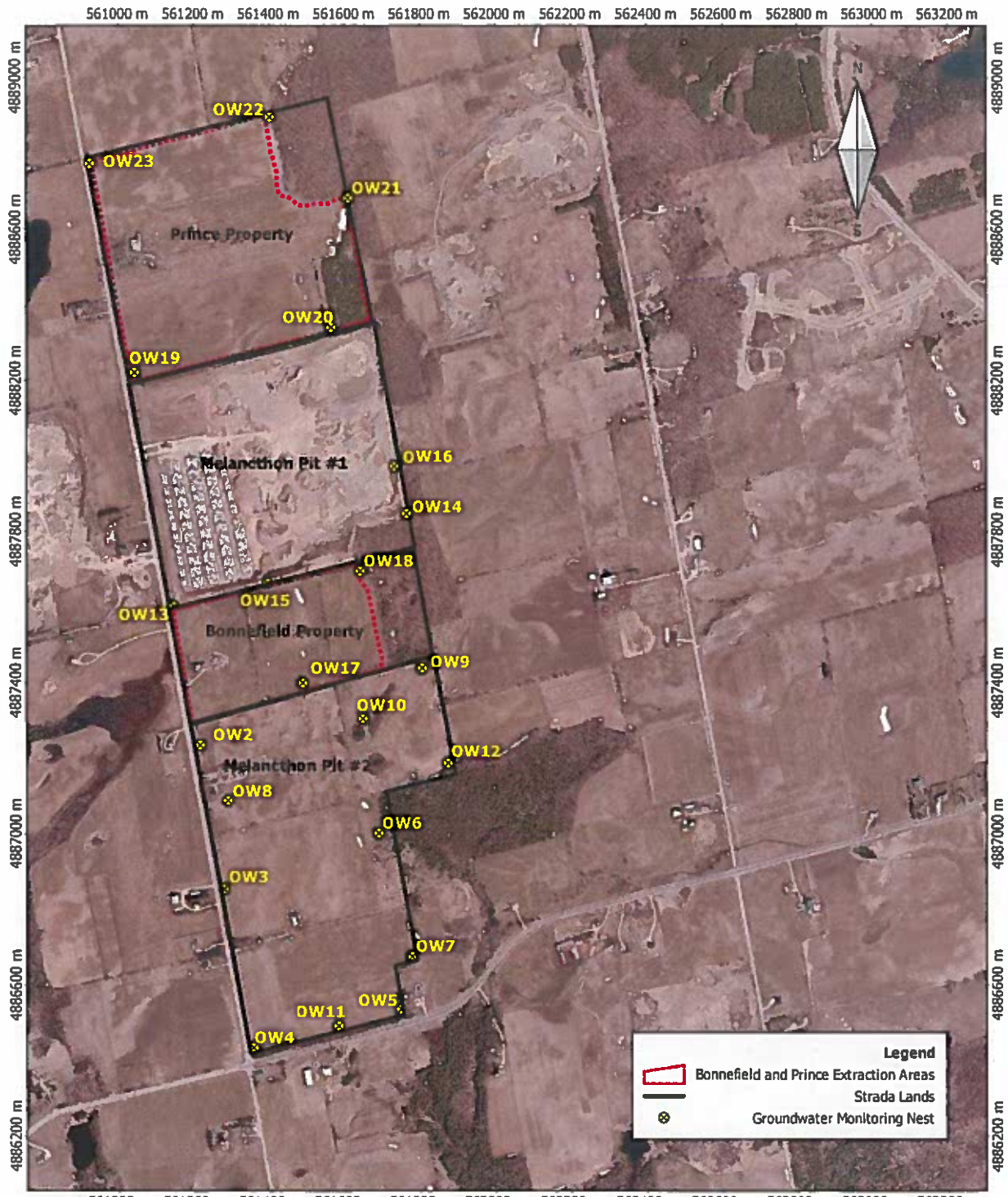


FIGURE 1: GROUNDWATER MONITORING LOCATIONS



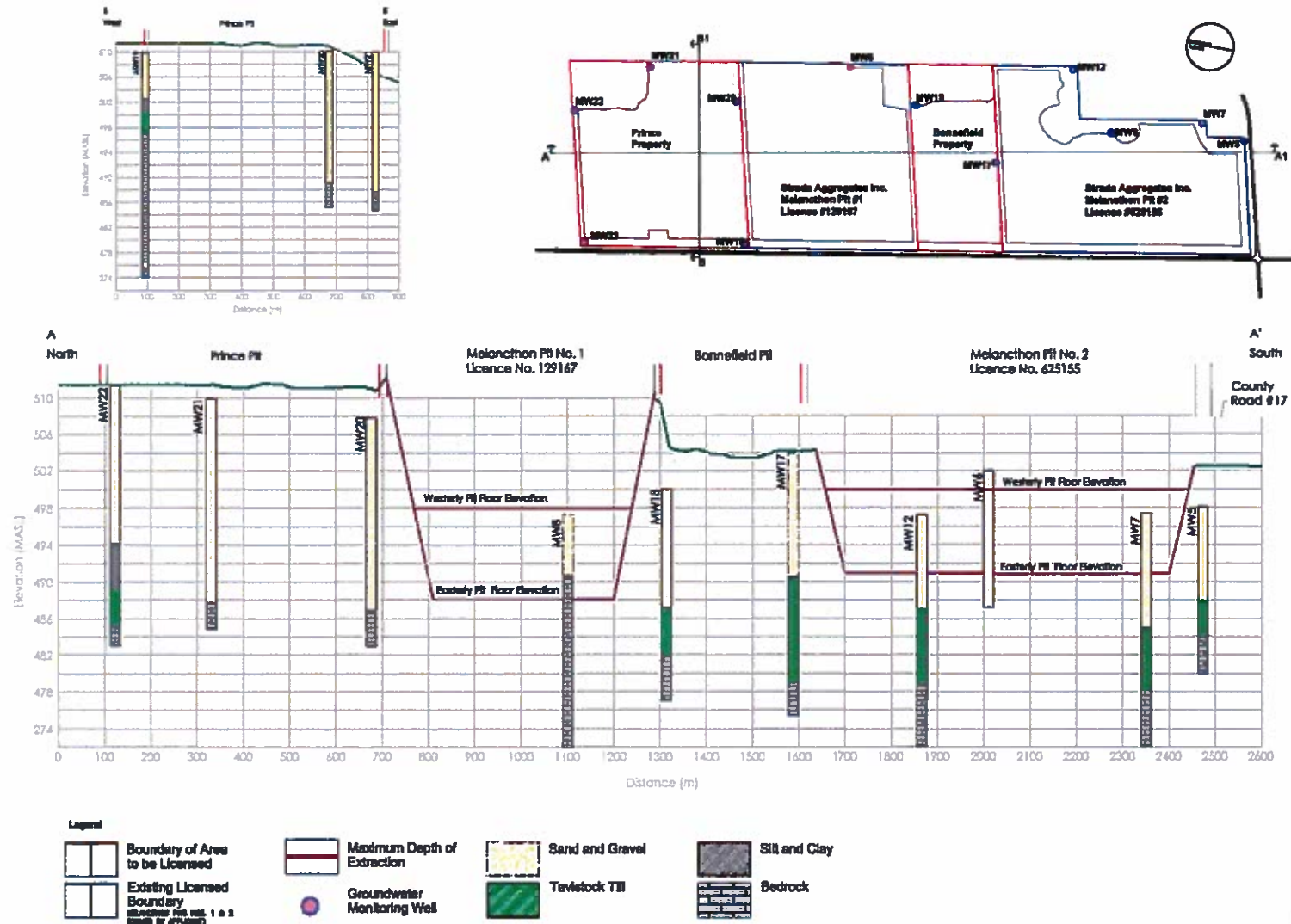


FIGURE 2: GEOLOGICAL CROSS-SECTION



Table 2: Groundwater Monitoring Network

Well ID	Water Levels		Water Quality	
	Monthly	Manual Water	Semi-Annual	Annual
OW2-A	X		X	
OW2-B	X		X	
OW3-B	X		X	
OW4-A	X		X	
OW4-B	X		X	
OW5-A	X		X	X
OW5-B	X		X	
OW6-A	X		X	X
OW7-A	X		X	X
OW7-B	X		X	
OW8-A	X		X	X
OW9-A	X		X	X
OW10-A	X		X	X
OW11-A	X		X	X
OW11-B	X		X	
OW12-A	X		X	X

Well ID	Water Levels		Water Quality	
	Monthly	Manual Water	Semi-Annual	Annual
OW13-A	X		X	
OW13-B	X		X	
OW14-B	X		X	X
OW15-B	X			
OW16-B	X		X	X
OW17-A	X			
OW17-B	X			
OW18-A	X		X	X
OW18-B	X		X	
OW19-A	X			
OW19-B	X		X	
OW20-B	X		X	X
OW21-B	X		X	x
OW22-B	X		X	
OW23-B	X		X	

## Note:

1. the collection of continuous water levels at selected groundwater monitoring locations is recommended.
2. OW15-B was destroyed in 2018
3. OW11-A, OW17-A and OW17-B was destroyed in 2019
- 4.

## 2.2 Surface Water Monitoring

Surface water elevation monitoring is completed during unfrozen conditions at 5 locations across the property. Surface water elevation monitoring has been on-going at the Wash Pond, North and South Ponds (Figure 1), since 2007. Two additional surface water monitoring stations to monitor the hydro-period in the wetland and vernal pool was completed in 2020 (Figure 1). Data have been assessed in conjunction with the groundwater monitoring data as part of the annual reporting requirement.

In addition, surface water quality is obtained from the North and South Ponds and analyzed for the same parameters as the groundwater wells.

## 2.3 2020 Water Taking Reporting

Strada is required to monitor the daily water takings under the PTTW, which includes recording the date, the volume of water taken on that date, and the rate at which it was taken. This data shall be submitted on or before March 31st every year to the ministry's Water Taking Reporting System.

### 3.0 HYDROLOGICAL / HYDROGEOLOGICAL EVALUATION

#### 3.1 2020 Water Takings

PTTW 3210-AKRL9C allows for the taking of 4,000 L/min for a maximum of 10 hours per day (a total of 2,400,00 L each day) to a maximum of 230 days between April 1 and November 16 of each year. In 2020, water was taken on 85 days between April 24<sup>th</sup> and November 12<sup>th</sup>. The maximum reported daily taking was 2,399,690 L. Strada remains in compliance with the water takings at the Melancthon Pit #2. The 2020 daily water takings from the Melancthon Pit #2 are summarized in Table 3.

TABLE 3: 2020 DAILY WATER TAKINGS

Date	Total Daily Taking (L)	Date	Total Daily Taking (L)	Date	Total Daily Taking (L)
24-Apr	594,245	12-Jun	548,825	18-Sep	832,700
27-Apr	348,220	16-Jun	1,672,970	21-Sep	923,540
28-Apr	2,399,690	17-Jun	1,786,520	23-Sep	1,510,215
29-Apr	2,187,730	18-Jun	1,722,175	24-Sep	1,415,590
30-Apr	2,130,955	22-Jun	753,215	28-Sep	2,074,180
4-May	2,320,205	23-Jun	1,324,750	2-Oct	1,218,770
5-May	1,850,865	24-Jun	738,075	5-Oct	628,310
6-May	2,312,635	13-Jul	2,399,690	6-Oct	987,885
7-May	2,342,915	14-Jul	1,763,810	15-Oct	590,460
8-May	885,690	15-Jul	1,854,650	16-Oct	980,315
11-May	639,665	16-Jul	1,794,090	20-Oct	1,033,305
12-May	2,006,050	17-Jul	1,180,920	21-Oct	1,532,925
13-May	2,399,690	28-Jul	404,995	22-Oct	1,449,655
14-May	2,305,065	29-Jul	552,610	23-Oct	1,063,585
15-May	1,052,230	30-Jul	980,315	27-Oct	2,399,690
19-May	991,670	31-Jul	1,052,230	28-Oct	2,350,485
20-May	2,399,690	4-Aug	446,630	30-Oct	1,264,190
21-May	2,399,690	5-Aug	503,405	2-Nov	809,990
22-May	1,975,770	6-Aug	707,795	3-Nov	2,134,740
25-May	2,399,690	20-Aug	423,920	4-Nov	2,229,365
26-May	2,399,690	1-Sep	1,623,765	5-Nov	2,316,420
27-May	2,399,690	2-Sep	1,040,875	6-Nov	897,045
28-May	2,399,690	4-Sep	1,203,630	9-Nov	2,074,180
29-May	1,654,045	8-Sep	1,737,315	10-Nov	1,866,005
5-Jun	620,740	10-Sep	832,700	11-Nov	2,036,330
8-Jun	1,366,385	11-Sep	1,336,105	12-Nov	2,399,690
9-Jun	1,169,565	14-Sep	2,195,300		
10-Jun	1,608,625	15-Sep	2,327,775		
11-Jun	817,560	17-Sep	2,142,310		

### 3.2 Groundwater Level Elevations

#### 3.2.1 Overburden Groundwater Elevations

The groundwater elevations in the vicinity of the Strada properties are strongly influenced by the bedrock topography and the buried bedrock valley system reported in the southeast portion of the study area. This feature has created a primarily downward gradient drawing water levels from the shallow overburden aquifer to the bedrock flow system. As a result, the overburden is dry in the north and north-western portion of Melancthon Pit #1 as well as beneath the Prince property. Permanent unsaturated conditions in the overburden are reported at OW3, OW14, OW16, OW19, OW20, and OW21, where the first water-bearing zone is found beneath the bedrock contact (bedrock aquifer).

Where saturated, the water levels in the overburden represent the water table. Generally, the water level trends are seasonal, with water levels peaking in the spring and decreasing over the warmer and drier summer months (Figure 3). Based on the continuous water level measurements at the 13 overburden monitoring wells, the water table ranges between a high of 501 masl to a low of 489.5 masl during the spring season. Over the following months, the water levels drop approximately 1 and 6 m.

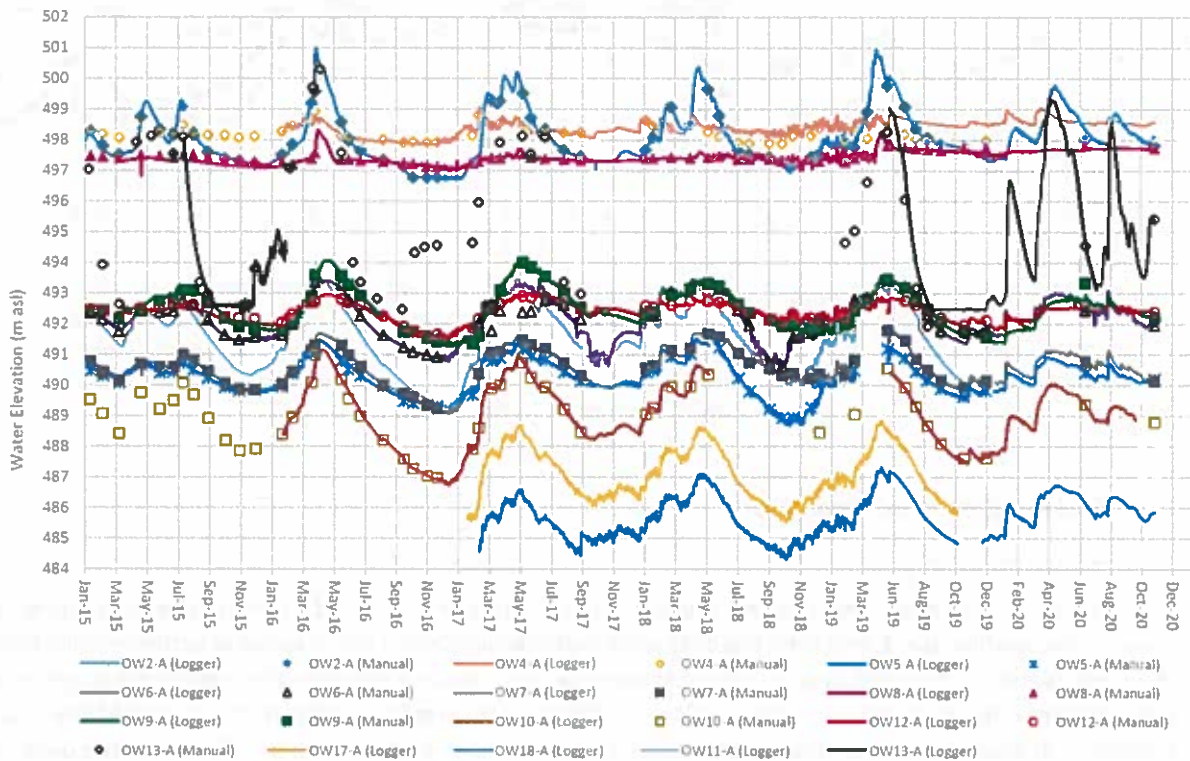


FIGURE 3: OVERBURDEN HYDROGRAPH



### 3.2.2 Bedrock Groundwater Elevations

Like the overburden water levels, the water levels in the bedrock aquifer show seasonal trends where water level highs are reached during the spring, followed by a slight decrease during the summer, fall, and winter months. The groundwater elevation in the upper bedrock system ranges between 498 masl and 477 masl during the dry periods. This increases to between 497 masl and 483 masl during the wet periods of the year.

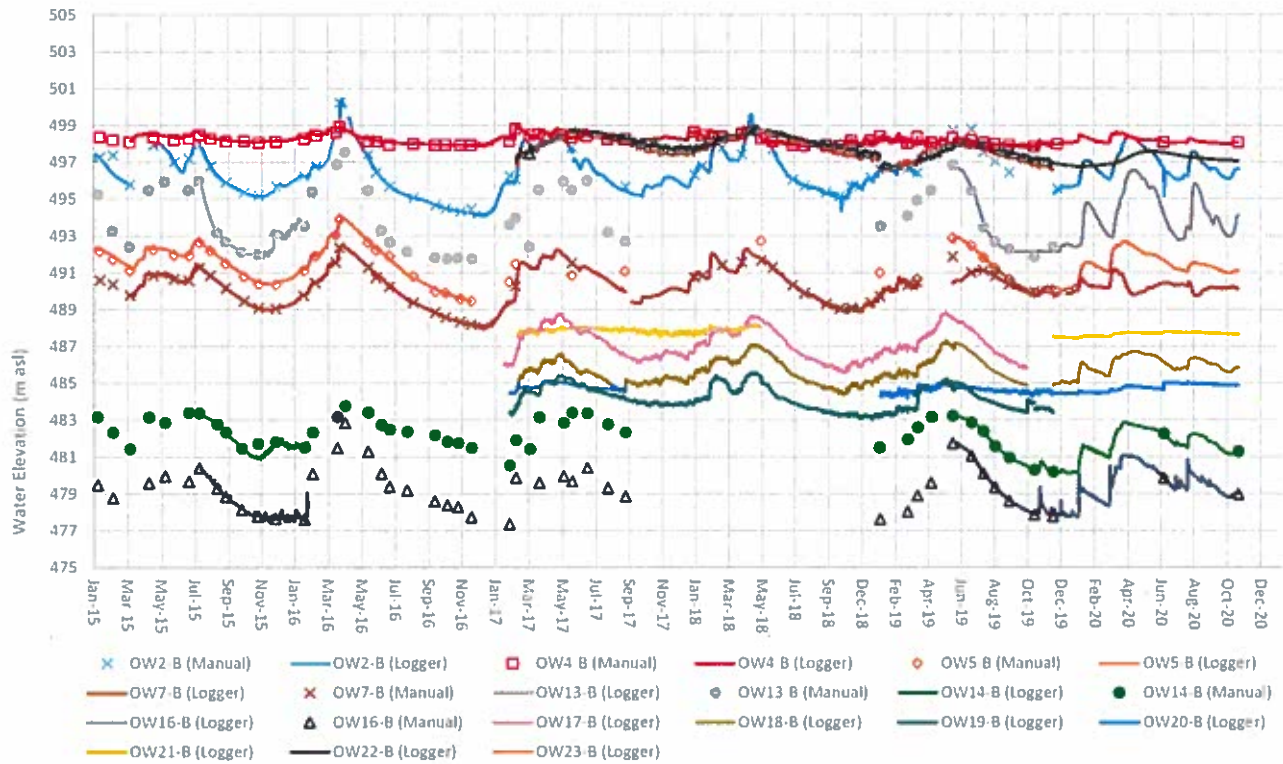


FIGURE 4: BEDROCK HYDROGRAPH

### 3.3 Surface Water Level Elevations

#### 3.3.1 Wash Pond

The wash pond is a closed-loop system where clean groundwater is pumped from a below water pond, run through the washing plant, and then the dirty wash water is discharged into a series of settling ponds before the clean water recirculated back to the freshwater pond. Figure 5 presents the continuous water levels collected from the Wash Pond. Water Levels are referenced to an arbitrary datum of 0 m at the time of data collection. In 2020, water was taken on 85 days between April 24<sup>th</sup> and November 12<sup>th</sup>. During the operation of the wash plant, water levels fluctuated in response to the performance of the closed-loop system. No drawdown resulting from the washing of aggregate is evident from the monitoring data.

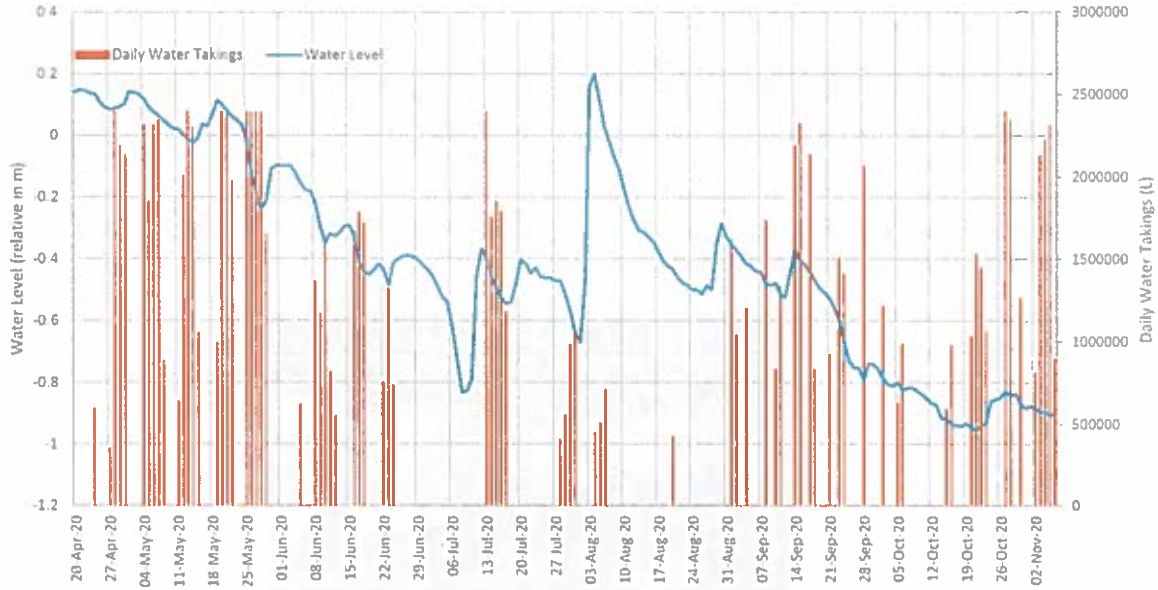


FIGURE 5: WASH POND WATER LEVELS AND DAILY WATER TAKINGS

3.3.2 North and South Ponds

The water level in the South Pond reached approximately 493.5 masl, while the water level in the North Pond peaked around 493.3 masl. Over the course of the monitoring period, water levels in the North and South Ponds remained within 493.5 and 492.5 masl (Figure 6). Both ponds have historically gone dry during periods of drought. However, in 2020 both ponds remained wet throughout the ice-free conditions. Dataloggers were removed in the late fall to limit damage to the devices.

To compare the surface water elevations to the local water table conditions, monitoring well 10-A has been plotted in Figure 6. The water table is located approximately 3-4 m below the surface water levels suggesting that the ponds are perched.

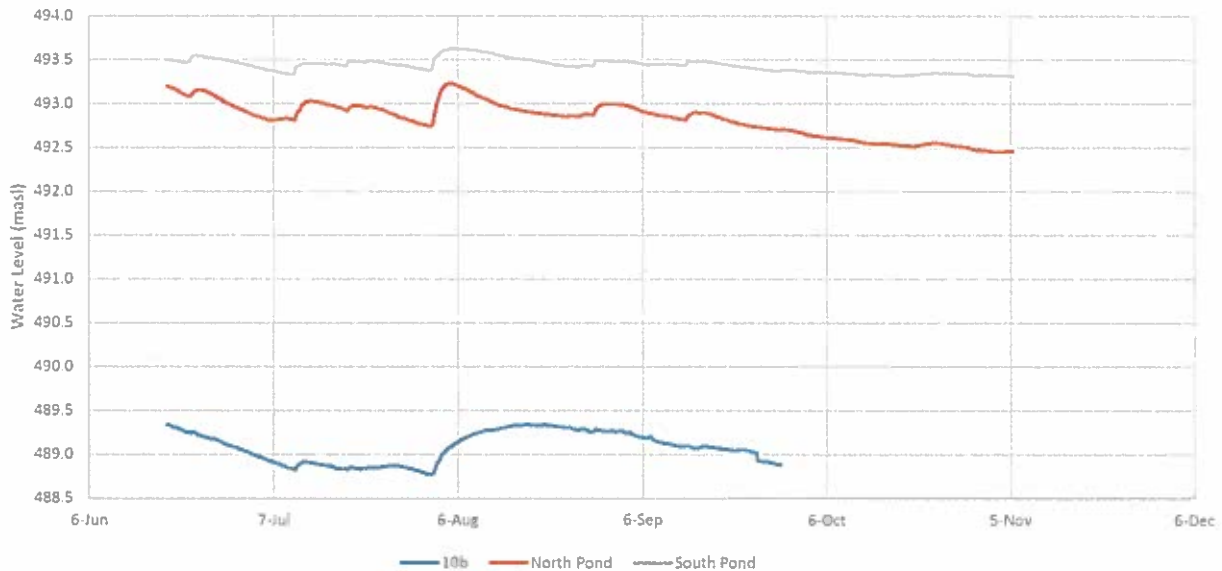


FIGURE 6: NORTH AND SOUTH POND WATER LEVELS

**3.3.3 Vernal Pool and Shallow Marsh Wetland**

Local surface water features include a small wetland and vernal pool, which are located within the forested area approximately 100 m from the proposed extraction boundary for the Bonnefield Pit. These features are perched approximately at least 1.5 m above the water table (Figure 8) and therefore isolated from the groundwater regime.

The vernal pool was “dry” in 2020 (Figure 7). The ground was saturated, but there was no standing water above ground surface during the monitoring period.



FIGURE 7: VERNAL POOL ON JUNE 18, 2020

The wetland marsh had standing water until October 10<sup>th</sup>, 2020 (Figure 8). Water levels from the wetland marsh are perched above the groundwater table, which is found at an elevation of approximately 488.5 masl during the monitoring period presented in Figure 8.

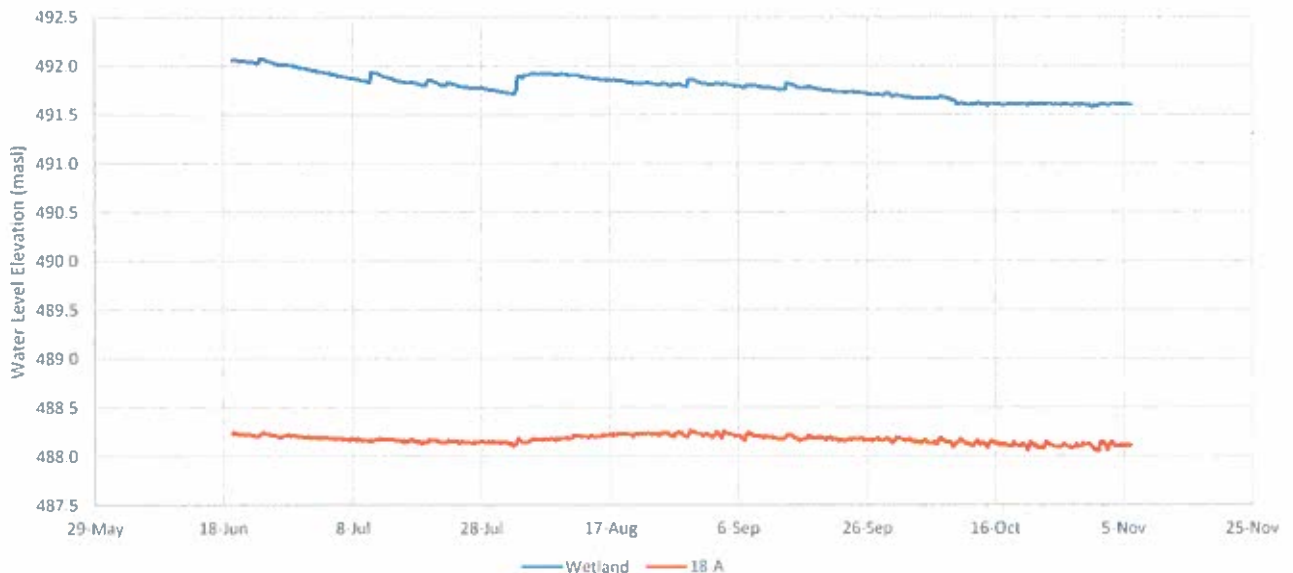


FIGURE 8: MARSH WETLAND WATER LEVELS



### 3.4 Water Quality

#### 3.4.1 Groundwater Quality

Groundwater quality sampling at the Shelburne Pits is completed on a semi-annual basis (spring and fall). In 2020, the monitoring program was completed on June 18<sup>th</sup> and November 6<sup>th</sup>. Samples were collected and analyzed for general water chemistry, volatile organic compounds (VOCs), and petroleum hydrocarbons (PHC).

The groundwater geochemistry at the site is characterized by relatively low concentrations for most parameters. This is illustrated by the fact many inorganic parameters have a concentration that is below laboratory detection limits.

In addition to the inorganic sampling discussed above, several petroleum hydrocarbon parameters were analyzed. Occasional detections of oil and grease were noted in the groundwater (1-3 mg/L; detection limit is 1 mg/L). This result is not considered to be a concern due to the extremely low concentration. In addition, detections of F4 were noted at OW21-B and OW20-B but remain under the guidelines for Ontario Regulation 153. Copies of the lab reports can be found in Appendix C.

#### 3.4.2 Surface Water Quality


Surface water quality sampling at the Shelburne Pit is also completed on a semi-annual basis (spring and fall). In 2020, the monitoring program was completed on June 18<sup>th</sup> and November 6<sup>th</sup>. Samples were collected and analyzed for general water chemistry.

The surface water quality from the North and South Pond exhibits a Ca-HCO<sub>3</sub> signature. Based on Gibbs (1970) classification of surface water, surface water chemistry in closed lakes (or wetlands) is controlled by rainfall, rock weathering, and/or evaporation and fractional crystallization. The primary source of HCO<sub>3</sub> in the North Pond is the generation in the soil zone from CO<sub>2</sub>, which is carried into the pond during runoff and bank erosion. The quality of the North and South Pond is typical of fresh surface water. Copies of the lab reports can be found in Appendix C.

## 4.0 CONCLUSIONS

The Shelburne Pits remain in compliance with the ARA and PTTW issued for the sites.

Tecia White, M.Sc., Geo.  
Senior Hydrogeologist / President  
Whitewater Hydrogeology Ltd.



**APPENDIX A**  
**PERMIT TO TAKE WATER**

PERMIT TO TAKE WATER  
Ground Water  
NUMBER 3210-AKRL9C

*Pursuant to Section 34.1 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:*

Strada Aggregates Inc.  
30 Floral Parkway  
Vaughan, Ontario  
L4K 4R1

*For the water taking from:* Shelburne South Pit - Wash Pond

*Located at:* Lot 11 and 12, Concession 3, Geographic Township of Melancthon  
Melancthon, County of Dufferin

*For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:*

**DEFINITIONS**

- (a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34.1, OWRA.
- (b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.
- (c) "Ministry" means Ontario Ministry of the Environment and Climate Change.
- (d) "District Office" means the Guelph District Office.
- (e) "Permit" means this Permit to Take Water No. 3210-AKRL9C including its Schedules, if any, issued in accordance with Section 34.1 of the OWRA.
- (f) "Permit Holder" means Strada Aggregates Inc..
- (g) "OWRA " means the *Ontario Water Resources Act*, R.S.O. 1990, c. O. 40, as amended.

*You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:*



## **TERMS AND CONDITIONS**

### **1. Compliance with Permit**

- 1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated September 18, 2016 and signed by Grant C. Horan, and all Schedules included in this Permit.
- 1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.
- 1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.
- 1.4 This Permit is not transferable to another person.
- 1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.
- 1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.
- 1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

### **2. General Conditions and Interpretation**

#### **2.1 Inspections**

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act*, R.S.O. 1990, the *Pesticides Act*, R.S.O. 1990, or the *Safe Drinking Water Act*, S. O. 2002.

#### **2.2 Other Approvals**

The issuance of, and compliance with this Permit, does not:

- (a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act*, and the *Environmental Protection Act*, and any regulations made thereunder; or
- (b) limit in any way any authority of the Ministry, a Director, or a Provincial Officer, including the authority to require certain steps be taken or to require the Permit Holder to furnish any further information related to this Permit.

### 2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

- (a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or
- (b) acceptance by the Ministry of the information's completeness or accuracy.

### 2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

### 2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

### 2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

## 3. Water Takings Authorized by This Permit

### 3.1 Expiry

This Permit expires on **March 31, 2027**. No water shall be taken under authority of this Permit after the expiry date.

### 3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

**Table A**

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1	Wash Pond	Pond Dugout	Aggregate Washing	Industrial	4,000	10	2,400,000	230	17 561589 4887164
						<b>Total Taking:</b>	2,400,000		

3.3 Water taking under the authorization of this Permit shall only occur to a maximum of 230 days between April 1 and November 16 of each year from date of issue to March 31, 2027.

3.4 This Permit is issued for the sole purpose of washing gravel in a closed loop system where the majority of the water is recirculated and does not include dust suppression.

3.5 Prior to taking of water under this Permit, the Permit Holder shall ensure that any and all applicable permits or authorizations are obtained from Federal and Provincial Agencies having legislative mandates in water resources management.

**4. Monitoring**

4.1 Under section 9 of O. Reg. 387/04, and as authorized by subsection 34(6) of the *Ontario Water Resources Act*, the Permit Holder shall, on each day water is taken under the authorization of this Permit, record the date, the volume of water taken on that date and the rate at which it was taken. The daily volume of water taken shall be measured by a flow meter or calculated in accordance with the method described in the application for this Permit, or as otherwise accepted by the Director. The Permit Holder shall keep all records required by this condition current and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request. The Permit Holder, unless otherwise required by the Director, shall submit, on or before March 31<sup>st</sup> in every year, the records required by this condition to the ministry's Water Taking Reporting System.

4.2 The Permit Holder shall monitor water levels at the following monitoring points as described below:

Well No. /Pond Name	Water Level Elevations	
	Continuous Datalogger (4-hour intervals)	Monthly Manuals



Wash Pond (during unfrozen conditions)	X	X
OW2-A	X	X
OW2-B	X	X
OW2-C	X	X
OW3-A	X	X
OW3-B	X	X
OW4-A	X	X
OW4-B	X	X
OW4-C	X	X
OW5-A	X	X
OW5-B	X	X
OW5-C	X	X
OW6-A	X	X
OW7-A	X	X
OW7-C	X	X
OW8-A	X	X
OW8-B	X	X
OW9-A	X	X
OW10-A	X	X
OW10-B	X	X
OW11-A	X	X
OW11-C	X	X
OW12-A	X	X
OW13-A	X	X
North Pond	X	X
South Pond	X	X

- 4.3 The Permit Holder shall submit to the Director by March 31, 2019, a report with the monitoring data collected under Sections 4.1 and 4.2 of this Permit during the first two years of the aggregate washing operation, along with its interpretation; the report should include an assessment of the impact of the water taking, if any, on the surface water features (wetland) adjacent to the Wash Pond. The report should also include recommendations on modifications to the water taking and/or to the monitoring program as described in this Permit.

**5. Impacts of the Water Taking**

**5.1 Notification**

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

**5.2 For Groundwater Takings**

If the taking of water is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a Permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected, a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of doing so.

If permanent interference is caused by the water taking, the Permit Holder shall restore the water supplies of those permanently affected.

**6. Director May Amend Permit**

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act*, Section 100 (4).

*The reasons for the imposition of these terms and conditions are as follows:*

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.
2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.
3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.



*In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Environmental Commissioner, Environmental Bill of Rights, R.S.O. 1993, Chapter 28, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:*

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

*In addition to these legal requirements, the Notice should also include:*

- a. The name of the appellant;
- b. The address of the appellant;
- c. The Permit to Take Water number;
- d. The date of the Permit to Take Water;
- e. The name of the Director;
- f. The municipality within which the works are located;

*This notice must be served upon:*

*The Secretary  
Environmental Review Tribunal  
655 Bay Street, 15th Floor  
Toronto ON  
MSG 1E5  
Fax: (416) 326-5370  
Email:  
ERTTribunalsecretary@ontario.ca*

*AND*

*The Environmental Commissioner  
1075 Bay Street  
6th Floor, Suite 605  
Toronto, Ontario M5S 2W5*

*AND*

*The Director, Section 34.1,  
Ministry of the Environment and  
Climate Change  
12th Floor  
119 King St W  
Hamilton ON L8P 4Y7  
Fax: (905) 521-7820*

*Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:*

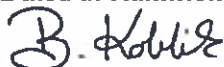
by Telephone at  
(416) 212-6349  
Toll Free 1(866) 448-2248

by Fax at  
(416) 326-5370  
Toll Free 1(844) 213-3474

by e-mail at  
www.ert.gov.on.ca

*This instrument is subject to Section 38 of the Environmental Bill of Rights that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal for 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.*

Dated at Hamilton this 8th day of May, 2017.



Belinda Koblik  
Director, Section 34.1  
Ontario Water Resources Act , R.S.O. 1990

### **Schedule A**

This Schedule "A" forms part of Permit To Take Water 3210-AKRL9C, dated May 8, 2017.

1. Hydrogeological Assessment in Support an OWRA Sec 34 PTTW, Shelburne South Pit, dated December, 2016, prepared by Whitewater Hydrogeology Ltd. for Strada Aggregates.
2. 2016 Compliance Groundwater Monitoring Report, Shelburne South Pit, dated January 2017, prepared by Whitewater Hydrogeology Ltd. for Strada Aggregates.

**APPENDIX B**  
**INTEGRATED MONITORING PROGRAM**



# Strada Aggregates Melancthon Pits – Integrated Monitoring Plan

## February 2018

### Background

The Strada Melancthon Pits consist of:

- Pit #1 (Licence # 129167) located at West Half of Lot 13, Concession 3 O.S., licenced in 2004;
- Pit #2 (Licence # 625155) located at West Half of Part Lot 11 and 12, Concession 3 O.S., licenced in 2012; and
- The proposed Bonnefield and Prince extension lands located at Part of West Half of Lots 12 and 14, Concession 3 O.S.

The proposed Prince and Bonnefield extensions will be fully integrated with existing aggregate operations at Melancthon Pits #1 and #2. The existing operations require monitoring and annual reporting with respect to the water table, water quality and the natural environment. Hydrogeological and natural environment investigations for the proposed extension have recommended expansion of the monitoring programs to include the additional lands. The Ministry of Natural Resources and Forestry (MNRF) has requested an Integrated Monitoring Plan to consolidate the existing and proposed monitoring requirements.

### Natural Environment

#### *Amphibian Monitoring*

Annual monitoring of the wetlands for the presence of breeding amphibians was originally recommended in the Level 2 Natural Environment Assessment (NEA) report for Melancthon Pit #2, as well as surface and groundwater monitoring to assess water level fluctuations (NRSI 2010). The implementation of an amphibian monitoring program was further requested by the Nottawasaga Valley Conservation Authority (NVCA) and Michalski Nielson in their review of the Level 2 NEA report.

NRSI has undertaken annual amphibian monitoring at the wetlands located adjacent to Melancthon Pit #2 since 2013. Initial amphibian call surveys were undertaken in 2009.

Of the two proposed pit areas, only the Bonnefield Pit property contains wetland habitat (outside the extraction area). Surveys completed in 2016 recorded the presence of breeding amphibians. To ensure that the proposed pit does not negatively impact the wetland and its amphibian breeding habitat function it was recommended that the existing amphibian monitoring program for Melancthon Pit #2 be expanded to include the Bonnefield Pit to maximize efficiencies, and achieve consistency in methodology and data comparability.

Annual amphibian call surveys that were initiated at Melancthon Pit #2 will continue for the duration of the lifespan of the pit, as was originally proposed. Beginning in 2018, NRSI will initiate annual monitoring of the Bonnefield property wetland which will also be undertaken for the lifespan of that pit. Annual monitoring of the Bonnefield Pit wetland will build on NRSI's 2016 amphibian call surveys on the property

to inform the NEA report. See **Map 1** for the location of the existing monitoring stations at Melancthon Pit #2 in addition to the single monitoring station at the Bonnefield Pit wetland. Since no amphibian calling activity was documented within the Bonnefield property vernal pool during 2016 surveys, despite the presence of standing water, additional long-term monitoring of the vernal pool is not included in this plan. However, if amphibian calling activity is heard within the vernal pool during future monitoring years, an additional monitoring station will be established at this location and will be monitored annually.

Proposed monitoring at the Bonnefield Pit wetland will document additional baseline data on breeding amphibian species presence and relative abundance prior to aggregate extraction, followed by multiple years of operational-stage monitoring. As has been completed for Melancthon Pit #2, long-term data will be collected to identify trends or other indicators that will be used to assess any negative occurrences to amphibian breeding activity that may be the result of pit activities. The amphibian survey data collected at the Bonnefield and Melancthon Pit #2 sites will also be compared to look for spatial trends, or any similarities or differences in survey results over time that may indicate presence of localized or widespread pit operation effects.

In accordance with survey methodology completed to date, the monitoring program will utilize the Marsh Monitoring Program methodology (BSC 2009), which records amphibian call activity during 3-minute call counts. Counts will be conducted once per month during each of April, May and June in conjunction with appropriate night time air temperatures and wind speeds. If the provincial Species of Conservation Concern Western Chorus Frog (*Pseudacris triseriata*) is detected during any monitoring event, additional monitoring events may be added to fully document the abundance and distribution of this species within the surveyed wetlands.

A brief summary report, combining the results collected from the Melancthon Pit #2 site with the Bonnefield Pit site, will be prepared each year which outlines the findings of the annual monitoring. This will include an assessment of the surface water and groundwater monitoring data to be collected by Whitewater Hydrogeology within both properties (Whitewater Hydrogeology 2017) as it relates to amphibian breeding conditions. Each annual report will be provided to Strada for their review, and then to the NVCA and the Township of Melancthon.

#### *Woodland Buffer*

The deciduous woodland communities within the Bonnefield and Prince extension lands will be retained outside the proposed limit of extraction. 10 metre woodland buffers have been recommended to protect these features and mitigate impacts from adjacent extraction activities. The woodland buffers will be allowed to re-naturalize and will be supplemented with targeted native species plantings.

The woodland buffers will be inspected during pit operations to ensure disturbances are not occurring. The health and survival of buffer planting will also be inspected.

#### **Hydrogeology**

Compliance groundwater and surface water monitoring has been occurring at both Melancthon Pit #1 and #2 since 2001 and 2007, respectively. In addition, baseline groundwater monitoring commenced in

2017 at the Bonnefield and Prince properties. In total, there are currently 28 groundwater well nests that monitor 52 discrete aquifer intervals in the overburden and bedrock aquifers. The Melancthon Pit #1 and #2 groundwater monitoring programs were developed to characterize the local groundwater conditions at each individual property and were based on two operating pits (two scale houses, two fuel storage areas, and multiple crushing and processing operations). The proposed licensing of the Bonnefield and Prince properties provides an opportunity to not only streamline operations by eliminating the need to operate as individual pits but to develop a revised groundwater monitoring program. The revision would remove redundancies in the monitoring network and reporting allowing for an opportunity to complete an accumulative impact assessment from the Strada properties.

The revised groundwater monitoring program is shown on **Map 2**. The revised program consists of 22 groundwater well nests that monitor 36 discrete aquifer intervals in the overburden and bedrock aquifers.

The proposed program focuses on the on going monitoring of background conditions (up gradient locations) in both the overburden and bedrock aquifers and the monitoring of potential influences from the aggregate operation on down gradient locations. The proposed groundwater monitoring program is provided in **Table 1**. Selected up gradient and down gradient wells will be sampled for water quality. The water quality parameters for the semi annual (spring and fall) and annual (spring) sampling programs are provided in **Table 2**.

Surface water elevation monitoring has been on-going at the North and South Ponds (Map 2), since 2007. Two additional surface water monitoring stations to monitor the hydro-period in the wetland and vernal pool (Map 2) will commence in 2018. This monitoring will consist of the collection of continuous water level data during non-frozen conditions. Data will be assessed in conjunction with the groundwater monitoring data as part of the annual reporting requirement.

*Table 1 – Proposed Groundwater Monitoring Network*

Well ID	Water Levels		Water Quality	
	Monthly	Manual Water	Semi Annual	Annual
OW2-A	X		X	
OW2-B	X		X	
OW3-B	X		X	
OW4-A	X		X	
OW4-B	X		X	
OW5-A	X		X	X
OW5-B	X		X	
OW6-A	X		X	X
OW7-A	X		X	X
OW7-B	X		X	
OW8-A	X		X	X
OW9-A	X		X	X
OW10-A	X		X	X
OW11-A	X		X	X
OW11-B	X		X	
OW12-A	X		X	X

Well ID	Water Levels		Water Quality	
	Monthly	Manual Water	Semi Annual	Annual
OW13-A	X		X	
OW13-B	X		X	
OW14-B	X		X	X
OW15-B	X			
OW16-B	X		X	X
OW17-A	X			
OW17-B	X			
OW18-A	X		X	X
OW18-B	X		X	
OW19-A	X			
OW19-B	X		X	
OW20-B	X		X	X
OW21-B	X		X	X
OW22-B	X		X	
OW23-B	X		X	

Note: the collection of continuous water levels at selected groundwater monitoring locations is recommended.



Table 2 – Proposed Water Quality Parameters

Semi-Annual Groundwater Quality Parameters	Annual Groundwater Quality Parameters
General Water Quality Parameters: pH, Conductivity, Alkalinity, Bicarbonate, Chloride, Calcium, Magnesium, Potassium, Sodium, Sulphate, Nitrate, Nitrite, Phosphorous, and Metals (dissolved).	Total Petroleum Hydrocarbons (F1-F4) BTEX, Total Oil and Grease

It is recommended that a single annual groundwater monitoring report for the Melancthon Pits #1 and 2, as well as the proposed Bonnefield and Prince Pits be prepared and submitted to the MNRF, Township of Melancthon and NVCA prior to March 31<sup>st</sup> of each year and include the monitoring data for the 12 month period ending December 31<sup>st</sup> of the previous year. The report shall include, but not be limited to, the following:

1. Monitoring data collected as per Table 1 and Table 2;
2. Data in tabulated and graphical formats;
3. Interpretation of the collected data including discussions of any observed trends in groundwater levels and groundwater quality (analytical) results;
4. Recommendations on and justification for the need for make changes to monitoring locations, monitoring frequency, type of monitoring, pumping patterns and/or the need for mitigation, and
5. Summary and documentation of any water well complaint(s) and their resolution(s).



Map 1  
**Melancthon #2 and  
 Bonnefield Pits**  
**Anuran Monitoring Stations**  
 NATURAL RESOURCE SOLUTIONS INC.  
 44-45, Toronto and Huron Streets  
 Date: November 7, 2017  
 Project: NR2017-08  
 Scale: 1:3,000  
 NAD83 - UTM Zone 17

**Legend**

- Subject Property
- Anuran Monitoring Station (ANR)
- ⇨ Direction of Survey
- Surveyed Wetland Boundary
- Wetland (Boundaries Approximate)

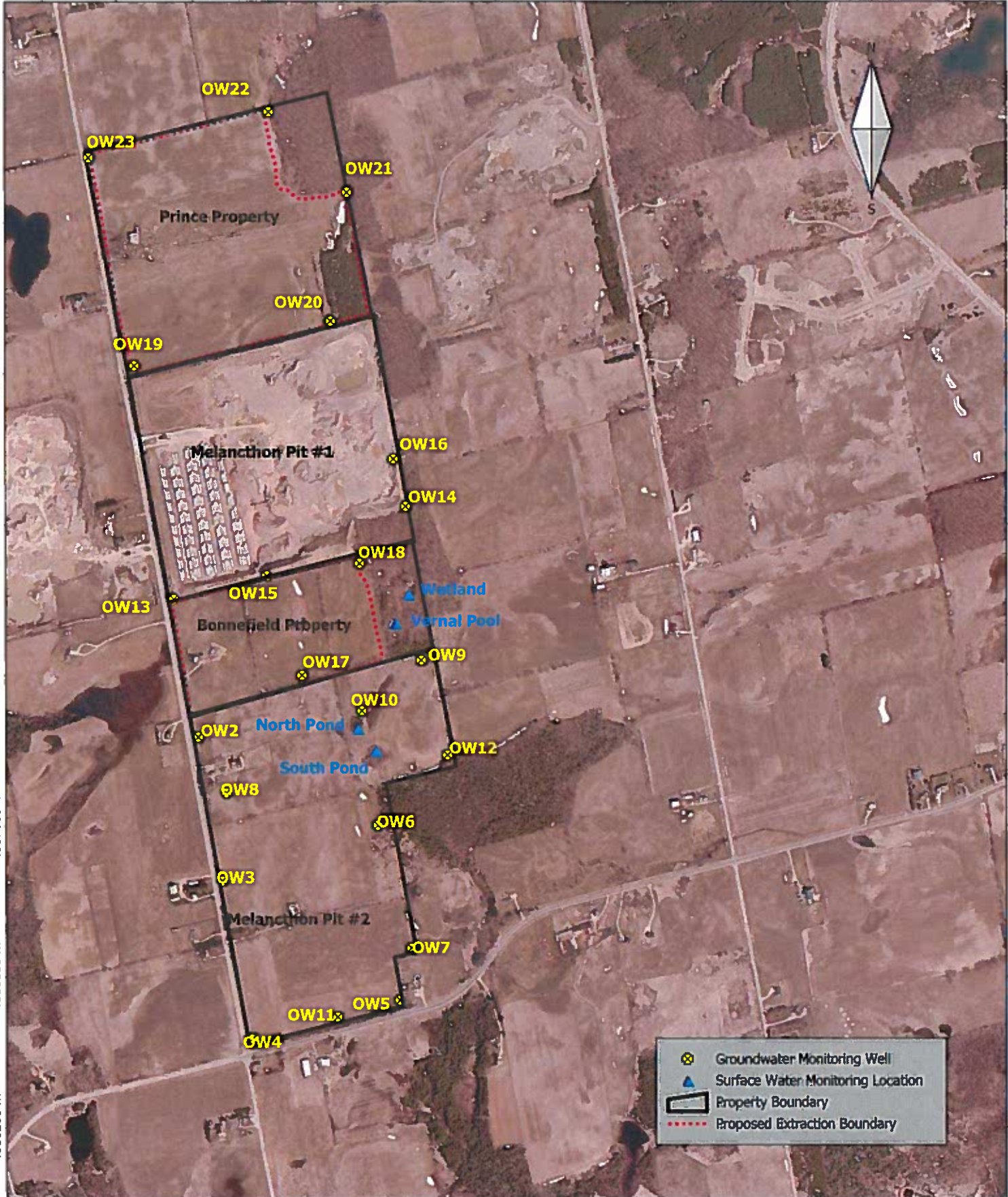
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560800 m 561000 m 561200 m 561400 m 561600 m 561800 m 562000 m 562200 m 562400 m 562600 m 562800 m 563000 m 563200 m

4889000 m  
4888600 m  
4888200 m  
4887800 m  
4887400 m  
4887000 m  
4886600 m  
4886200 m

4889000 m  
4888600 m  
4888200 m  
4887800 m  
4887400 m  
4887000 m  
4886600 m  
4886200 m



-  Groundwater Monitoring Well
-  Surface Water Monitoring Location
-  Property Boundary
-  Proposed Extraction Boundary

560800 m 561000 m 561200 m 561400 m 561600 m 561800 m 562000 m 562200 m 562400 m 562600 m 562800 m 563000 m 563200 m



**APPENDIX C**  
**GROUNDWATER AND SURFACE WATER**  
**QUALITY**



**TESTMARK Laboratories Ltd.**

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## CERTIFICATE OF ANALYSIS

Client:	Tecia White	Work Order Number:	416516
Company:	Whitewater Hydrogeology Ltd.	PO #:	
Address:	80 Chamberlain Cres Collingwood, ON, L9Y 0C8	Regulation:	Information not provided
Phone:	(705) 888-7064	Project #:	Strada Shedburne Semi-Annual Groundwater
Email:	tecia@white-water.ca	DWS #:	
		Sampled By:	Tecia White
Date Order Received:	11/9/2020	Analysis Started:	11/10/2020
Arrival Temperature:	18 °C	Analysis Completed:	11/16/2020

### WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OW4B	1596662	Ground Water	None		11/6/2020	
OW5A	1596663	Ground Water	None		11/6/2020	
OW5B	1596664	Ground Water	None		11/6/2020	
OW6A	1596665	Ground Water	None		11/6/2020	
OW7A	1596666	Ground Water	None		11/6/2020	
OW7B	1596667	Ground Water	None		11/6/2020	
OW8A	1596668	Ground Water	None		11/6/2020	
OW9A	1596669	Ground Water	None		11/6/2020	
OW10A	1596670	Ground Water	None		11/6/2020	
OW11B	1596671	Ground Water	None		11/6/2020	
OW12A	1596672	Ground Water	None		11/6/2020	
OW13A	1596673	Ground Water	None		11/6/2020	
OW13B	1596674	Ground Water	None		11/6/2020	
OW14B	1596675	Ground Water	None		11/6/2020	
OW16B	1596676	Ground Water	None		11/6/2020	
OW20B	1596677	Ground Water	None		11/6/2020	
OW21B	1596678	Ground Water	None		11/6/2020	



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## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OW22B	1596679	Ground Water	None		11/6/2020	
OW23B	1596680	Ground Water	None		11/6/2020	
North Pond	1596874	Ground Water	None		11/6/2020	
South Pond	1596875	Ground Water	None		11/6/2020	

### METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Alkalinity (A1.0)	Mississauga	Determination of Alkalinity by Titration	Modified from APHA-2320B
Anions Water (mg/L by IC) (A5)	Mississauga	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Carbonate (A94)	Mississauga	Determination of Carbonate and Bi-Carbonate	Modified from APHA-2320
Conductivity of Water (A12)	Mississauga	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
ICPMS Dis. Water (A13)	Mississauga	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS	Modified from SW846-6020
ICPMS Dis. Water FF (A13)	Mississauga	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020
ICPMS Reg. Water (A13)	Mississauga	Determination of Metals in Water by ICP/MS	Modified from SW846-6020
pH of Water (A2.0)	Mississauga	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
TP Water (A23.2)	Kirkland Lake	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,

This report has been approved by:

Marc Creighton  
Laboratory Director





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

**WORK ORDER RESULTS**

Sample Description	OW4B		OW5A		OW5B		OW6A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596662		1596663		1596664		1596665		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Chloride	28.7	0.2	57.5	0.2	45.8	0.2	19.7	0.2	mg/L
Nitrate (as N)	5.78	0.05	3.96	0.05	0.08	0.05	0.95	0.05	mg/L
Nitrite (as N)	0.12	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	8.0	0.3	13.5	0.3	5.2	0.3	18.7	0.3	mg/L

Sample Description	OW7A		OW7B		OW8A		OW9A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596666		1596667		1596668		1596669		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Chloride	9.5	0.2	1.5	0.2	28.9	0.2	2.6 [2.6]	0.2	mg/L
Nitrate (as N)	0.48	0.05	0.18	0.05	7.69	0.05	3.50 [3.45]	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05 [<0.05]	0.05	mg/L
Sulphate	21.1	0.3	11.9	0.3	8.7	0.3	4.8 [4.8]	0.3	mg/L

Sample Description	OW10A		OW11B		OW12A		OW13A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596670		1596671		1596672		1596673		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Chloride	6.2	0.2	32.9	0.2	1.7	0.2	9.7	0.2	mg/L
Nitrate (as N)	0.86	0.05	<0.05	0.05	1.97	0.05	0.22	0.05	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW10A		OW11B		OW12A		OW13A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596670		1596671		1596672		1596673		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	21.5	0.3	<0.3	0.3	2.9	0.3	64.4	0.3	mg/L

Sample Description	OW13B		OW14B		OW16B		OW20B		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596674		1596675		1596676		1596677		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Chloride	7.8	0.2	2.0	0.2	3.0	0.2	1.6	0.2	mg/L
Nitrate (as N)	1.46	0.05	2.38	0.05	1.30	0.05	2.82	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	8.3	0.3	6.0	0.3	7.9	0.3	5.0	0.3	mg/L

Sample Description	OW21B		OW22B		OW23B		North Pond		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596678		1596679		1596680		1596874		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Chloride	1.6	0.2	15.2	0.2	13.7	0.2	5.1	0.2	mg/L
Nitrate (as N)	0.70	0.05	8.20	0.05	6.51	0.05	0.07	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	10.0	0.3	33.8	0.3	16.5	0.3	2.4	0.3	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

<b>Sample Description</b>	South Pond		
<b>Sample Date</b>	11/6/2020 12:00 AM		
<b>Lab ID</b>	1596875		
<b>Anions</b>	<b>Result</b>	<b>MDL</b>	<b>Units</b>
Chloride	1.2	0.2	mg/L
Nitrate (as N)	<0.05	0.05	mg/L
Nitrite (as N)	<0.05	0.05	mg/L
Sulphate	0.5	0.3	mg/L

<b>Sample Description</b>	OW4B		OW5A		OW5B		OW6A		
<b>Sample Date</b>	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
<b>Lab ID</b>	1596662		1596663		1596664		1596665		
<b>General Chemistry</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Units</b>
Bicarbonate (Calc.)	390	1	275	1	284	1	137	1	mg/L as CaCO3
Carbonate (Calc.)	2	1	1	1	2	1	1	1	mg/L as CaCO3
Conductivity	725	1	788	1	721	1	400	1	µS/cm
M-Alkalinity (pH 4.5)	392	2	276	2	286	2	138	2	mg/L as CaCO3
pH	7.73	N/A	7.74	N/A	7.92	N/A	7.92	N/A	pH
Total Phosphorus (as P)	0.015	0.002	0.017	0.002	0.171	0.002	0.009	0.002	mg/L

<b>Sample Description</b>	OW7A		OW7B		OW8A		OW9A		
<b>Sample Date</b>	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
<b>Lab ID</b>	1596666		1596667		1596668		1596669		
<b>General Chemistry</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Units</b>
Bicarbonate (Calc.)	177	1	71	1	283	1	208	1	mg/L as CaCO3





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW7A		OW7B		OW8A		OW9A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596666		1596667		1596668		1596669		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Carbonate (Calc.)	2	1	<1	1	2	1	2	1	mg/L as CaCO <sub>3</sub>
Conductivity	436	1	163	1	721	1	458	1	µS/cm
M-Alkalinity (pH 4.5)	179	2	71	2	285	2	210	2	mg/L as CaCO <sub>3</sub>
pH	7.95	N/A	7.67	N/A	7.85	N/A	7.88	N/A	pH
Total Phosphorus (as P)	0.607	0.002	0.011	0.002	0.012	0.002	0.011	0.002	mg/L

Sample Description	OW10A		OW11B		OW12A		OW13A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596670		1596671		1596672		1596673		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	214	1	63	1	184	1	214	1	mg/L as CaCO <sub>3</sub>
Carbonate (Calc.)	2	1	5	1	1	1	1	1	mg/L as CaCO <sub>3</sub>
Conductivity	491	1	254	1	393	1	584	1	µS/cm
M-Alkalinity (pH 4.5)	216	2	68	2	185	2	215	2	mg/L as CaCO <sub>3</sub>
pH	7.91	N/A	8.95	N/A	7.91	N/A	7.83	N/A	pH
Total Phosphorus (as P)	0.012	0.002	0.011	0.002	0.011	0.002	0.015	0.002	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW13B		OW14B		OW16B		OW20B		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596674		1596675		1596676		1596677		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	267	1	378	1	153	1	253	1	mg/L as CaCO3
Carbonate (Calc.)	1	1	2	1	1	1	2	1	mg/L as CaCO3
Conductivity	566	1	746	1	338	1	523	1	µS/cm
M-Alkalinity (pH 4.5)	268	2	380	2	154	2	255	2	mg/L as CaCO3
pH	7.76	N/A	7.71	N/A	7.91	N/A	7.9	N/A	pH
Total Phosphorus (as P)	0.012	0.002	0.013	0.002	0.030	0.002	0.363 (0.363)	0.002	mg/L

Sample Description	OW21B		OW22B		OW23B		North Pond		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596678		1596679		1596680		1596874		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	253	1	253	1	243	1	204	1	mg/L as CaCO3
Carbonate (Calc.)	2	1	2	1	2	1	2	1	mg/L as CaCO3
Conductivity	520	1	675	1	606	1	424	1	µS/cm
M-Alkalinity (pH 4.5)	255	2	255	2	245	2	206	2	mg/L as CaCO3
pH	7.89	N/A	7.83	N/A	7.85	N/A	7.89	N/A	pH
Total Phosphorus (as P)	0.026	0.002	0.009	0.002	0.019	0.002	0.034	0.002	mg/L



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**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	South Pond		
Sample Date	11/6/2020 12:00 AM		
Lab ID	1596875		
General Chemistry	Result	MDL	Units
Bicarbonate (Calc.)	149	1	mg/L as CaCO3
Carbonate (Calc.)	<1	1	mg/L as CaCO3
Conductivity	305	1	µS/cm
M-Alkalinity (pH 4.5)	150	2	mg/L as CaCO3
pH	7.83	N/A	pH
Total Phosphorus (as P)	0.939	0.002	mg/L

Sample Description	OW4B		OW5A		OW5B		OW6A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596662		1596663		1596664		1596665		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	94.2	0.5	90.2	0.5	85.7	0.5	45.2	0.5	mg/L
Magnesium	19.900	0.005	22.300	0.005	21.300	0.005	13.600	0.005	mg/L
Potassium	0.762	0.001	2.650	0.001	2.740	0.001	2.500	0.001	mg/L
Sodium	17.6	0.1	29	1	22.9	0.1	5.0	0.1	mg/L

Sample Description	OW7A		OW7B		OW8A		OW9A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596666		1596667		1596668		1596669		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	133.0	0.5	5.78	0.05	90.3	0.5	67.4 [66.9]	0.5	mg/L





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Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW7A		OW7B		OW8A		OW9A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596666		1596667		1596668		1596669		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Magnesium	19.300	0.005	14.900	0.005	30.300	0.005	10.600 [10.800]	0.005	mg/L
Potassium	1.600	0.001	0.764	0.001	0.973	0.001	0.602 [0.593]	0.001	mg/L
Sodium	3.8	0.1	1.8	0.1	6.3	0.1	1.4 [1.4]	0.1	mg/L
Sample Description	OW10A		OW11B		OW12A		OW13A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596670		1596671		1596672		1596673		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	55.2	0.5	6.26	0.05	62.5	0.5	60.1	0.5	mg/L
Magnesium	19.900	0.005	11.000	0.005	5.620	0.005	25.200	0.005	mg/L
Potassium	1.100	0.001	2.560	0.001	1.160	0.001	0.984	0.001	mg/L
Sodium	6.6	0.1	22.6	0.1	1.5	0.1	12.4	0.1	mg/L
Sample Description	OW13B		OW14B		OW16B		OW20B		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596674		1596675		1596676		1596677		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	74.4	0.5	100.0	0.5	45.4	0.5	146.0	0.5	mg/L
Magnesium	18.100	0.005	28.200	0.005	12.700	0.005	47.300	0.005	mg/L
Potassium	1.130	0.001	0.789	0.001	0.685	0.001	1.070	0.001	mg/L
Sodium	5.5	0.1	1.9	0.1	2.6	0.1	2.8	0.1	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW21B		OW22B		OW23B		North Pond		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596678		1596679		1596680		1596874		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	67.5	0.5	84.8	0.5	67.5	0.5	57.9	0.5	mg/L
Magnesium	25.100	0.005	31.400	0.005	27.200	0.005	11.200	0.005	mg/L
Potassium	0.812	0.001	0.902	0.001	1.410	0.001	4.700	0.001	mg/L
Sodium	2.7	0.1	3.7	0.1	7.2	0.1	2.2	0.1	mg/L

Sample Description	South Pond		
Sample Date	11/6/2020 12:00 AM		
Lab ID	1596875		
Metals	Result	MDL	Units
Calcium	44.6	0.5	mg/L
Magnesium	5.420	0.005	mg/L
Potassium	4.750	0.001	mg/L
Sodium	0.5	0.1	mg/L

Sample Description	OW4B		OW5A		OW5B		OW6A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596662		1596663		1596664		1596665		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	3	2	<2	2	6	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	49	1	54	1	46	1	46	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW4B		OW5A		OW5B		OW6A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596662		1596663		1596664		1596665		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	6	2	10	2	8	2	13	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	84700	500	86500	500	90400	500	43000	500	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	4	1	5	1	5	1	2	1	ug/L
Dissolved Cobalt	0.1	0.1	0.3	0.1	0.1	0.1	<0.1	0.1	ug/L
Dissolved Copper	<1	1	1	1	1	1	2	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	1	1	1	1	1	1	1	1	ug/L
Dissolved Iron	232	20	329	20	262	20	140	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	0.6	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	18800	5	20300	5	20100	5	12400	5	ug/L
Dissolved Manganese	2	1	247	1	3	1	<1	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	5	1	<1	1	10	1	ug/L
Dissolved Nickel	2	1	3	1	2	1	2	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	58	50	<50	50	<50	50	ug/L
Dissolved Potassium	740	100	4190	100	3870	100	2450	100	ug/L
Dissolved Rubidium	<1	1	2	1	2	1	<1	1	ug/L





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### CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW4B		OW5A		OW5B		OW6A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596662		1596663		1596664		1596665		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Scandium	1	1	1	1	<1	1	<1	1	ug/L
Dissolved Selenium	0.5	0.5	<0.5	0.5	<0.5	0.5	1.3	0.5	ug/L
Dissolved Silicon	3700	600	4000	600	3900	600	2300	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	16400	100	27300	100	26200	100	4700	100	ug/L
Dissolved Strontium	144	1	147	1	148	1	114	1	ug/L
Dissolved Sulfur	3500	800	5400	800	5300	800	6900	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	1	1	1	1	<1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	<1	1	2	1	<1	1	14	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW7A		OW7B		OW8A		OW9A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596666		1596667		1596668		1596669		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	8	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	42	1	7	1	92	1	38	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	7	2	10	2	6	2	5	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	47100	500	9980	50	85400	500	68700	500	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	2	1	1	1	5	1	3	1	ug/L
Dissolved Cobalt	0.1	0.1	<0.1	0.1	0.1	0.1	0.1	0.1	ug/L
Dissolved Copper	<1	1	<1	1	<1	1	1	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	1	1	<1	1	2	1	<1	1	ug/L
Dissolved Iron	286	20	93	20	260	20	200	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	0.2	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	11600	5	13400	5	27000	5	11100	5	ug/L
Dissolved Manganese	33	1	43	1	<1	1	8	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	2	1	4	1	<1	1	3	1	ug/L



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### CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW7A		OW7B		OW8A		OW9A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596666		1596667		1596668		1596669		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Nickel	2	1	<1	1	2	1	2	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50	50	<50	50	ug/L
Dissolved Potassium	1070	100	800	100	870	100	750	100	ug/L
Dissolved Rubidium	<1	1	<1	1	<1	1	2	1	ug/L
Dissolved Scandium	<1	1	<1	1	2	1	<1	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	2500	600	<600	600	5900	600	3600	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	2850	100	1860	100	6540	100	1420	100	ug/L
Dissolved Strontium	95	1	16	1	166	1	114	1	ug/L
Dissolved Sulfur	5400	800	1400	800	3600	800	2500	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	<1	1	1	1	<1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	1	1	<1	1	2	1	4	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW10A		OW11B		OW12A		OW13A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596670		1596671		1596672		1596673		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	4	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	1	1	ug/L
Dissolved Barium	58	1	3	1	4	1	36	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	14	2	11	2	4	2	6	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	55600	500	5320	50	62200	500	65400	500	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	3	1	<1	1	3	1	3	1	ug/L
Dissolved Cobalt	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Copper	<1	1	1	1	<1	1	<1	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Iron	170	20	77	20	170	20	190	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	19600	5	10200	5	5520	5	21300	5	ug/L
Dissolved Manganese	<1	1	25	1	<1	1	<1	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	3	1	3	1	<1	1	1	1	ug/L



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Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW10A		OW11B		OW12A		OW13A		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596670		1596671		1596672		1596673		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Nickel	2	1	<1	1	2	1	2	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50	50	<50	50	ug/L
Dissolved Potassium	1130	100	2570	100	840	100	990	100	ug/L
Dissolved Rubidium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Scandium	1	1	<1	1	<1	1	1	1	ug/L
Dissolved Selenium	0.6	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	4700	600	<600	600	2600	600	4500	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	6470	100	22900	100	1500	100	8260	100	ug/L
Dissolved Strontium	173	1	7	1	136	1	129	1	ug/L
Dissolved Sulfur	8050	800	1100	800	1400	800	12500	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	10	1	<1	1	<1	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	8	1	3	1	<1	1	5	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L



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Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW13B		OW14B		OW16B		OW20B		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596674		1596675		1596676		1596677		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	5	2	<2	2	10	2	154	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	46	1	88	1	32	1	92	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	6	2	6	2	5	2	6	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	0.2	0.1	ug/L
Dissolved Calcium	75300	500	90000	500	45500	500	81300	500	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	5	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	3	1	5	1	2	1	3	1	ug/L
Dissolved Cobalt	0.1	0.1	0.1	0.1	<0.1	0.1	0.2	0.1	ug/L
Dissolved Copper	2	1	2	1	<1	1	2	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	1	1	2	1	<1	1	2	1	ug/L
Dissolved Iron	226	20	268	20	140	20	447	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	2	1	ug/L
Dissolved Lead	1.4	0.1	0.5	0.1	0.2	0.1	3.1	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	17600	5	26900	5	11400	5	24200	5	ug/L
Dissolved Manganese	<1	1	<1	1	1	1	42	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	6	1	7	1	<1	1	<1	1	ug/L





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW13B		OW14B		OW16B		OW20B		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596674		1596675		1596676		1596677		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Nickel	2	1	3	1	1	1	2	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50	50	83	50	ug/L
Dissolved Potassium	1140	100	720	100	620	100	660	100	ug/L
Dissolved Rubidium	<1	1	<1	1	<1	1	1	1	ug/L
Dissolved Scandium	<1	1	1	1	<1	1	1	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	0.7	0.5	<0.5	0.5	ug/L
Dissolved Silicon	3500	600	5200	600	3000	600	4700	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	5360	100	2180	100	2850	100	2410	100	ug/L
Dissolved Strontium	122	1	179	1	84	1	141	1	ug/L
Dissolved Sulfur	3100	800	2800	800	3800	800	2900	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	3	1	<1	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1	1	2	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	1	1	<1	1	1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	2	1	ug/L
Dissolved Zinc	18	1	41	1	13	1	22	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW21B		OW22B		OW23B		North Pond		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596678		1596679		1596680		1596874		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	30	2	<2	2	5	2	66 [63]	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Barium	64	1	81	1	29	1	29 [29]	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5 [<0.5]	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Boron	5	2	6	2	8	2	13 [13]	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Calcium	68500	500	82800	500	73800	500	68300 [68200]	500	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Chromium	3	1	3	1	3	1	3 [3]	1	ug/L
Dissolved Cobalt	0.1	0.1	0.1	0.1	<0.1	0.1	0.3 [0.2]	0.1	ug/L
Dissolved Copper	3	1	3	1	1	1	<1 [<1]	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Gallium	1	1	2	1	<1	1	1 [1]	1	ug/L
Dissolved Iron	207	20	235	20	214	20	730 [760]	200	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW21B		OW22B		OW23B		North Pond		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596678		1596679		1596680		1596874		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Lead	1.1	0.1	0.6	0.1	0.2	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5 [<5]	5	ug/L
Dissolved Magnesium	21700	5	30100	5	26700	5	10400 [10600]	5	ug/L
Dissolved Manganese	2	1	<1	1	1	1	96 [98]	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Molybdenum	<1	1	10	1	1	1	<1 [<1]	1	ug/L
Dissolved Nickel	2	1	3	1	2	1	2 [2]	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50	50	<50 [<50]	50	ug/L
Dissolved Potassium	760	100	800	100	1230	100	4340 [4320]	100	ug/L
Dissolved Rubidium	<1	1	<1	1	1	1	4 [4]	1	ug/L
Dissolved Scandium	1	1	1	1	1	1	<1 [<1]	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	<0.5	0.5	1.5 [<0.5]	0.5	ug/L
Dissolved Silicon	4100	600	5300	600	4300	600	2500 [2500]	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Sodium	2820	100	3630	100	4610	100	1970 [2040]	100	ug/L





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**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	OW21B		OW22B		OW23B		North Pond		
Sample Date	11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		11/6/2020 12:00 AM		
Lab ID	1596678		1596679		1596680		1596874		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Strontium	120	1	165	1	116	1	95 [95]	1	ug/L
Dissolved Sulfur	4300	800	13100	800	7200	800	950 [<800]	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1 [<0.1]	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Tin	2	1	<1	1	3	1	<1 [<1]	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1	1	3 [2]	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Vanadium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L
Dissolved Zinc	12	1	18	1	13	1	3 [3]	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1 [<1]	1	ug/L



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## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	South Pond		
Sample Date	11/6/2020 12:00 AM		
Lab ID	1596875		
Metals (Dissolved)	Result	MDL	Units
Dissolved Aluminum	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	ug/L
Dissolved Barium	9	1	ug/L
Dissolved Beryllium	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	ug/L
Dissolved Boron	13	2	ug/L
Dissolved Cadmium	<0.1	0.1	ug/L
Dissolved Calcium	56000	500	ug/L
Dissolved Cerium	<1	1	ug/L
Dissolved Cesium	<1	1	ug/L
Dissolved Chromium	2	1	ug/L
Dissolved Cobalt	0.1	0.1	ug/L
Dissolved Copper	<1	1	ug/L
Dissolved Europium	<1	1	ug/L
Dissolved Gallium	<1	1	ug/L
Dissolved Iron	369	20	ug/L
Dissolved Lanthanum	<1	1	ug/L
Dissolved Lead	<0.1	0.1	ug/L
Dissolved Lithium	<5	5	ug/L
Dissolved Magnesium	5420	5	ug/L
Dissolved Manganese	121	1	ug/L
Dissolved Mercury	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	ug/L



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## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

Sample Description	South Pond		
Sample Date	11/6/2020 12:00 AM		
Lab ID	1596875		
Metals (Dissolved)	Result	MDL	Units
Dissolved Nickel	1	1	ug/L
Dissolved Niobium	<1	1	ug/L
Dissolved Phosphorus	<50	50	ug/L
Dissolved Potassium	4340	100	ug/L
Dissolved Rubidium	5	1	ug/L
Dissolved Scandium	<1	1	ug/L
Dissolved Selenium	0.6	0.5	ug/L
Dissolved Silicon	3100	600	ug/L
Dissolved Silver	<0.1	0.1	ug/L
Dissolved Sodium	420	100	ug/L
Dissolved Strontium	79	1	ug/L
Dissolved Sulfur	<800	800	ug/L
Dissolved Tellurium	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	ug/L
Dissolved Tin	<1	1	ug/L
Dissolved Titanium	<1	1	ug/L
Dissolved Tungsten	<1	1	ug/L
Dissolved Uranium	<1	1	ug/L
Dissolved Vanadium	<1	1	ug/L
Dissolved Yttrium	<1	1	ug/L
Dissolved Zinc	6	1	ug/L
Dissolved Zirconium	<1	1	ug/L





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## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 416516

### LEGEND

**Dates:** Dates are formatted as mm/dd/year throughout this report.

**{r}**: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

**MDL:** Method detection limit or minimum reporting limit.

**[ ]:** Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

**Quality Control:** All associated Quality Control data is available on request.

**Field Data:** Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

**Sample Condition Deviations:** A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.



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## CERTIFICATE OF ANALYSIS

Client:	Tecia White	Work Order Number:	403741
Company:	Whitewater Hydrogeology Ltd.	PO #:	
Address:	80 Chamberlain Cres Collingwood, ON, L9Y 0C8	Regulation:	Information not provided
Phone:	(705) 888-7064	Project #:	Strata Aggregates Shelburne Pits
Email:	tecia@white-water.ca	DWS #:	
		Sampled By:	Tecia White
Date Order Received:	6/22/2020	Analysis Started:	6/26/2020
Arrival Temperature:	22 °C	Analysis Completed:	6/30/2020

### WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OW5-A	1549351	Ground Water	None			
OW6-A	1549352	Ground Water	None			
OW7-A	1549353	Ground Water	None			
OW8-A	1549354	Ground Water	None			
OW9-A	1549355	Ground Water	None			
OW10-A	1549356	Ground Water	None			
OW12-A	1549357	Ground Water	None			
OW14-B	1549358	Ground Water	None			
OW16-B	1549359	Ground Water	None			
OW18-A	1549360	Ground Water	None			
OW20-B	1549361	Ground Water	None			
OW21-B	1549362	Ground Water	None			

### METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):



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## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403741

Method	Lab	Description	Reference
BTEX/F1 Water (A127)	Mississauga	Determination of PHC BTEX/F1 in Water - Tier 1 CCME	Modified from CWS PHC Tier I CCME
Oil and Grease (A54)	Mississauga	Determination of Oil and Grease in Water	Modified from EPA 1664
PHC F2-F4 Water (A59)	Mississauga	Determination of PHC (F2-F4) in Water - Tier 1 CCME by GC/FID	Modified from CWS PHC Tier I CCME

This report has been approved by:

Marc Creighton  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403741

**WORK ORDER RESULTS**

<b>Sample Description</b>	OW5 - A		OW6 - A		OW7 - A		OW8 - A	
<b>Sample Date</b>	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]	
<b>Lab ID</b>	1549351		1549352		1549353		1549354	

General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Oil and Grease, Total	<1	1	<1	1	<1	1	<1	1	mg/L

<b>Sample Description</b>	OW9 - A		OW10 - A		OW12 - A		OW14 - B	
<b>Sample Date</b>	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]	
<b>Lab ID</b>	1549355		1549356		1549357		1549358	

General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Oil and Grease, Total	<1	1	1	1	3	1	1	1	mg/L

<b>Sample Description</b>	OW16 - B		OW18 - A		OW20 - B		OW21 - B	
<b>Sample Date</b>	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]	
<b>Lab ID</b>	1549359		1549360		1549361		1549362	

General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Oil and Grease, Total	1	1	<1	1	1	1	2	1	mg/L

<b>Sample Description</b>	OW5 - A		OW6 - A		OW7 - A		OW8 - A	
<b>Sample Date</b>	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]	
<b>Lab ID</b>	1549351		1549352		1549353		1549354	

Petroleum Hydrocarbons (Water)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX (Calc.)	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<22	22	<22	22	<22	22	<22	22	ug/L
F2 (C10-C16)	<100	100	<100	100	<100	100	<100	100	ug/L
F3 (C16-C34)	<500	500	<600	600	<400	400	<600	600	ug/L





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403741

Sample Description	OW5 - A		OW6 - A		OW7 - A		OW8 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549351		1549352		1549353		1549354		
Petroleum Hydrocarbons (Water)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F4 (C34-C50)	<100	100	<100	100	<100	100	<100	100	ug/L
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
Benzene	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Ethylbenzene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
Toluene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
m+p-Xylene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
o-Xylene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
Total Xylenes (Calc.)	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
1,4-dichlorobenzene-d4 (Surr.)	103	N/A	101	N/A	102	N/A	101	N/A	% Rec
o-Terphenyl (Surr.)	58.8	N/A	63.1	N/A	54.1	N/A	61.6	N/A	% Rec
undecane (Surr.)	101	N/A	103	N/A	99.7	N/A	102	N/A	% Rec

Sample Description	OW9 - A		OW10 - A		OW12 - A		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549355		1549356		1549357		1549358		
Petroleum Hydrocarbons (Water)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX (Calc.)	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<22	22	<22	22	<22	22	<22	22	ug/L
F2 (C10-C16)	<100	100	<90	90	<100	100	<100	100	ug/L
F3 (C16-C34)	<500	500	<400	400	<500	500	<500	500	ug/L
F4 (C34-C50)	<100	100	<90	90	<100	100	<100	100	ug/L
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
Benzene	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Ethylbenzene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403741

Sample Description	OW9 - A		OW10 - A		OW12 - A		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549355		1549356		1549357		1549358		
Petroleum Hydrocarbons (Water)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Toluene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
m+p-Xylene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
o-Xylene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
Total Xylenes (Calc.)	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
1,4-dichlorobenzene-d4 (Surr.)	101	N/A	102	N/A	101	N/A	100	N/A	% Rec
o-Terphenyl (Surr.)	59.1	N/A	61.8	N/A	61	N/A	35	N/A	% Rec
undecane (Surr.)	101	N/A	100	N/A	101	N/A	102	N/A	% Rec
Sample Description	OW16 - B		OW18 - A		OW20 - B		OW21 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549359		1549360		1549361		1549362		
Petroleum Hydrocarbons (Water)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX (Calc.)	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<22	22	<22	22	<22	22	<22	22	ug/L
F2 (C10-C16)	<100	100	<90	90	<100	100	<100	100	ug/L
F3 (C16-C34)	<500	500	<400	400	<500	500	<400	400	ug/L
F4 (C34-C50)	<100	100	<90	90	240	100	110	100	ug/L
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
Benzene	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Ethylbenzene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
Toluene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
m+p-Xylene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
o-Xylene	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L
Total Xylenes (Calc.)	<0.4	0.4	<0.4	0.4	<0.4	0.4	<0.4	0.4	ug/L



## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403741

Sample Description	OW16 - B		OW18 - A		OW20 - B		OW21 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549359		1549360		1549361		1549362		
Petroleum Hydrocarbons (Water)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1,4-dichlorobenzene-d4 (Surr.)	102	N/A	100	N/A	102	N/A	99.8	N/A	% Rec
o-Terphenyl (Surr.)	61.1	N/A	45.2	N/A	17.1	N/A	66.9	N/A	% Rec
undecane (Surr.)	101	N/A	98.6	N/A	96.1	N/A	96.1	N/A	% Rec

### LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[n]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.



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## CERTIFICATE OF ANALYSIS

Client:	Tecia White	Work Order Number:	403737
Company:	Whitewater Hydrogeology Ltd.	PO #:	
Address:	80 Chamberlain Cres Collingwood, ON, L9Y 0C8	Regulation:	Information not provided
Phone:	(705) 888-7064	Project #:	Strata Aggregates Shelburne Pits
Email:	tecia@white-water.ca	DWS #:	
		Sampled By:	Tecia White
Date Order Received:	6/22/2020	Analysis Started:	6/24/2020
Arrival Temperature:	22 °C	Analysis Completed:	6/30/2020

### WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OW2-B	1549315	Ground Water	None			
OW3-B	1549316	Ground Water	None			
OW4-B	1549317	Ground Water	None			
OW5-A	1549318	Ground Water	None			
OW5-B	1549319	Ground Water	None			
OW6-A	1549320	Ground Water	None			
OW7-A	1549321	Ground Water	None			
OW7-B	1549322	Ground Water	None			
OW8-A	1549323	Ground Water	None			
OW9-A	1549324	Ground Water	None			
OW10-A	1549325	Ground Water	None			
OW11-B	1549326	Ground Water	None			
OW12-A	1549327	Ground Water	None			
OW13-A	1549328	Ground Water	None			
OW13-B	1549329	Ground Water	None			
OW14-B	1549330	Ground Water	None			
OW16-B	1549331	Ground Water	None			





## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
OW18-A	1549332	Ground Water	None			
OW18-B	1549333	Ground Water	None			
OW19-B	1549334	Ground Water	None			
OW20-B	1549335	Ground Water	None			
OW21-B	1549336	Ground Water	None			
OW22-B	1549337	Ground Water	None			
OW23-B	1549338	Ground Water	None			
NORTH POND	1549339	Ground Water	None			
SOUTH POND	1549340	Ground Water	None			

### METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Alkalinity (A1.0)	Mississauga	Determination of Alkalinity by Titration	Modified from APHA-2320B
Anions Water (mg/L by IC) (A5)	Mississauga	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
Carbonate (A94)	Mississauga	Determination of Carbonate and Bi-Carbonate	Modified from APHA-2320
Conductivity of Water (A12)	Mississauga	Determination of Conductivity in Water at 25°C	Modified from SM 2510 B
ICPMS Dis. Water (A13)	Mississauga	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS	Modified from SW846-6020
ICPMS Dis. Water FF (A13)	Mississauga	Determination of Dissolved (Lab Filtered) Metals in Water by ICP/MS -> Field-Filtered	Modified from SW846-6020
ICPMS Reg. Water (A13)	Mississauga	Determination of Metals in Water by ICP/MS	Modified from SW846-6020
pH of Water (A2.0)	Mississauga	Determination of Water pH by Ion Selective Electrode	Modified from APHA-4500H+ B
TP Water (A23.2)	Kirkland Lake	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,



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**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

This report has been approved by:

Marc Creighton  
Laboratory Director



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### CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

#### WORK ORDER RESULTS

Sample Description	OW2 - B		OW3 - B		OW4 - B		OW5 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549315		1549316		1549317		1549318		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	4.8 [4.7]	0.2	76.4	0.2	31.7	0.2	55.0	0.2	mg/L
Fluoride	0.87 [0.85]	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	mg/L
Nitrate (as N)	0.46 [0.44]	0.05	10.20	0.05	7.13	0.05	4.85	0.05	mg/L
Nitrite (as N)	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	11.2 [11.2]	0.3	13.9	0.3	8.3	0.3	12.5	0.3	mg/L

Sample Description	OW5 - B		OW6 - A		OW7 - A		OW7 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549319		1549320		1549321		1549322		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	0.4	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	45.1	0.2	27.0	0.2	9.4	0.2	1.5	0.2	mg/L
Fluoride	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	mg/L
Nitrate (as N)	<0.05	0.05	2.08	0.05	1.47	0.05	0.06	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	7.2	0.3	14.5	0.3	12.5	0.3	<0.3	0.3	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW8 - A		OW9 - A		OW10 - A		OW11 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549323		1549324		1549325		1549326		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	31.8	0.2	2.1	0.2	7.8	0.2	44.7	0.2	mg/L
Fluoride	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	mg/L
Nitrate (as N)	7.93	0.05	2.19	0.05	0.86	0.05	<0.05	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	8.5	0.3	3.8	0.3	23.8	0.3	0.6	0.3	mg/L

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	1.0	0.2	7.9	0.2	6.9	0.2	2.0	0.2	mg/L
Fluoride	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	mg/L
Nitrate (as N)	0.35	0.05	1.67	0.05	0.83	0.05	1.65	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	2.9	0.3	16.9	0.3	4.7	0.3	10.2	0.3	mg/L

Sample Description	OW16 - B		OW18 - A		OW18 - B		OW19 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549331		1549332		1549333		1549334		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	2.4	0.2	8.3	0.2	5.2	0.2	16.8	0.2	mg/L





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### CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW16 - B		OW18 - A		OW18 - B		OW19 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549331		1549332		1549333		1549334		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Fluoride	<0.06	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	mg/L
Nitrate (as N)	1.24	0.05	3.60	0.05	1.77	0.05	5.96	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	1.97	0.05	mg/L
Sulphate	7.0	0.3	19.9	0.3	7.8	0.3	18.5	0.3	mg/L

Sample Description	OW20 - B		OW21 - B		OW22 - B		OW23 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549335		1549336		1549337		1549338		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	2.5 [2.5]	0.2	1.9	0.2	19.9	0.2	17.9	0.2	mg/L
Fluoride	<0.06 [<0.06]	0.06	<0.06	0.06	<0.06	0.06	<0.06	0.06	mg/L
Nitrate (as N)	4.24 [4.29]	0.05	0.85	0.05	7.97	0.05	7.79	0.05	mg/L
Nitrite (as N)	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	5.9 [5.8]	0.3	12.0	0.3	39.6	0.3	18.8	0.3	mg/L

Sample Description	NORTH POND		SOUTH POND		
Sample Date	[Not Provided]		[Not Provided]		
Lab ID	1549339		1549340		
Anions	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	<0.1	0.1	mg/L
Chloride	7.6	0.2	0.8	0.2	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	NORTH POND		SOUTH POND						
Sample Date	[Not Provided]		[Not Provided]						
Lab ID	1549339		1549340						
Anions	Result	MDL	Result	MDL	Units				
Fluoride	<0.06	0.06	<0.06	0.06	mg/L				
Nitrate (as N)	<0.05	0.05	<0.05	0.05	mg/L				
Nitrite (as N)	<0.05	0.05	<0.05	0.05	mg/L				
Sulphate	2.0	0.3	3.4	0.3	mg/L				
Sample Description	OW2 - B		OW3 - B		OW4 - B		OW5 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549315		1549316		1549317		1549318		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	258	1	312	1	292	1	264	1	mg/L as CaCO3
Carbonate (Calc.)	2	1	2	1	2	1	1	1	mg/L as CaCO3
Conductivity	497	1	870	1	661	1	656	1	µS/cm
M-Alkalinity (pH 4.5)	260	2	314	2	294	2	265	2	mg/L as CaCO3
pH	7.81	N/A	7.79	N/A	7.76	N/A	7.68	N/A	pH
Total Phosphorus (as P)	0.025	0.002	0.183	0.002	0.008	0.002	0.087	0.002	mg/L
Sample Description	OW5 - B		OW6 - A		OW7 - A		OW7 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549319		1549320		1549321		1549322		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	279	1	132	1	115	1	81	1	mg/L as CaCO3
Carbonate (Calc.)	1	1	<1	1	<1	1	1	1	mg/L as CaCO3



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### CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW5 - B		OW6 - A		OW7 - A		OW7 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549319		1549320		1549321		1549322		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Conductivity	617	1	358	1	275	1	154	1	µS/cm
M-Alkalinity (pH 4.5)	280	2	133	2	116	2	82	2	mg/L as CaCO3
pH	7.74	N/A	7.79	N/A	7.71	N/A	8.21	N/A	pH
Total Phosphorus (as P)	0.008	0.002	0.010 [0.009]	0.002	0.010	0.002	0.009	0.002	mg/L

Sample Description	OW8 - A		OW9 - A		OW10 - A		OW11 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549323		1549324		1549325		1549326		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	281	1	170	1	214	1	62	1	mg/L as CaCO3
Carbonate (Calc.)	1	1	<1	1	1	1	1	1	mg/L as CaCO3
Conductivity	657	1	350	1	469	1	253	1	µS/cm
M-Alkalinity (pH 4.5)	282	2	171	2	215	2	63	2	mg/L as CaCO3
pH	7.58	N/A	7.7	N/A	7.7	N/A	8.37	N/A	pH
Total Phosphorus (as P)	0.019	0.002	0.008	0.002	0.010	0.002	0.011	0.002	mg/L

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	181	1	221	1	235	1	382	1	mg/L as CaCO3



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Carbonate (Calc.)	1	1	1	1	2	1	2	1	mg/L as CaCO3
Conductivity	344	1	467	1	459	1	702	1	µS/cm
M-Alkalinity (pH 4.5)	182	2	222	2	237	2	384	2	mg/L as CaCO3
pH	7.87	N/A	7.79	N/A	7.86	N/A	7.81	N/A	pH
Total Phosphorus (as P)	0.008	0.002	0.009	0.002	0.008	0.002	0.011	0.002	mg/L

Sample Description	OW16 - B		OW18 - A		OW18 - B		OW19 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549331		1549332		1549333		1549334		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	141	1	220	1	213	1	312	1	mg/L as CaCO3
Carbonate (Calc.)	1	1	1	1	2	1	2	1	mg/L as CaCO3
Conductivity	294	1	487	1	437	1	703	1	µS/cm
M-Alkalinity (pH 4.5)	142	2	221	2	215	2	314	2	mg/L as CaCO3
pH	7.98	N/A	7.84	N/A	7.94	N/A	7.87	N/A	pH
Total Phosphorus (as P)	0.023	0.002	0.047	0.002	0.036	0.002	0.044	0.002	mg/L

Sample Description	OW20 - B		OW21 - B		OW22 - B		OW23 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549335		1549336		1549337		1549338		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	252	1	260	1	248	1	218	1	mg/L as CaCO3





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW20 - B		OW21 - B		OW22 - B		OW23 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549335		1549336		1549337		1549338		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Carbonate (Calc.)	2	1	2	1	2	1	2	1	mg/L as CaCO3
Conductivity	511	1	504	1	639	1	430	1	µS/cm
M-Alkalinity (pH 4.5)	254	2	262	2	250	2	220	2	mg/L as CaCO3
pH	7.83	N/A	7.94	N/A	7.83	N/A	7.93	N/A	pH
Total Phosphorus (as P)	2.00	0.02	0.125	0.002	0.022	0.002	0.018	0.002	mg/L

Sample Description	NORTH POND		SOUTH POND		
Sample Date	[Not Provided]		[Not Provided]		
Lab ID	1549339		1549340		
General Chemistry	Result	MDL	Result	MDL	Units
Bicarbonate (Calc.)	243	1	153	1	mg/L as CaCO3
Carbonate (Calc.)	2	1	<1	1	mg/L as CaCO3
Conductivity	582	1	300	1	µS/cm
M-Alkalinity (pH 4.5)	245	2	154	2	mg/L as CaCO3
pH	7.92	N/A	7.81	N/A	pH
Total Phosphorus (as P)	0.019	0.002	0.055 [0.062]	0.002	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW2 - B		OW3 - B		OW4 - B		OW5 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549315		1549316		1549317		1549318		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	53.3	0.5	230.0	0.5	97.0 [96.8]	0.5	87.3	0.5	mg/L
Magnesium	20.600	0.005	36.300	0.005	19.900 [20.300]	0.005	19.500	0.005	mg/L
Potassium	4.040	0.001	1.510	0.001	0.754 [0.766]	0.001	3.500	0.001	mg/L
Sodium	25.2	0.1	19.5	0.1	17.0 [17.3]	0.1	24.5	0.1	mg/L

Sample Description	OW5 - B		OW6 - A		OW7 - A		OW7 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549319		1549320		1549321		1549322		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	84.8	0.5	46.4	0.5	43.7	0.5	498.0	0.5	mg/L
Magnesium	21.300	0.005	14.300	0.005	8.890	0.005	63.40	0.05	mg/L
Potassium	2.750	0.001	1.990	0.001	1.010	0.001	1.770	0.001	mg/L
Sodium	21.8	0.1	6.4	0.1	2.8	0.1	2.8	0.1	mg/L

Sample Description	OW8 - A		OW9 - A		OW10 - A		OW11 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549323		1549324		1549325		1549326		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	88.3	0.5	56.2	0.5	350.0	0.5	12.40	0.05	mg/L
Magnesium	28.700	0.005	9.540	0.005	84.50	0.05	12.600	0.005	mg/L
Potassium	0.917	0.001	0.583	0.001	1.730	0.001	2.470	0.001	mg/L
Sodium	5.5	0.1	1.3	0.1	6.9	0.1	22.5	0.1	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	63.0	0.5	65.1	0.5	69.6	0.5	104.0	0.5	mg/L
Magnesium	5.330	0.005	18.000	0.005	15.000	0.005	26.700	0.005	mg/L
Potassium	0.548	0.001	1.020	0.001	0.923	0.001	0.658	0.001	mg/L
Sodium	1.7	0.1	4.6	0.1	5.0	0.1	2.1	0.1	mg/L

Sample Description	OW16 - B		OW18 - A		OW18 - B		OW19 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549331		1549332		1549333		1549334		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	47.5	0.5	92.7	0.5	260.0	0.5	96.5	0.5	mg/L
Magnesium	11.100	0.005	20.300	0.005	81.30	0.05	26.900	0.005	mg/L
Potassium	0.642	0.001	1.460	0.001	1.290	0.001	4.660	0.001	mg/L
Sodium	1.5	0.1	2.1	0.1	2.2	0.1	3.5	0.1	mg/L

Sample Description	OW20 - B		OW21 - B		OW22 - B		OW23 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549335		1549336		1549337		1549338		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	429.0	0.5	89.6	0.5	81.0	0.5	74.0	0.5	mg/L
Magnesium	113.00	0.05	30.400	0.005	27.700	0.005	25.100	0.005	mg/L
Potassium	1.460	0.001	1.230	0.001	0.761	0.001	1.170	0.001	mg/L
Sodium	4.4	0.1	2.8	0.1	3.5	0.1	3.7	0.1	mg/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	NORTH POND		SOUTH POND		
Sample Date	[Not Provided]		[Not Provided]		
Lab ID	1549339		1549340		
Metals	Result	MDL	Result	MDL	Units
Calcium	67.8	0.5	51.8	0.5	mg/L
Magnesium	10,700	0.005	4,770	0.005	mg/L
Potassium	2,170	0.001	2,560	0.001	mg/L
Sodium	2.3	0.1	0.7	0.1	mg/L

Sample Description	OW2 - B		OW3 - B		OW4 - B		OW5 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549315		1549316		1549317		1549318		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2 [<2]	2	851	20	<2	2	5	2	ug/L
Dissolved Antimony	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	1 [1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	37 [37]	1	95	1	54	1	45	1	ug/L
Dissolved Beryllium	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	343 [343]	2	18	2	12	2	12	2	ug/L
Dissolved Cadmium	<0.1 [<0.1]	0.1	0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	41600 [41600]	500	235000	500	94800	500	78500	500	ug/L
Dissolved Cerium	<1 [<1]	1	12	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW2 - B		OW3 - B		OW4 - B		OW5 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549315		1549316		1549317		1549318		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Chromium	3 [2]	1	4	1	3	1	3	1	ug/L
Dissolved Cobalt	<0.1 [<0.1]	0.1	0.9	0.1	0.1	0.1	0.1	0.1	ug/L
Dissolved Copper	<1 [<1]	1	3	1	1	1	1	1	ug/L
Dissolved Europium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	1 [1]	1	3	1	2	1	2	1	ug/L
Dissolved Iron	588 [596]	20	1100	200	242	20	213	20	ug/L
Dissolved Lanthanum	<1 [<1]	1	6	1	<1	1	<1	1	ug/L
Dissolved Lead	<0.1 [<0.1]	0.1	2.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Lithium	6 [6]	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	18600 [18900]	5	39900	5	20200	5	19700	5	ug/L
Dissolved Manganese	119 [119]	1	293	10	<1	1	<1	1	ug/L
Dissolved Mercury	0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Nickel	1 [2]	1	9	1	3	1	3	1	ug/L
Dissolved Niobium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50 [<50]	50	360	50	<50	50	<50	50	ug/L
Dissolved Potassium	3730 [3770]	100	1500	100	800	100	3590	100	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW2 - B		OW3 - B		OW4 - B		OW5 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549315		1549316		1549317		1549318		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Rubidium	5 [5]	1	2	1	1	1	1	1	ug/L
Dissolved Scandium	1 [1]	1	3	1	1	1	1	1	ug/L
Dissolved Selenium	<0.5 [<0.5]	0.5	0.7	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	4100 [4100]	600	5500	600	3900	600	3600	600	ug/L
Dissolved Silver	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	26600 [26600]	1000	19200	100	17100	100	23900	100	ug/L
Dissolved Strontium	442 [444]	1	347	1	151	1	138	1	ug/L
Dissolved Sulfur	7100 [7000]	800	5300	800	3100	800	4400	800	ug/L
Dissolved Tellurium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1 [<1]	1	2	1	<1	1	<1	1	ug/L
Dissolved Titanium	<1 [<1]	1	3	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	2 [2]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1 [<1]	1	1	1	<1	1	<1	1	ug/L
Dissolved Yttrium	<1 [<1]	1	6	1	<1	1	<1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW2 - B		OW3 - B		OW4 - B		OW5 - A		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549315		1549316		1549317		1549318		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Zinc	2 [1]	1	6	1	2	1	<1	1	ug/L
Dissolved Zirconium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Sample Description	OW5 - B		OW6 - A		OW7 - A		OW7 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549319		1549320		1549321		1549322		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	23	1	38	1	26	1	7	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	12	2	18	2	8	2	14	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	78200	500	40100	500	38800	500	11900	50	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	2	1	2	1	2	1	<1	1	ug/L
Dissolved Cobalt	0.2	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Copper	<1	1	<1	1	4	1	<1	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	<1	1	1	1	<1	1	<1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW5 - B		OW6 - A		OW7 - A		OW7 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549319		1549320		1549321		1549322		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Iron	1400	200	110	20	97	20	29	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	0.7	0.1	<0.1	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	20900	5	14500	5	8110	5	14800	5	ug/L
Dissolved Manganese	82	1	<1	1	<1	1	64	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	<1	1	<1	1	3	1	ug/L
Dissolved Nickel	3	1	1	1	2	1	<1	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50	50	<50	50	ug/L
Dissolved Potassium	2740	100	1990	100	980	100	740	100	ug/L
Dissolved Rubidium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Scandium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Selenium	<0.5	0.5	1.3	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	2500	600	1600	600	2000	600	<600	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	21800	100	6470	100	2780	100	1940	100	ug/L
Dissolved Strontium	132	1	103	1	64	1	18	1	ug/L
Dissolved Sulfur	3200	800	4800	800	3700	800	<800	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW5 - B		OW6 - A		OW7 - A		OW7 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549319		1549320		1549321		1549322		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Titanium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	2	1	<1	1	16	1	<1	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L

Sample Description	OW8 - A		OW9 - A		OW10 - A		OW11 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549323		1549324		1549325		1549326		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	12	2	5	2	30	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	84	1	27	1	58	1	4	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	9	2	7	2	17	2	14	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	85900	500	48700	500	46900	500	11700	50	ug/L
Dissolved Cerium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	4	1	2	1	2	1	<1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW8 - A		OW9 - A		OW10 - A		OW11 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549323		1549324		1549325		1549326		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Cobalt	0.1	0.1	<0.1	0.1	<0.1	0.1	0.1	0.1	ug/L
Dissolved Copper	3	1	<1	1	1	1	2	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	3	1	<1	1	2	1	<1	1	ug/L
Dissolved Iron	208	20	130	20	140	20	2030	200	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	0.7	0.1	<0.1	0.1	<0.1	0.1	0.1	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	27900	5	9350	5	20800	5	12700	5	ug/L
Dissolved Manganese	<1	1	6	1	11	1	122	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Nickel	3	1	2	1	2	1	<1	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	<50	50	<50	50	ug/L
Dissolved Potassium	890	100	510	100	1170	100	2550	100	ug/L
Dissolved Rubidium	<1	1	1	1	<1	1	<1	1	ug/L
Dissolved Scandium	2	1	<1	1	1	1	<1	1	ug/L
Dissolved Selenium	0.6	0.5	<0.5	0.5	0.6	0.5	<0.5	0.5	ug/L
Dissolved Silicon	5500	600	3000	600	4600	600	<600	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	6020	100	1250	100	6860	100	22900	100	ug/L
Dissolved Strontium	155	1	85	1	169	1	15	1	ug/L
Dissolved Sulfur	2500	800	1300	800	7600	800	<800	800	ug/L



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

### CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW8 - A		OW9 - A		OW10 - A		OW11 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549323		1549324		1549325		1549326		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	15	1	2	1	31	1	6	1	ug/L
Dissolved Zirconium	<1	1	<1	1	<1	1	<1	1	ug/L

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2 [<2]	2	<2	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1 [<1]	1	<1	1	<1	1	2	1	ug/L
Dissolved Barium	3 [3]	1	27	1	43	1	88	1	ug/L
Dissolved Beryllium	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Boron	4 [4]	2	6	2	5	2	7	2	ug/L
Dissolved Cadmium	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	54900 [57700]	500	63700	500	71000	500	102000	500	ug/L
Dissolved Cerium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	3 [3]	1	3	1	3	1	6	1	ug/L
Dissolved Cobalt	0.1 [0.1]	0.1	0.1	0.1	0.2	0.1	1.0	0.1	ug/L
Dissolved Copper	3 [3]	1	1	1	4	1	<1	1	ug/L
Dissolved Europium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	<1 [<1]	1	<1	1	1	1	3	1	ug/L
Dissolved Iron	170 [170]	20	180	20	190	20	325	20	ug/L
Dissolved Lanthanum	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	0.7 [0.7]	0.1	<0.1	0.1	0.9	0.1	0.1	0.1	ug/L
Dissolved Lithium	<5 [<5]	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	5100 [5050]	5	16600	5	14300	5	27300	5	ug/L
Dissolved Manganese	<1 [<1]	1	<1	1	2	1	2	1	ug/L
Dissolved Mercury	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Molybdenum	<1 [1]	1	<1	1	2	1	<1	1	ug/L
Dissolved Nickel	3 [3]	1	3	1	3	1	5	1	ug/L
Dissolved Niobium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50 [<50]	50	<50	50	<50	50	<50	50	ug/L
Dissolved Potassium	590 [590]	100	1000	100	980	100	750	100	ug/L
Dissolved Rubidium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Scandium	<1 [<1]	1	1	1	1	1	2	1	ug/L
Dissolved Selenium	<0.5 [<0.5]	0.5	<0.5	0.5	0.6	0.5	0.7	0.5	ug/L
Dissolved Silicon	2300 [2300]	600	3400	600	3300	600	5200	600	ug/L
Dissolved Silver	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	1620 [1620]	100	4150	100	4860	100	2150	100	ug/L
Dissolved Strontium	121 [121]	1	100	1	111	1	173	1	ug/L
Dissolved Sulfur	1500 [1400]	800	6900	800	2500	800	2800	800	ug/L
Dissolved Tellurium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1 [<0.1]	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW12 - A		OW13 - A		OW13 - B		OW14 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549327		1549328		1549329		1549330		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Titanium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1 [<1]	1	<1	1	<1	1	2	1	ug/L
Dissolved Yttrium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	15 [15]	1	2	1	23	1	42	1	ug/L
Dissolved Zirconium	<1 [<1]	1	<1	1	<1	1	<1	1	ug/L
Sample Description	OW16 - B		OW18 - A		OW18 - B		OW19 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549331		1549332		1549333		1549334		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	50	2	3360	20	35	2	151	2	ug/L
Dissolved Antimony	<0.5	0.5	0.9	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	26	1	68	1	31	1	165	10	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	5	2	10	2	7	2	12	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	41100	500	86400	500	66400	500	104000	500	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW16 - B		OW18 - A		OW18 - B		OW19 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549331		1549332		1549333		1549334		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Cerium	<1	1	7	1	<1	1	3	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	2	1	6	1	3	1	5	1	ug/L
Dissolved Cobalt	0.2	0.1	1.1	0.1	0.2	0.1	0.7	0.1	ug/L
Dissolved Copper	<1	1	9	1	2	1	3	1	ug/L
Dissolved Europium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	<1	1	3	1	1	1	5	1	ug/L
Dissolved Iron	190	20	2060	200	290	20	515	20	ug/L
Dissolved Lanthanum	<1	1	3	1	<1	1	<1	1	ug/L
Dissolved Lead	0.8	0.1	2.8	0.1	0.5	0.1	6.9	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	10500	5	20400	5	16300	5	30200	5	ug/L
Dissolved Manganese	13	1	115	1	22	1	71	1	ug/L
Dissolved Mercury	<0.1	0.1	0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Nickel	2	1	6	1	3	1	5	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	88	50	<50	50	<50	50	ug/L
Dissolved Potassium	560	100	1680	100	1070	100	5120	100	ug/L
Dissolved Rubidium	<1	1	4	1	<1	1	2	1	ug/L
Dissolved Scandium	<1	1	3	1	<1	1	2	1	ug/L
Dissolved Selenium	0.6	0.5	0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	2700	600	9230	600	3000	600	4800	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW16 - B		OW18 - A		OW18 - B		OW19 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549331		1549332		1549333		1549334		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Sodium	1390	100	2240	100	1950	100	3530	100	ug/L
Dissolved Strontium	73	1	134	1	96	1	175	1	ug/L
Dissolved Sulfur	3300	800	7700	800	3500	800	7300	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Titanium	2	1	61	1	2	1	2	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	4	1	1	1	2	1	ug/L
Dissolved Yttrium	<1	1	2	1	<1	1	<1	1	ug/L
Dissolved Zinc	13	1	16	1	8	1	114	1	ug/L
Dissolved Zirconium	<1	1	4	1	<1	1	<1	1	ug/L

Sample Description	OW20 - B		OW21 - B		OW22 - B		OW23 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549335		1549336		1549337		1549338		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	2760	20	614	2	44	2	23	2	ug/L
Dissolved Antimony	1.0	0.5	0.6	0.5	4.4	0.5	0.7	0.5	ug/L
Dissolved Arsenic	3	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	319	10	80	1	72	1	26	1	ug/L
Dissolved Beryllium	1.1	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L





**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW20 - B		OW21 - B		OW22 - B		OW23 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549335		1549336		1549337		1549338		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	11	2	6	2	7	2	8	2	ug/L
Dissolved Cadmium	2.7	0.1	0.2	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	445000	5000	108000	500	79700	500	73000	500	ug/L
Dissolved Cerium	76	1	7	1	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Chromium	14	1	5	1	4	1	4	1	ug/L
Dissolved Cobalt	3.9	0.1	1.3	0.1	0.2	0.1	0.2	0.1	ug/L
Dissolved Copper	27	1	7	1	3	1	3	1	ug/L
Dissolved Europium	2	1	<1	1	<1	1	<1	1	ug/L
Dissolved Gallium	9	1	3	1	2	1	<1	1	ug/L
Dissolved Iron	4480	200	1100	200	281	20	230	20	ug/L
Dissolved Lanthanum	32	1	2	1	<1	1	<1	1	ug/L
Dissolved Lead	47.3	0.1	15.0	0.1	0.4	0.1	0.3	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	87800	50	42600	5	28900	5	27200	5	ug/L
Dissolved Manganese	1220	10	104	1	11	1	4	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Nickel	21	1	6	1	4	1	3	1	ug/L
Dissolved Niobium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Phosphorus	1410	50	110	50	<50	50	<50	50	ug/L
Dissolved Potassium	1320	100	850	100	1060	100	1510	100	ug/L
Dissolved Rubidium	6	1	2	1	<1	1	1	1	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	OW20 - B		OW21 - B		OW22 - B		OW23 - B		
Sample Date	[Not Provided]		[Not Provided]		[Not Provided]		[Not Provided]		
Lab ID	1549335		1549336		1549337		1549338		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Scandium	3	1	2	1	2	1	1	1	ug/L
Dissolved Selenium	1.6	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	6460	600	4700	600	4900	600	4300	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	4470	100	2850	100	3860	100	4180	100	ug/L
Dissolved Strontium	545	1	143	1	138	1	108	1	ug/L
Dissolved Sulfur	3100	800	4700	800	13600	800	7400	800	ug/L
Dissolved Tellurium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	3	1	4	1	10	1	7	1	ug/L
Dissolved Titanium	29	1	4	1	2	1	1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	2	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	9	1	2	1	1	1	1	1	ug/L
Dissolved Yttrium	30	1	2	1	<1	1	<1	1	ug/L
Dissolved Zinc	321	10	153	10	15	1	14	1	ug/L
Dissolved Zirconium	5	1	<1	1	<1	1	<1	1	ug/L

Sample Description	NORTH POND		SOUTH POND		
Sample Date	[Not Provided]		[Not Provided]		
Lab ID	1549339		1549340		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Aluminum	7	2	18	2	ug/L



**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	NORTH POND		SOUTH POND		
Sample Date	[Not Provided]		[Not Provided]		
Lab ID	1549339		1549340		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Antimony	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	ug/L
Dissolved Barium	39	1	12	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	ug/L
Dissolved Boron	9	2	10	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	68800	500	49700	500	ug/L
Dissolved Cerium	<1	1	<1	1	ug/L
Dissolved Cesium	<1	1	<1	1	ug/L
Dissolved Chromium	3	1	2	1	ug/L
Dissolved Cobalt	0.3	0.1	0.2	0.1	ug/L
Dissolved Copper	<1	1	<1	1	ug/L
Dissolved Europium	<1	1	<1	1	ug/L
Dissolved Gallium	1	1	<1	1	ug/L
Dissolved Iron	465	20	523	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	ug/L
Dissolved Lead	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Lithium	<5	5	<5	5	ug/L
Dissolved Magnesium	11000	5	5030	5	ug/L
Dissolved Manganese	299	1	199	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	<1	1	ug/L
Dissolved Nickel	3	1	2	1	ug/L



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

**CERTIFICATE OF ANALYSIS**

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

Sample Description	NORTH POND		SOUTH POND		
Sample Date	[Not Provided]		[Not Provided]		
Lab ID	1549339		1549340		
Metals (Dissolved)	Result	MDL	Result	MDL	Units
Dissolved Niobium	<1	1	<1	1	ug/L
Dissolved Phosphorus	<50	50	<50	50	ug/L
Dissolved Potassium	2420	100	2890	100	ug/L
Dissolved Rubidium	3	1	4	1	ug/L
Dissolved Scandium	<1	1	<1	1	ug/L
Dissolved Selenium	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Silicon	1700	600	980	600	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	2370	100	750	100	ug/L
Dissolved Strontium	105	1	93	1	ug/L
Dissolved Sulfur	1400	800	<800	800	ug/L
Dissolved Tellurium	<1	1	<1	1	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	ug/L
Dissolved Titanium	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	<1	1	ug/L
Dissolved Yttrium	<1	1	<1	1	ug/L
Dissolved Zinc	2	1	3	1	ug/L
Dissolved Zirconium	<1	1	<1	1	ug/L





**TESTMARK Laboratories Ltd.**  
*Committed to Quality and Service*

## CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 403737

### LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

## Denise Holmes

---

**From:** Kera Mombourquette <kmombourquette@dufferincounty.ca>  
**Sent:** Thursday, March 11, 2021 4:23 PM  
**To:** Denise Holmes; Wendy Atkinson  
**Subject:** 2020 Building Report  
**Attachments:** YTDReport - ME 2020.pdf

Good Afternoon,

Attached is the 2020 Building Report.

Kind regards,

**Kera Mombourquette, Administrative Support Specialist | Development and Tourism | County of Dufferin**

519 941.2816 or toll free 877 941.7787 Extension 2705 | [kmombourquette@dufferincounty.ca](mailto:kmombourquette@dufferincounty.ca)  
55 Zina Street, Orangeville, Ontario L9W 1E5

*We are a new department of the County of Dufferin!* The Development and Tourism Department includes Planning, Building Services, Economic Development, Tourism Services and the Museum of Dufferin.

Visit our services online at [DufferinCounty.ca](http://DufferinCounty.ca) | [JoinInDufferin.ca](http://JoinInDufferin.ca) | [DufferinMuseum.com](http://DufferinMuseum.com) | [Building Portal](#)

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**Dufferin County**  
**Building Permit Report YTD [Date Entered]**  
From: 1/1/2020 To: 12/31/2020

Jurisdiction	Year	Month	Application	Work Class	Const. Type	Count	Valuation	Fees		
Melancthon	2020	<b>Sub Total for: Melancthon :</b>					<b>74</b>	<b>\$13474039.00</b>	<b>\$158410.78</b>	
		<b>Sub Total for: 2020 :</b>					<b>74</b>	<b>\$13474039.00</b>	<b>\$158410.78</b>	
		February	<b>Sub Total for: February :</b>					<b>6</b>	<b>\$6260000.00</b>	<b>\$26294.23</b>
			New Non-Residential	03-Alteration and improvements			1	\$5000000.00	\$6950.28	
					410-03	PRNR2020		\$5000000.00	\$6950.28	
			New Single Family Dwelling (SFD)	01-New construction			3	\$1250000.00	\$19343.95	
					110-01	A00000301		\$400000.00	\$6272.21	
					110-01	A00000301		\$400000.00	\$5902.82	
					110-01	PRSF20200		\$450000.00	\$7168.92	
			Septic	01-New construction			2	\$10000.00		
					110-01	A00000301		\$0.00		
					110-01	A00000301		\$10000.00		
		March	<b>Sub Total for: March :</b>					<b>5</b>	<b>\$406000.00</b>	<b>\$7198.10</b>
			Addition	02-Addition to existing building non-residential & residential			1	\$0.00	\$3114.02	
					410-02	PRAD2020		\$0.00	\$3114.02	
			Demolition	00-Demolition			1	\$30000.00	\$160.00	
					110-00	PRDE20200		\$30000.00	\$160.00	
			New Non-Residential	01-New construction			1	\$75000.00	\$1359.08	
					460-01	PRNR2020		\$75000.00	\$1359.08	
			Renovation	03-Alteration and improvements			1	\$70000.00	\$856.80	
					110-03	PRRN2020		\$70000.00	\$856.80	
			New Single Family Dwelling (SFD)	01-New construction			1	\$231000.00	\$1708.20	
					110-01	PRSF20200		\$231000.00	\$1708.20	
		April	<b>Sub Total for: April :</b>					<b>3</b>	<b>\$375000.00</b>	<b>\$4626.58</b>
			Accessory Building	15-Garage/Carport/Accessory Structure			1	\$25000.00	\$485.28	
					110-15	PRAB20200		\$25000.00	\$485.28	
			Addition	02-Addition to existing building non-residential & residential			1	\$200000.00	\$2605.14	
			110-02	PRAD2020		\$200000.00	\$2605.14			
	New Non-Residential	01-New construction			1	\$150000.00	\$1536.16			
			410-01	PRNR2020		\$150000.00	\$1536.16			
May	<b>Sub Total for: May :</b>					<b>8</b>	<b>\$1213000.00</b>	<b>\$12690.82</b>		
	Addition	02-Addition to existing building non-residential & residential			1	\$125000.00	\$1714.88			
			410-02	PRAD2020		\$125000.00	\$1714.88			
	Change of Use	10-Deconversion from single to			1	\$0.00	\$212.94			

**Dufferin County**  
**Building Permit Report YTD [Date Entered]**  
From: 1/1/2020 To: 12/31/2020

Jurisdiction	Year	Month	Application	Work Class	Const. Type	Count	Valuation	Fees	
				non-residential building	520-10	PRCU2020	\$0.00	\$212.94	
			New Non-Residential	01-New construction		4	\$513000.00	\$4347.92	
					410-01	PRNR2020		\$400000.00	\$3337.92
					460-01	PRNR2020		\$10000.00	\$290.00
					460-01	PRNR2020		\$3000.00	\$240.00
					460-01	PRNR2020		\$100000.00	\$480.00
						03-Alteration and improvements		1	\$300000.00
					410-03	PRNR2020	\$300000.00	\$1669.56	
			New Single Family Dwelling (SFD)	01-New construction		1	\$275000.00	\$4745.52	
						110-01	PRSF20200	\$275000.00	\$4745.52
		June	<b>Sub Total for: June :</b>				<b>8</b>	<b>\$460500.00</b>	<b>\$7967.46</b>
			Accessory Building	03-Alteration and improvements		1	\$25000.00	\$160.00	
						110-03	PRAB20200	\$25000.00	\$160.00
			Addition	02-Addition to existing building non-residential & residential		1	\$150000.00	\$1812.92	
						410-02	PRAD2020	\$150000.00	\$1812.92
			Demolition	00-Demolition		2	\$13500.00	\$320.00	
						110-00	PRDE20200	\$10000.00	\$160.00
						110-00	PRDE20200	\$3500.00	\$160.00
			Deck	03-Alteration and improvements		1	\$12000.00	\$320.00	
						110-03	PRDK2020	\$12000.00	\$320.00
			New Non-Residential	02-Addition to existing building non-residential & residential		1	\$40000.00	\$283.92	
						460-02	PRNR2020	\$40000.00	\$283.92
			New Single Family Dwelling (SFD)	01-New construction		1	\$200000.00	\$4680.62	
						110-01	PRSF20200	\$200000.00	\$4680.62
			Septic	03-Alteration and improvements		1	\$20000.00	\$390.00	
						110-03	PRSP20200	\$20000.00	\$390.00
		July	<b>Sub Total for: July :</b>				<b>9</b>	<b>\$1110500.00</b>	<b>\$18784.13</b>
			Addition	02-Addition to existing building non-residential & residential		1	\$25000.00	\$240.00	
						410-02	PRAD2020	\$25000.00	\$240.00
			New Non-Residential	01-New construction		2	\$130000.00	\$1143.75	
						460-01	PRNR2020	\$100000.00	\$480.00
						460-01	PRNR2020	\$30000.00	\$663.75
						03-Alteration and improvements		4	\$650000.00
					410-03	PRNR2020	\$300000.00	\$3952.80	



**Dufferin County**  
**Building Permit Report YTD [Date Entered]**  
From: 1/1/2020 To: 12/31/2020

Jurisdiction	Year	Month	Application	Work Class	Const. Type	Count	Valuation	Fees
					410-03	PRNR2020	\$250000.00	\$3859.20
					410-03	PRNR2020	\$20000.00	\$480.00
					410-03	PRNR2020	\$80000.00	\$480.00
			New Single Family Dwelling (SFD)	01-New construction		1	\$300000.00	\$8468.38
					110-01	PRSF20200	\$300000.00	\$8468.38
			Sign	01-New construction		1	\$5500.00	\$160.00
						PRSG20200	\$5500.00	\$160.00
		August	<b>Sub Total for: August :</b>			<b>13</b>	<b>\$1655000.00</b>	<b>\$37518.72</b>
			Accessory Building	03-Alteration and improvements		3	\$145000.00	\$1852.48
					410-03	PRAB20200	\$80000.00	\$966.64
					110-03	PRAB20200	\$50000.00	\$725.84
					110-03	PRAB20200	\$15000.00	\$160.00
			Demolition	00-Demolition		1	\$10000.00	\$160.00
					110-00	PRDE20200	\$10000.00	\$160.00
			New Non-Residential	01-New construction		2	\$210000.00	\$3245.92
					410-01	PRNR2020	\$50000.00	\$480.00
					410-01	PRNR2020	\$160000.00	\$2765.92
				03-Alteration and improvements		2	\$185000.00	\$4606.18
					460-03	PRNR2020	\$110000.00	\$480.00
					410-03	PRNR2020	\$75000.00	\$4126.18
			Renovation	03-Alteration and improvements		1	\$0.00	\$160.00
					110-03	PRRN2020	\$0.00	\$160.00
			Secondary Dwelling Unit	03-Alteration and improvements		1	\$5000.00	\$3006.20
					110-03	PRSD20200	\$5000.00	\$3006.20
			New Single Family Dwelling (SFD)	01-New construction		3	\$1100000.00	\$24487.94
					110-01	PRSF20200	\$300000.00	\$5121.94
					110-01	PRSF20200	\$500000.00	\$8158.84
					110-01	PRSF20200	\$300000.00	\$11207.16
		September	<b>Sub Total for: September :</b>			<b>11</b>	<b>\$1462000.00</b>	<b>\$25167.26</b>
			Accessory Building	03-Alteration and improvements		1	\$75000.00	
					110-03	PRAB20200	\$75000.00	
				15-Garage/Carport/Accessory Structure		1	\$7000.00	\$357.76
					110-15	PRAB20200	\$7000.00	\$357.76
			Addition	02-Addition to existing building		1	\$50000.00	\$480.00

**Dufferin County**  
**Building Permit Report YTD [Date Entered]**  
**From: 1/1/2020 To: 12/31/2020**

Jurisdiction	Year	Month	Application	Work Class	Const. Type	Count	Valuation	Fees
				non-residential & residential		PRAD2020	\$50000.00	\$480.00
			Demolition	00-Demolition		1	\$5000.00	\$160.00
					110-00	PRDE20200	\$5000.00	\$160.00
			New Non-Residential	01-New construction		1	\$0.00	\$160.00
						PRNR2020	\$0.00	\$160.00
				03-Alteration and improvements		2	\$100000.00	\$1460.88
					460-03	PRNR2020	\$10000.00	\$480.00
					410-03	PRNR2020	\$90000.00	\$980.88
			Relocate Existing Building	03-Alteration and improvements		1	\$25000.00	\$480.00
					410-03	PRRB20200	\$25000.00	\$480.00
			New Single Family Dwelling (SFD)	01-New construction		3	\$1200000.00	\$22068.62
					110-01	PRSF20200	\$250000.00	\$4745.52
					110-01	PRSF20200	\$350000.00	\$8105.82
					110-01	PRSF20200	\$600000.00	\$9217.28
		October		<b>Sub Total for: October :</b>		<b>4</b>	<b>\$14000.00</b>	<b>\$1260.00</b>
			Accessory Building	03-Alteration and improvements		2	\$0.00	\$160.00
					110-03	PRAB20200	\$0.00	
					410-03	PRAB20200	\$0.00	\$160.00
				15-Garage/Carport/Accessory Structure		1	\$6000.00	\$160.00
					110-15	PRAB20200	\$6000.00	\$160.00
			Septic	01-New construction		1	\$8000.00	\$940.00
					410-01	PRSP20200	\$8000.00	\$940.00
		November		<b>Sub Total for: November :</b>		<b>3</b>	<b>\$62539.00</b>	<b>\$560.00</b>
			Addition	02-Addition to existing building non-residential & residential		1	\$25000.00	\$160.00
						PRAD2020	\$25000.00	\$160.00
			New Non-Residential	01-New construction		1	\$2500.00	\$240.00
					460-01	PRNR2020	\$2500.00	\$240.00
			Sign	03-Alteration and improvements		1	\$35039.00	\$160.00
					612-03	PRSG20200	\$35039.00	\$160.00
		December		<b>Sub Total for: December :</b>		<b>4</b>	<b>\$455500.00</b>	<b>\$16343.48</b>
			Accessory Building	03-Alteration and improvements		1	\$100000.00	\$478.16
					110-03	PRAB20200	\$100000.00	\$478.16
			New Single Family Dwelling (SFD)	01-New construction		2	\$350000.00	\$15705.32
					110-01	PRSF20200	\$0.00	\$7502.04

**Dufferin County**  
**Building Permit Report YTD [Date Entered]**  
**From: 1/1/2020 To: 12/31/2020**

Jurisdiction	Year	Month	Application	Work Class	Const. Type	Count	Valuation	Fees
					110-01	PRSF20200	\$350000.00	\$8203.28
			Sign	03-Alteration and improvements		1	\$5500.00	\$160.00
					110-03	PRSG20200	\$5500.00	\$160.00

## Denise Holmes

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**From:** Kim Fraser <kfraser@shelburne.ca>  
**Sent:** Tuesday, March 2, 2021 2:53 PM  
**To:** Carey Holmes; Jennifer Willoughby; Denise Holmes; Nicole Martin; Catherine Goustos; clerksoffice@townofmono.com; Mark Early  
**Cc:** Chris Gerrits; Heather Foster; 'Laura Ryan'; Darren White; Margaret Mercer; Steve Anderson; Lindsay Wegener  
**Subject:** CDRC - 2021 Draft Budget - Approved  
**Attachments:** 2021 Budget Letter to Municipalities.pdf

Hello,

For your review and approval, please find attached the CDRC 2021 approved budget report

Thank you

**Kim Fraser**  
Facility Administration Manager

Centre Dufferin Recreation Complex  
200 Fiddle Park Lane, Shelburne ON  
L9V 3C9  
519.925.2400  
[kfraser@shelburne.ca](mailto:kfraser@shelburne.ca)



**March 1, 2021**

**To:**

Town of Shelburne

Township of Amaranth

Township of Melancthon

Town of Mono

**Subject: 2021 CDRC Budget**

At the CDRC Board of Management meeting held on February 24<sup>th</sup> 2021, the Board unanimously voted to approve the attached budget for 2021. Also attached is the detailed 5 year capital plan and an updated 5 year financial forecast.

The municipal contribution associated with this budget is \$336,815 (3% increase from 2020) plus a one-time assessment of \$150,000 required to cover the estimated \$160,000 loss resulting from the impact of Covid-19.

The \$160 Covid loss is summarized as follows:

<b>Total Impact of COVID on 2020 Actuals and 2021 Budget</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
Ice Profit Reduction (ice rentals less saved wages)	\$70	\$90	\$160
Floor & Room Rental	\$35	\$0	\$35
Cancellation or modification of Camp, Pool, Concession	\$15	\$10	\$25
Operational Savings (reduced operating hrs Arena & Pool	-\$50	-\$10	-\$60
<b>Total</b>	<b>\$70</b>	<b>\$90</b>	<b>\$160</b>

The impact of Covid can further be explained as follows. In 2020 ice rentals ended in mid- March, all floor rentals were cancelled, Day Camp was cancelled, a modified (reduced) Pool Program was offered, there were limited fall ice rentals, and concession sales were heavily impacted. In 2021, we have budgeted for no ice rentals, room rentals, recreational programs or concession sales for the period of January to March. If provincial restrictions remain in place in May, there will be a major impact to this budget.

The funding breakdown by municipality is as follows:

<b>Municipality</b>	<b>Budget</b>	<b>Covid</b>	<b>Total</b>
Shelburne	\$208,825	\$93,000	\$301,825
Amaranth	\$50,522	\$22,500	\$73,022
Merlancthon	\$50,522	\$22,500	\$73,022
Mono	\$26,945	\$12,000	\$38,945
<b>Total</b>	<b>\$336,815</b>	<b>\$150,000</b>	<b>\$486,814</b>

With the addition of the \$150,000 in Covid funding, the CDRC will be back on track to fully fund the roof repairs of \$710,000 slated for 2021 – 2022.

Should you have any questions or need additional information, please contact your representative on the Board of Management or contact me directly.

Kim Fraser  
Facility Administration Manager

**CDRC 2021 APPROVED BUDGET & 2020 ACTUAL VS BUDGET February 24, 2021**

Description	FULL YEAR						Comments vs 20 Budget
	2021 Budget	2020 Actual	2020 Budget	2019 Actual	21 vs 20 Bud		
Arena Rentals	\$117,032	\$158,832	\$269,688	\$256,555	-\$152,657	-57%	HTI \$20k, Jan - Mar \$130k
Floor Rental	\$20,772	\$220	\$21,930	\$21,469	-\$1,158	-5%	
Advertising	\$8,100	\$9,568	\$15,125	\$10,545	-\$7,025	-46%	Impact of COVID
Programs	\$20,678	\$2,581	\$6,744	\$948	\$13,934	207%	Additional Programs
Room Rental	\$12,828	\$9,827	\$21,335	\$25,839	-\$8,507	-40%	No rentals Jan - Mar
Concession Sales	\$51,250	\$25,865	\$84,660	\$85,408	-\$33,410	-39%	No Sales - Jan - Mar
Pool Fees	\$86,294	\$46,664	\$74,150	\$80,480	\$12,144	16%	WLS & Instructors Programs
Day Camp Fees	\$67,250	\$0	\$60,500	\$55,913	\$6,750	11%	Xmas
Grants	\$5,000	\$3,920	\$9,894	\$9,730	-\$4,894	-49%	
<b>Total Operating Revenue</b>	<b>\$389,443</b>	<b>\$257,706</b>	<b>\$564,026</b>	<b>\$547,132</b>	<b>-\$174,583</b>	<b>-31%</b>	
Payroll	\$388,334	\$310,834	\$422,437	\$397,807	-\$34,103	-8%	Covid + 2% wage \$8k
Benefits	\$72,378	\$59,158	\$71,600	\$63,155	\$777	1%	
Bank Charges	\$989	\$866	\$1,100	\$1,063	-\$110	-10%	
Maintenance	\$97,930	\$74,611	\$93,696	\$74,313	\$4,234	5%	Pool \$4k
Utilities	\$130,028	\$110,453	\$146,746	\$151,816	-\$16,718	-11%	Jan - Mar shutdown Covid
Vending	\$20,250	\$9,228	\$40,800	\$40,467	-\$20,550	-50%	No Sales - Jan - Mar
Admin	\$47,180	\$38,429	\$43,776	\$36,451	\$3,404	8%	Insurance \$5k
<b>Total Operating Expense</b>	<b>\$757,089</b>	<b>\$603,579</b>	<b>\$820,156</b>	<b>\$765,071</b>	<b>-\$63,067</b>	<b>-8%</b>	
<b>Operating (Gain)/Loss</b>	<b>\$367,646</b>	<b>\$345,873</b>	<b>\$256,129</b>	<b>\$217,939</b>	<b>\$111,516</b>	<b>44%</b>	
Capital Costs	\$67,000	\$32,201	\$48,500	\$57,183	\$18,500	38%	\$25k regular, \$42k roof
Capital Grants	-\$31,000	\$0	\$0	\$0	-\$31,000		Roof grant
<b>Total Capital Expense</b>	<b>\$36,000</b>	<b>\$32,201</b>	<b>\$48,500</b>	<b>\$57,183</b>	<b>-\$12,500</b>	<b>-26%</b>	
<b>Total (Gain)/Loss</b>	<b>\$403,646</b>	<b>\$378,075</b>	<b>\$304,629</b>	<b>\$275,121</b>	<b>\$99,016</b>	<b>33%</b>	
Municipal Contribution	\$336,815	\$327,004	\$327,004	\$317,478	\$9,810	3%	3% increase
Municipal Covid Contribution	\$150,000	\$0	\$0	\$0	\$150,000		Cover 20/21 loss due to Covid
<b>Total Municipal Funding</b>	<b>\$486,815</b>	<b>\$327,004</b>	<b>\$327,004</b>	<b>\$317,478</b>	<b>\$159,810</b>	<b>49%</b>	
<b>Net Financial (Gain)/Loss</b>	<b>\$216,831</b>	<b>\$51,071</b>	<b>-\$22,375</b>	<b>-\$42,357</b>	<b>\$239,206</b>	<b>-1069%</b>	

<b>CAPITAL EXPENDITURES</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>
<b>Roof</b>					
Replace Arena Roof	\$42,000	\$668,000			
<b>Arena</b>					
Structural Steel Clean & Paint		\$20,000			
Replace Large Doors		\$10,000			
Dasher and Glass Replacement				\$25,000	
<b>Equipment</b>					
Olympia					\$60,000
<b>Town &amp; Country Room</b>					
Refinish Floor			\$9,000		
Heating new Covers			\$5,000		
New Lighting				\$5,000	
<b>Pool</b>					
2x Motors and Pumps			\$10,000		
<b>Grounds</b>					
Parking lot repave (deferred 1 yr)				\$150,000	
Pave Gravel Parking Lot					\$200,000
Electronic Road Sign			\$35,000		
<b>Building</b>					
Building Condition Assessment	\$15,000				
Snack Bar Exhaust Upgrade		\$5,000			
<b>IT (as per detailed County Plan)</b>					
Laptops, Monitors, Docking Stn				\$6,000	
<b>Unforecast</b>					
Emergency or Unforseen	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
<b>Total</b>	<b>\$67,000</b>	<b>\$713,000</b>	<b>\$69,000</b>	<b>\$196,000</b>	<b>\$270,000</b>

### 2021 CDRC BUDGET 5 YEAR FORECAST (\$000)

Year	2020	2020	2021	2022	2023	2024	2025
Scenario	Budget	Actual	Budget	Estimate	Estimate	Estimate	Estimate
Opening Surplus/Reserves	\$183	\$180	\$129	\$212	\$59	\$71	-\$33
+ Municipal Contribution	\$327	\$327	\$337	\$347	\$357	\$368	\$379
+ Covid Relief Municipal Funding			\$150				
- Operating Loss	-\$256	-\$346	-\$368	-\$276	-\$276	-\$276	-\$276
+ Capital Grants			\$31	\$489			
- Capital Roof Cost			-\$42	-\$668			
- Capital Cost	-\$49	-\$32	-\$25	-\$45	-\$69	-\$196	-\$270
= Closing Surplus/Reserves	\$205	\$129	\$212	\$59	\$71	-\$33	-\$200

**Assumptions:**

3% municipal funding increase each year (per 2020 approved budget & 5 year plan)

Municipal Covid Relief Funding \$150 (see details of actual loss below)

Holding operating loss steady based on 2020 budget from 2022 - 2025

Roof Project for \$710k offset by \$520 grant is approved and executed

Total Impact of COVID on 2020 Actuals and 2021 Budget	2020	2021	Total
Ice Profit Reduction (ice rentals less saved wages)	\$70	\$90	\$160
Floor & Room Rental	\$35	\$0	\$35
Cancellation or modification of Camp, Pool, Concession	\$15	\$10	\$25
Operational Savings (reduced operating hrs Arena & Pool)	-\$50	-\$10	-\$60
<b>Total</b>	<b>\$70</b>	<b>\$90</b>	<b>\$160</b>



## NDCC Board of Management 2021 Budget

updated Feb 26, 2021

Account	Description	2019 Actual	2019 Budget	2020 Actual	Final 2020 Budget	Draft #1 2021 Budget	Budget Variance	Comments
<b>REVENUES</b>								
01-2000-4000	MULMUR GRANT	55,024	55,024	54,410	54,410	53,349	(1,062)	-1.95%
01-2000-4010	MELANCTHON GRANT	55,024	55,024	54,410	54,410	53,349	(1,062)	-1.95%
01-2000-4020	DONATION REVENUE	3,239	-	-	-	-	0	
01-2000-4030	FUNDRAISING REVENUE	19,047	20,000	-	-	-	0	
01-2000-4100	MINOR RATE RENTAL REVENUE	54,021	45,000	46,708	54,000	30,600	(23,400)	Jan & Feb Rentals typically \$16000, increase of 2% Removed Jan/Feb rentals, increase of 2%
01-2000-4110	ICE RENTAL REVENUE (PRIME)	50,823	52,000	41,956	51,000	29,580	(21,420)	Higher in 2020 due to COVID
01-2000-4115	ICE RENTAL REVENUE (NON-PRIME)	1,633	500	1,736	500	510	10	
01-2000-4120	NON-RESIDENT USER FEES	3,696	3,250	4,215	3,250	-	(3,250)	
01-2000-4200	BOOTH RENTAL REVENUE	2,170	5,000	1,174	2,100	2,000	(100)	
01-2000-4210	HALL RENTAL REVENUE	4,012	2,600	-	4,000	1,000	(3,000)	Unpredictable due to COVID
01-2000-4220	FLOOR RENTAL REVENUE	97	-	-	-	-	0	
01-2000-4230	SIGN RENTAL REVENUE	3,840	4,160	4,250	3,800	3,580	(220)	
01-2000-4240	VENDING MACHINE REVENUE	109	-	-	-	-	0	
01-2000-4300	PENALTIES & INTEREST	869	525	902	850	850	0	
01-2000-4500	PRIOR YEAR SURPLUS/(DEFICIT)	(29,582)	(29,582)	(5,860)	(5,860)	33,947	39,808	
<b>TOTAL REVENUE</b>		<b>224,021</b>	<b>213,500</b>	<b>203,902</b>	<b>222,461</b>	<b>208,765</b>	<b>(13,696)</b>	
<b>EXPENSES</b>								
01-2000-7000	WAGES	68,452	55,000	58,972	70,000	72,000	2,000	
01-2000-7005	BENEFITS-EI/PPP/WSIB/EHT	5,478	5,600	5,182	5,600	5,600	0	
01-2000-7010	BENEFITS-OMERS	-	-	4,569	4,950	5,254	304	
01-2000-7012	MILEAGE	284	-	304	300	300	0	
01-2000-7015	STAFF TRAINING/DUES, FEES, SUBSCRIP	1,149	300	185	1,000	1,000	0	Incls. membership fee, CPR training
01-2000-7100	OFFICE/COMPUTER SUPPLIES	2,428	1,700	1,889	2,000	2,000	0	Keystone
01-2000-7110	COMMUNICATION	1,968	3,000	877	2,000	2,000	0	
01-2000-7115	INSURANCE	12,518	12,200	15,419	13,300	16,000	2,700	
01-2000-7120	HEALTH & SAFETY	1,903	2,800	2,541	2,000	2,500	500	
01-2000-7125	PROF FEES - AUDIT	611	1,400	600	611	611	0	
01-2000-7130	PROF FEES - WATER TESTING	393	300	259	400	400	0	
01-2000-7150	BANK CHARGES	772	400	1,370	500	1,200	700	
01-2000-7200	HYDRO	50,085	60,000	28,532	50,000	40,000	(10,000)	Low in 2020 due to COVID
01-2000-7210	FURNACE FUEL/ZAMB PROPANE	14,712	12,000	9,750	15,000	10,000	(5,000)	Incl: water heater propane Decrease in grass cutting by \$6,480, Snow Removal \$1,500 in 2020, add 1 mower fuel & Mtn
01-2000-7220	BLDG/GROUNDS MAINTENANCE	18,293	20,000	27,463	18,500	20,000	1,500	
01-2000-7230	BOOTH MAINTENANCE	1,918	1,300	372	3,300	400	(2,900)	booth propane Ice in/out, calcium, zamboni repairs, blade sharpening
01-2000-7240	ICE PLANT/MACH MAINT	18,153	12,000	11,147	18,000	12,000	(6,000)	
01-2000-7300	FUNDRAISING EXPENSE	10,993	10,500	-	-	-	0	
01-2000-7400	BAD DEBT	399	-	525	-	-	0	
01-2000-7500	CAPITAL PURCHASES	19,372	15,000	-	15,000	17,500	2,500	Incl lawn mower/trimmer \$10,800 & water leak repair \$6670
<b>TOTAL EXPENSES</b>		<b>229,881</b>	<b>213,500</b>	<b>169,955</b>	<b>222,461</b>	<b>208,765</b>	<b>(13,696)</b>	<b>-6.16%</b>
<b>Net Income/(Deficit)</b>		<b>(5,860)</b>	<b>0</b>	<b>33,947</b>	<b>0</b>	<b>0</b>		

ACT # 2  
MAR 1 8 2021

**THE CORPORATION OF THE TOWNSHIP OF MELANCTHON**

**BY-LAW NUMBER -2021**

BEING A BY-LAW TO ADOPT THE ESTIMATES OF ALL SUMS REQUIRED DURING THE YEAR AND TO STRIKE THE RATES OF TAXATION, AND TO FURTHER PROVIDE FOR PENALTY AND INTEREST IN DEFAULT OF PAYMENT THEREOF FOR THE YEAR 2021

**WHEREAS** the Council of the Corporation of the Township of Melancthon has, in accordance with the Municipal Act, 2001, S.O. 2001, Chapter 25 as amended, Section 290 (1)(2)(3)(4) and Section 291 (1) considered the estimates of the Municipality for the year 2021;

**AND WHEREAS** pursuant to the County of Dufferin By-law No. 2021-07 , the County of Dufferin passed a by-law to set tax ratios and to set tax rate reductions for prescribed property subclasses for county purposes and lower tier municipal purposes;

**AND WHEREAS** the tax ratios established the relative amount of taxation to be borne by each property class and have been set for the taxation year 2021 under the authority of the Municipal Act, 2001, S.O. 2001, Chapter 25 Section 308(5) as follows:

Residential Class is	1.0000
Multi-residential Class is	2.0000
New Multi-Residential is	1.1000
Commercial Class is	1.2200
Industrial Class is	2.1984
Landfill Class is	1.1815
Pipeline Class is	0.8421
Farmland Class is	0.2200
Managed Forest Class is	0.2500

**AND WHEREAS** all property assessment rolls on which the 2021 taxes are to be levied have been returned and revised pursuant to the provision of the Assessment Act, R.S.O. 1990, c.A.31, as amended (hereinafter referred to as the "Assessment Act") subject to appeals at present before the Assessment Review Board, the Ontario Municipal Board and the District Court;

**AND WHEREAS** the "Residential/Farm Assessment", "Multi-Residential Assessment", "Commercial Assessment", "Industrial Assessment", "Pipeline Assessment", "Farmlands Assessment" and "Managed Forests Assessment" and the applicable subclasses pursuant to Section 7 of the Assessment Act, as amended by the Fair Municipal Finance Act, 1997 and Regulations thereto, have been determined on the basis of the aforementioned property assessment rolls and are detailed on Schedule "A" attached hereto and which forms part hereof;

**AND WHEREAS** pursuant to the County of Dufferin By-law 2021-06, the County of Dufferin passed a by-law to adopt the estimates of all sums required by the County of Dufferin for the purposes of the County and to provide a Levy on area municipalities;

**AND WHEREAS** the Province of Ontario has regulated all education tax rates for 2021; and hereby adopted to be applied against the whole of the assessment for real property as set out in Schedule D

**AND WHEREAS** the Treasurer shall add all or any arrears for special charges such as developer charges; fees regarding registered tax properties; service charges for cutting weeds, dog licensing fees and drain maintenance arrears pursuant to any statute or by-law to the respective properties chargeable thereto and that the same shall be collected by the collector in the manner as all other rates or levies.

**NOW THEREFORE** the Council of the Corporation of the Township of Melancthon enacts as follows:

GB#15.1.1  
MAR 18 2021

**THAT** the Corporation of the Township of Melancthon adopt the sum of Two Million, Eight Hundred and Seven Thousand, Seven Hundred and Twenty-Five Dollars (\$2,807,725) as detailed in Schedule “B” attached hereto and which forms part hereof as the estimate of the Property Tax Levy required during the year 2021 for general purposes of the Corporation of the Township of Melancthon.

**THAT** for the year 2021 in the Corporation of the Township of Melancthon, the lower tier municipalities shall levy upon Residential/Farm Assessment, Multi-Residential Assessment, Commercial Assessment, Industrial Assessment, Pipeline Assessment, Farmlands Assessment and Managed Forests Assessment and applicable subclasses the tax rates for Township purposes set out in Schedule “C” attached hereto and which forms part hereof.

**THAT** tax rates for the Township of Melancthon portion of the tax bill are hereby adopted to be applied against the whole of the assessment for real property as set out in Schedule “D”.

1. The taxes shall become due and payable in two instalments:
  - First installment due and payable on August 24, 2021
  - Second installment due and payable on November 23, 2021
2. A penalty at the rate of 1.25% will be charged on the first day of default and on the first day of each calendar month thereafter in which default continues, on all unpaid instalments of taxes until December 31, 2021 after which the interest rates of 1.25% per month for each month or fraction thereof will be added.
3. The Treasurer may mail or cause the same to be mailed to the resident or place of business of such person indicated on the last revised assessment roll, a written or printed notice specifying the amount of taxes payable.
4. The taxes are payable at the Municipal Office, 157101 Highway 10, Melancthon, Ontario, L9V 2E6, the Toronto Dominion Bank or Credit Union in Shelburne, the CIBC or Credit Union in Dundalk, by mail, or by telephone/internet banking and by direct debit but not credit card.
5. In the event that the Provincial OPTA system does not have the necessary data to provide on Commercial, Industrial and Multi-Residential tax capping to permit processing tax bills for these installment dates, then the Treasurer is authorized to process tax bills for the remaining tax classes and to establish later tax installment due date(s) for the Commercial, Industrial and Multi-Residential tax classes on a separate bill.

This by-law shall come into force and effect upon the date of the final reading thereof.

**By-law read a first and second time this 18<sup>th</sup> day of March, 2021.**

**By-law read a third time and passed this 18<sup>th</sup> day of March, 2021**

.....  
Mayor

.....  
Clerk

Schedule A  
**Township of Melancthon**  
**CALCULATION OF LOWER TIER TAX RATES**

**Weighted Assessments Calculation**

	<b>"Pure" Assessment</b>	<b>Tax Ratio</b>	<b>Weighted Assessment</b>
Residential	427,788,300	1.0000	427,788,300
Multi Residential - Full	0	2.0000	0
Farmland Awaiting Development - Phase 1	0	1.3000	0
Commercial/New Commercial Full (Occupied)	9,876,700	1.2200	12,049,574
Vacant Units & Excess Land	528,800	0.8540	451,595
Vacant Land	68,000	0.8540	58,072
Farmland Awaiting Development	0	0.7930	0
Shopping Centre (Occupied)	0	1.2200	0
Vacant Unit & Excess Land	0	0.8540	0
Office Building (Occupied)	0	1.2200	0
Vacant Unit & Excess Land	0	0.8540	0
Industrial/New Industrial (Occupied)	37,341,300	2.1984	82,091,114
Vacant Units & Excess Land	0	1.5389	0
Vacant Land	141,000	1.5389	216,982
Industrial Full Shared PIL	117,000	2.1984	257,213
Farmland Awaiting Development - Phase 2	0	1.4290	0
Large Industrial	0	2.1984	0
Vacant Units & Excess Land	0	1.5389	0
Pipeline	1,937,000	0.8421	1,631,148
Farmlands	249,652,300	0.2200	54,923,506
Managed Forests	3,039,100	0.2500	759,775
<b>Total</b>	<b><u>730,489,500</u></b>		<b><u>580,227,279</u></b>



**Corporation of the Township of Melancthon  
2021 Operating and Capital Budget - Draft 1**

**\*2020 Actuals - Unaudited**

Acct No.	REVENUE	2020 Budget	2020 Actual	2021 Budget
	<b>Opening Surplus/(Deficit)</b>			
	<b>TAXATION</b>			
01-4001-0700	Supplementary Taxation	85,000.00	94,871.93	85,000.00
	<b>GRANTS</b>			
01-4003-0100	Payment in Lieu	1,100.00	1,092.14	1,100.00
01-4004-0150	OMPF	173,500.00	173,500.00	174,900.00
01-4004-0300	RIDE Grant	6,640.00	-94.60	6,536.00
01-4004-0172	Court Security & Prisoner Transportation	1,810.00	1,810.00	1,500.00
01-4004-0500	Library Grant	4,452.00	4,452.00	4,452.00
01-4004-0156	OCIF Funding (Formula Component)	50,000.00	50,000.00	50,000.00
01-4004-0159	Safe Restart Agreement		70,800.00	18,000.00
01-4004-0700	Ontario Aggregate Lic. Fee	80,000.00	122,992.96	100,000.00
01-4030-0100	Drainage Superintendent	17,500.00		25,440.00
01-4004-0164	ICIP Grant (applied for Works Dept Roof Repair)			100,000.00
	<b>ADMINISTRATION</b>			
01-4010-0100	Tax Certificates	2,520.00	2,720.00	2,600.00
01-4010-0110	Tax Statement/Duplicate Tax Bill	500.00	532.70	500.00
01-4010-0115	Reminder/Overdue Notice Fee	2,400.00	2,388.00	2,400.00
01-4010-0200	Building Permit Approval	4,100.00	4,900.00	4,800.00
01-4010-0250	Site Alteration Permit Approval			
01-4010-0300	NSF Cheque Charge	140.00	70.00	70.00
01-4010-0400	Photocopies	35.00		
01-4015-0100	Dog Licenses	15,000.00	13,498.75	13,000.00
01-4066-0000	Lottery Licenses	20.00	20.00	20.00
01-4040-0100	Livestock Claim Grants	1,000.00	6,206.20	1,000.00
01-4064-0000	Business Licenses	1,000.00	1,100.00	1,000.00
01-4050-0460	Transfer from MMAH-2019 (new phone system)			10,000.00
	<b>FIRE</b>			
01-4012-0100	Fire Revenue		12,412.50	
01-4012-0300	Fire Permit Fee	4,125.00	4,155.00	4,125.00
	<b>ROADS</b>			
01-4020-0110	Roads Misc Revenue		2,717.67	
01-4020-0125	Entrance Permits	1,100.00	1,600.00	1,200.00
01-4020-0130	Wide Load Permits	800.00	1,040.00	1,000.00
01-4020-0200	Culverts			
01-4020-0140	Bretton Estates Snow Plowing	900.00	1,035.00	900.00
01-4020-0500	Shelburne Road Agreement	5,300.00		5,400.00
01-4020-0700	Transfer from Development Charge (Bridge 2003)		30,366.20	
01-4004-0703	Transfer from Gas Tax	100,000.00	100,000.00	200,000.00
01-4004-0704	Transfer from Roads Capital Reserve	100,000.00	100,000.00	
01-4004-0702	Transfer from Road Equipment Reserve - Truck			300,000.00
01-4060-0000	Transfer from Working Capital Reserve	430,037.00	430,037.00	150,000.00
01-4050-0460	Transfer from MMAH-2019 (Bridge 13 Deck Condition Survey)		8,237.47	
01-4020-0700	Transfer from Development Charge (5th Line)			39,000.00
01-4050-0460	Transfer from MMAH-2019 (Corbetton-paved shoulders)			38,669.00
	<b>PLANNING</b>			
01-4035-0100	Official Plan Amendment			
01-4035-0310	Site Plan Application Fees			
01-4035-0350	Zoning By-law Amendment	10,000.00	10,500.00	10,000.00
01-4035-0300	Consent Applications	10,000.00	7,000.00	7,000.00
01-4035-0325	Minor Variance	800.00	1,000.00	1,000.00
01-4035-0200	Zoning Requests	1,200.00	1,200.00	1,200.00
01-4035-0360	Change of Use Certificate Applications		1,000.00	
01-4035-0370	Telecommunication Facilities Application		150.00	
01-4035-0375	Pre-Application Consultation		3,250.00	
01-4035-0500	Professional Services Reimbursement		-12,729.55	
01-40350565	NWN Inc. - Reimbursement		10,000.00	
	<b>OTHER</b>			
01-4050-0100	Miscellaneous Revenue	500.00	-24.46	100.00
01-4050-0125	CHD Community Contribution	309,000.00	309,000.00	309,000.00
01-4050-0130	Plateau Community Contribution	33,000.00	33,438.50	33,000.00
01-4050-0135	DWP Community Contribution	260,000.00	268,995.76	265,000.00
01-4050-0200	Penalties and Interest on Taxes	91,000.00	105,841.09	95,000.00
01-4050-0300	Interest on Deposits	49,000.00	22,776.27	15,000.00
01-4050-0400	POA	35,000.00	7,838.68	10,000.00
01-4025-0220	Electronic Recycling Revenue	50.00	54.90	
01-4077-0000	Land Rental	2,550.00	2,550.00	2,550.00
01-4002-0100	Tile Drains		16,575.90	
01-4050-0460	Transfer from MMAH-2019 (NDCC Rec Study)		18,303.17	
01-4050-0460	Horning's Mill's Park (trsf frm MMAH-2019)	15,000.00	15,000.00	
01-4004-0166	Horning's Mills Park (trs Main St Revitalization)	15,000.00	15,000.00	
04-4050-0460	Corbetton Park (transfer from MMAH-2019)	15,000.00	15,000.00	
01-4004-0166	Corbetton Park (transfer Main St Revitalization)	10,000.00	10,000.00	
01-4050-0460	Horning's Mills Hall (trsf frm MMAH - 2019)	5,000.00	6,452.00	
01-4004-0166	Transfer from Main St Revitalization(Flags Unbrnted)		8,956.94	
01-4050-0460	Transfer from MMAH-2019 (electronic signage)	20,000.00	20,000.00	
01-4050-0460	Transfer from MMAH-2019 (solar speed signs)	7,500.00		
01-4050-0460	Transfer from MMAH-2019 (HM Building Needs Assmt)			5,900.00
01-4013-0200	Transfer frm Dev Charges (solar speed signs)	7,500.00	6,250.60	
	<b>Sub-Total</b>	1,986,079.00	2,145,840.72	2,097,362.00
	<b>Expenditures</b>	4,751,479.62	4,299,319.80	4,905,087.00
	<b>Amount to be raised through Taxation</b>	<b>-2,765,400.62</b>	<b>-2,153,479.08</b>	<b>-2,807,725.00</b>

**Taxation**

01-4001-0100	Residential		2,038,992.92	
01-4001-0200	Farmland		266,410.30	
01-4001-0300	Commercial and Industrial		429,682.71	
01-4001-0500	Managed Forests		22,402.28	
01-4001-0600	Pipeline		7,913.46	
			<b>2,765,401.67</b>	

Schedule B

\*2020 Actuals - Unaudited

Corporation of the Township of Melancthon  
2021 Operating and Capital Budget - Draft 1

Acct. No.	Budget Expenditures	2020 Budget	2020 Actual	2021 Budget
	<b>General Government</b>			
	<b>COUNCIL</b>			
01-5001-1010	Salaries, Meetings	75,000.00	74,636.11	80,000.00
01-5001-1022	Training			
01-5001-1025	Receiver General	3,000.00	3,014.85	3,300.00
01-5001-1030	EHT	1,500.00	1,455.46	1,600.00
01-5001-1070	Mileage	1,900.00	691.90	1,000.00
01-5001-1080	Conferences/Conventions/Seminars	1,750.00	203.52	250.00
01-5001-1090	Meals	1,500.00	167.66	200.00
01-5001-2190	Miscellaneous	650.00	50.00	250.00
	<b>Sub-total</b>	<b>85,300.00</b>	<b>80,219.50</b>	<b>86,600.00</b>
	<b>ADMINISTRATION</b>			
01-5002-1010	Wages, Vacation Pay, Unused Sick Pay	295,000.00	287,100.88	300,000.00
01-5002-1020	Benefits	25,000.00	25,768.87	27,000.00
01-5002-1022	Training	1,200.00		1,200.00
01-5002-1025	Receiver General	15,000.00	13,601.54	15,000.00
01-5002-1026	Meetings	1,500.00	416.59	1,000.00
01-5002-1030	EHT	5,500.00	5,611.56	5,800.00
01-5002-1040	WSIB	7,200.00	7,613.97	7,800.00
01-5002-1064	OMERS Township Contribution	29,000.00	29,103.28	31,000.00
01-5002-1070	Mileage	1,850.00	1,158.50	1,500.00
01-5002-1080	Conferences			
01-5002-2025	Office Furniture	1,000.00		1,000.00
01-5002-2010	Office Supplies	6,100.00	6,263.18	6,500.00
01-5002-2020	Postage	5,500.00	5,350.56	6,000.00
01-5002-2030	Office Equipment	4,000.00	3,107.20	3,800.00
01-5002-2030	Office Equipment - New Phone System			10,000.00
01-5002-2035	Computer Program Updates & IT Services	10,000.00	8,463.53	10,000.00
01-5002-2036	Computers & Server		210.15	250.00
01-5002-2037	ESRI Enterprise License Agreement	2,700.00	3,000.00	3,000.00
01-5002-2040	Advertising	2,000.00	668.56	2,000.00
01-5002-2050	Audit	18,000.00	19,764.81	20,000.00
01-5002-2060	Memberships	3,800.00	3,820.28	3,900.00
01-5002-2070	Heating	3,000.00	1,872.67	2,800.00
01-5002-2080	Hydro	4,500.00	3,075.80	4,000.00
01-5002-2090	Telephone	2,500.00	2,367.33	2,500.00
01-5002-2094	Internet	1,450.00	1,288.03	1,400.00
01-5002-2095	Website Maintenance	250.00		250.00
01-5002-2099	Tow- Truck Licensing By-law			1,000.00
01-5002-2100	Professional Fees - Legal	15,000.00	10,470.41	15,000.00
01-5002-2102	Integrity Commissioner Services	2,000.00	4,263.06	5,000.00
01-5002-2103	Health and Safety Services	5,000.00	21.34	5,000.00
01-5002-2109	Employee Township Compensation Plan	1,000.00		6,800.00
01-5002-2110	Insurance	37,000.00	37,000.00	47,000.00
01-5002-2120	Elections			10,000.00
01-5002-2162	Bldg Maintenance	5,500.00	1,804.22	4,000.00
01-5002-2163	Office Cleaning	2,040.00	2,035.20	2,200.00
01-5002-2164	Landscaping & Grass Cutting	300.00	51.87	300.00
01-5002-2165	Water Sampling	125.00	59.46	125.00
01-5002-2170	COVID-19 Expenses		5,474.18	2,000.00
01-5002-2190	Other/Miscellaneous	2,200.00	1,350.35	5,000.00
01-5002-2193	MMAH-Modernization (Corbetton & HM Park, signage)	57,500.00	39,556.29	
01-5002-2193	MMAH-Modernization (Homing's Mills Hall)	5,000.00		
01-5002-2194	Main Street Revitalization (Corbetton & HM Park)	25,000.00	34,630.77	
01-5002-2200	Petty Cash	500.00	136.40	500.00
01-5002-2300	Bretton Estates		949.15	
01-5002-4010	Tax Write-Offs	75,000.00	80,763.91	75,000.00
01-5002-4015	Penny Rounding		(0.03)	
01-5002-4030	Bank Charges	1,200.00	1,200.96	1,250.00
01-5002-6135	Grants to Others	2,500.00		2,500.00
01-5002-6136	Erskine Clinic	5,000.00	5,000.00	5,000.00
01-5002-7011	Loan for Municipal Expansion	13,057.00	13,056.66	13,057.00
	<b>Sub-total</b>	<b>700,972.00</b>	<b>667,451.49</b>	<b>668,432.00</b>
	<b>PROTECTION TO PERSONS/PROPERTY</b>			
01-5003-6010	Mulmur Melancthon FD	103,225.00	105,149.16	107,250.00
01-5003-6020	Shelburne and District FD	108,800.62	108,890.62	113,005.00
01-5003-6030	Township of Southgate FD - Operating	25,725.00	25,725.00	52,000.00
01-5003-6031	Township of Southgate FD - Capital	7,000.00	7,000.00	8,000.00
01-5004-3050	Policing (2019 Actual 404,847-Adjustment 2017)	400,259.00	396,161.82	406,341.00
01-5004-3055	Policing - ESO	300.00	343.60	350.00
01-5004-3052	Policing - RIDE	6,640.00	(94.60)	6,536.00
01-5004-3053	Police Services Board	1,000.00		
01-5004-2300	Speed Vision Sign		6,250.60	
01-5004-6040	Nottawasaga Valley CA	12,568.00	12,567.78	12,794.00
01-5004-6050	Grand River CA	19,173.00	19,173.00	19,819.00
01-5004-6055	SWP			
01-5013-6140	Livestock Claims	1,000.00	6,286.20	1,000.00
01-5004-6150	Animal Control	3,000.00	755.04	2,500.00
01-5004-6155	By-law Enforcement	10,000.00	4,034.23	12,000.00
01-5006-3025	Street Lights LED	5,000.00	4,565.13	5,000.00
01-5006-3026	LED Street Light Repair	600.00	759.39	1,000.00
	<b>Sub-total</b>	<b>704,290.62</b>	<b>697,566.97</b>	<b>747,595.00</b>

	<b>ROADWAYS</b>				
	Road Budget	2,912,555.00	2,459,887.06	3,032,833.00	
	Transfer to Reserves				
	<b>Sub-total</b>	<b>2,912,555.00</b>	<b>2,459,887.06</b>	<b>3,032,833.00</b>	
	<b>ENVIRONMENTAL SERVICES</b>				
01-5007-2171	Levelling	7,500.00	237.37	7,500.00	
01-5007-2105	Landfill Study/Monitoring	22,693.00	22,692.48	22,693.00	
01-5007-2190	Miscellaneous		96.22	100.00	
01-5007-7001	Rehabilitation Reserve	10,000.00	10,000.00	10,000.00	
	<b>Sub-total</b>	<b>40,193.00</b>	<b>33,026.07</b>	<b>40,293.00</b>	
	<b>RECREATION</b>				
01-5010-5055	Corbetton Park	2,500.00		2,500.00	
01-5010-6060	Horning's Mills Park	4,900.00	2,716.18	4,900.00	
01-5010-6065	Horning's Mills Community Hall	1,100.00	1,215.04	1,230.00	
01-5010-6064	Horning's Mills Hall Building Needs Assessment			5,900.00	
01-5010-6066	Horning's Mills Heritage Project	300.00	108.00	250.00	
01-5010-6070	Centre Dufferin Recreation Complex	49,051.00	49,050.60	50,522.00	
01-5010-6080	Dundalk Community Centre	14,000.00	14,000.00	14,000.00	
01-5010-6100	North Dufferin Community Centre Bd of Management	53,651.00	54,410.44	55,000.00	
01-5016-8902	Horning's Mills Cemetery			5,000.00	
01-5016-8904	St. Paul's Cemetery				
	<b>Sub-total</b>	<b>125,502.00</b>	<b>121,500.26</b>	<b>139,302.00</b>	
	<b>LIBRARY</b>				
01-5011-6110	Shelburne Library	56,817.00	56,817.00	57,802.00	
01-5011-6120	Dundalk Library	8,350.00	8,274.00	8,350.00	
	<b>Sub-total</b>	<b>65,167.00</b>	<b>65,091.00</b>	<b>66,152.00</b>	
	<b>PLANNING &amp; DEVELOPMENT</b>				
01-5012-2100	Professional/Legal Fees	45,000.00	55,421.18	50,000.00	
01-5012-2103	Cannabis - NWN Scientific		30,110.58		
01-5012-2105	Melancthon Cannabis Regulation		254.40		
01-5012-2109	New Zoning By-law				
01-5012-2101	LPAT Appeals	25,000.00	25,142.44	15,000.00	
01-5012-2304	Strada OPA/ZBA		407.04		
	<b>Sub-total</b>	<b>70,000.00</b>	<b>111,335.64</b>	<b>65,000.00</b>	
	<b>DRAINAGE</b>				
01-5009-3060	Drainage Superintendent	35,000.00	35,213.91	50,880.00	
01-5015-0100	Tile Drainage Principal & Int Pymts		16,575.90		
01-5009-3070	Nuisance Beaver & Beaver Dam Removal			3,000.00	
	<b>Sub-Total</b>	<b>35,000.00</b>	<b>51,789.81</b>	<b>53,880.00</b>	
	<b>RESERVE</b>				
01-5002-5041	Tax Rate Stabilization - HM Hall operating expenses		6,452.00		
01-5002-5042	Special Reserve Fund Emergency Relief	5,000.00	5,000.00	5,000.00	
01-5002-6200	Trsf frm Development Chgs (solar speed signs)	7,500.00			
	<b>TOTAL EXPENDITURES</b>	<b>4,751,479.62</b>	<b>4,299,319.80</b>	<b>4,905,087.00</b>	

**Corporation of the Township of Melancthon  
Road Department 2021 Operating and Capital Budget - Draft 1**

**\*2020 Actuals - Unaudited**

Acct. No.	ADMINISTRATION	2020 Budget	2020 Actual	2021 Budget
01-5005-1010	Salaries and Wages	385,000.00	369,717.88	395,000.00
01-5005-1025	Receiver General, EHT & WSIB	42,500.00	39,885.35	42,500.00
01-5005-1020	Benefits	28,000.00	27,688.57	29,000.00
01-5005-1060	Short Term Disability			
01-5005-1064	OMERS Township Contribution	34,500.00	33,474.23	35,500.00
01-5005-1070	Mileage	120.00	30.00	100.00
01-5005-1022	Staff Training and Seminars	3,000.00		3,000.00
01-5005-2010	Office Supplies	500.00	106.62	300.00
01-5005-2036	GPS Monthly Tracking Expense	5,000.00	4,331.58	5,000.00
01-5005-2112	Asset Management Plan Support	9,000.00	8,222.21	5,650.00
01-5005-2112	Asset Management Plan Update			18,000.00
01-5005-2115	Road Management Plan			
01-5005-3105	Bridge Study/Inspections			16,895.00
	<b>MISCELLANEOUS</b>			
01-5005-2070	Utilities - Heat	14,000.00	7,509.99	10,000.00
01-5005-2080	Utilities - Hydro	5,000.00	4,445.07	5,000.00
01-5005-2090	Telephone	1,000.00	823.49	1,000.00
01-5005-2091	Mobile Phone	1,000.00	761.21	1,000.00
01-5005-2040	Advertising	700.00	(356.16)	500.00
01-5005-2041	Signs	5,000.00	5,182.27	5,000.00
01-5005-2110	Insurance	45,000.00	45,000.00	52,000.00
01-5005-2100	Legal Fees	6,000.00		5,000.00
01-5005-2050	Audit	10,000.00	10,000.00	10,000.00
01-5005-2060	Memberships	150.00	113.00	150.00
01-5005-2165	Materials and Supplies/Stock	8,500.00	4,441.14	7,000.00
01-5005-2166	Coveralls	5,000.00	4,908.78	6,000.00
01-5005-3000	Services and Rents/Misc	7,500.00	3,732.04	7,500.00
01-5005-2103	Health & Safety Services	5,000.00	21.34	5,000.00
01-5005-2104	Health & Safety Materials/Supplies	3,000.00		3,000.00
01-5005-2162	Building Maintenance	15,000.00	4,576.48	10,000.00
01-5005-2163	Sand Dome Repairs			
01-5005-2170	COVID -19 Expenses			1,000.00
01-5005-2185	Oil Separator Clean Out	1,500.00	1,590.00	2,000.00
01-5005-2192	Shop Tools	5,000.00	808.71	5,000.00
01-5005-2190	Miscellaneous	1,000.00	825.53	1,000.00
01-5005-3800	Contract Work	1,000.00	610.56	1,000.00
	<b>EQUIPMENT</b>			
01-5005-2150	Fuel - Clear	50,000.00	36,910.73	45,000.00
01-5005-2155	Fuel - Dyed	40,000.00	22,790.38	30,000.00
01-5005-3060	Water Tank		126.80	
01-5005-3070	Fuel - Patrol Trucks	12,000.00	9,422.56	12,000.00
01-5005-2180	Oil - Trucks and Grader	4,000.00		4,000.00
01-5005-3071	TR#1 - Repairs	3,500.00	5,623.18	5,000.00
01-5005-3073	TR#2 - Repairs	20,000.00	10,016.31	15,000.00
01-5005-3074	TR#3 - Repairs	5,000.00	8,081.67	10,000.00
01-5005-3075	TR#4 - Repairs	20,000.00	10,900.21	15,000.00
01-5005-3076	TR#5 - Repairs	20,000.00	24,270.90	15,000.00
01-5005-3077	TR#6 - Repairs	15,000.00	10,241.30	15,000.00
01-5005-3069	TR#7 - Repairs	3,000.00	118.04	5,000.00
01-5005-3079	GR#1 - CAT - Repairs	10,000.00	3,711.86	10,000.00
01-5005-3080	GR#2 - Repairs	15,000.00	17,612.99	15,000.00
01-5005-3081	Backhoe Repairs	2,500.00	789.89	3,000.00
01-5005-3082	Loader	2,500.00	321.05	2,500.00
01-5005-3083	John Deere Mower	1,000.00	305.28	1,000.00
01-5005-3084	Power Washer	1,500.00	4,635.11	3,000.00
01-5005-3085	Chain Saw	1,000.00	99.09	1,000.00
01-5005-3086	Roadside Mower			
01-5005-3500	Winter Control-Plow & Wing Parts	20,000.00	18,520.30	20,000.00
01-5005-7015	John Deere Grader Loan	33,233.00	33,232.38	33,233.00
01-5005-2191	Radio and Truck Licenses	10,200.00	9,935.30	10,200.00
01-5005-2195	Radio Maintenance & Repair	2,500.00	2,189.87	2,500.00
	<b>NEW EQUIPMENT</b>			
01-5005-7010	Vehicles - Truck			300,000.00
01-5005-7005	Equipment (accumulator)	15,000.00	10,888.32	12,000.00
	<b>BRIDGES, CULVERTS, DRAINS</b>			
01-5005-3100	Bridge & Culvert Mice	20,000.00	10,422.97	20,000.00
01-5005-3111	Bridge #11		3,533.90	30,000.00
01-5005-3115	Bridge #13	33,275.00	27,088.47	200,000.00
01-5005-3116	Bridge #004 - Closure		488.45	
01-5005-3850	Drain Assessments New Reports	35,000.00	2,073.36	1,500.00
01-5005-3851	Road Crossings due to Drain Mice	40,000.00		55,000.00
01-5005-7021	Culvert 2027 Loan Payment	40,908.00	40,907.52	40,908.00
01-5005-3178	30 Sideroad Culvert - emergency repair		53,515.57	
01-5005-3156	Culvert 2013	305,000.00	253,186.82	
01-5005-3165	Culvert 2021	20,000.00	9,517.35	
01-5005-3174	Culvert 2029	765.00		



	<b>ROADSIDE</b>				
01-5005-3215	Grass Mowing & Weed Spraying	5,000.00	4,986.46	5,500.00	
01-5005-3205	Brushing - Tree Trim and Removal	15,000.00	19,988.20	20,000.00	
01-5005-3206	Ditching	20,000.00	16,230.72	25,000.00	
01-5005-3322	Catch Basins	2,500.00		2,500.00	
01-5005-3610	Guide Posts & Hardware		1,652.30	2,000.00	
01-5005-3315	Shoulder Maintenance	5,000.00	3,819.74	5,000.00	
	<b>HARDTOP</b>				
01-5005-3304	Preventative Maintenance	53,326.00		25,728.00	
01-5005-3310	Cold Mix, Patching, Routine Mtce	82,220.00	18,144.65	45,000.00	
01-5005-3320	Sweeping, Flushing, Cleaning	5,000.00	4,508.99	5,500.00	
01-5005-3321	Line Painting		2,421.89	3,000.00	
	<b>LOOSETOP</b>				
01-5005-3700	Clearview Townline				
01-5005-3750	Townlines	1,000.00	179.10	1,000.00	
01-5005-3200	Roadside Maintenance		955.89		
01-5005-3210	Gravel Resurfacing	280,000.00	272,132.50	300,000.00	
01-5005-3211	Gravel Maintenance	20,000.00	16,652.34	20,000.00	
01-5005-3410	Dust Layer (Calcium Chloride)	140,000.00	106,245.22	150,000.00	
	<b>WINTER CONTROL</b>				
01-5005-3510	Sand and Salt	55,000.00	38,490.74	50,000.00	
01-5005-3505	Snow Removal/Blowing	3,000.00	1,223.66	3,000.00	
	<b>ROAD IMPROVEMENTS</b>				
01-5005-3140	4th Line O.S. - Pulverizing		4,940.43		
01-5005-3130	2nd Line SW - Rehabilitation	615,658.00	567,386.41		
01-5005-3137	5th Line O.S. - Cty Rd 17 - 15 Sideroad			150,000.00	
01-5005-3134	260 Sideroad - Hwy 10 to 2nd Line SW			300,000.00	
01-5005-3123	Corbetton - paved shoulders			38,669.00	
01-5005-3122	Church Street - Horning's Mills			50,000.00	
	<b>RESERVE</b>				
01-5005-5030	Replacement Equipment Reserve	150,000.00	150,000.00	100,000.00	
01-5005-5035	Building Maintenance Reserve	10,000.00	10,000.00	10,000.00	
	<b>BUILDING IMPROVEMENTS</b>				
01-5005-7041	Works Building Roof Replacement			100,000.00	
	<b>TOTAL BUDGET</b>	<b>2,912,555.00</b>	<b>2,459,887.06</b>	<b>3,032,833.00</b>	

## Schedule C

**Township of Melancthon**  
**CALCULATION OF LOWER TIER TAX RATES**

<b>Proof of Taxes Raised</b>	<b>Tax Rate</b>	<b>Unweighted Assessment</b>	<b>Tax Levied</b>
Residential	0.483901%	427,788,300	\$2,070,072
Multi Residential - Full	0.967802%	0	\$0
Farmland Awaiting Development - Phase 1	0.629071%	0	\$0
Commercial/New Commercial Full (Occupied)	0.590359%	9,876,700	\$58,308
Vacant Units & Excess Land	0.413251%	528,800	\$2,185
Vacant Land	0.413251%	68,000	\$281
Farmland Awaiting Development	0.383733%	0	\$0
Shopping Centre (Occupied)	0.590359%	0	\$0
Vacant Unit & Excess Land	0.413251%	0	\$0
Office Building (Occupied)	0.590359%	0	\$0
Vacant Unit & Excess Land	0.413251%	0	\$0
Industrial/New Industrial (Occupied)	1.063808%	37,341,300	\$397,240
Vacant Units & Excess Land	0.744666%	0	\$0
Vacant Land	0.744666%	141,000	\$1,050
Industrial Full Shared PIL	1.063808%	117,000	\$1,245
Farmland Awaiting Development - Phase 2	0.691475%	0	\$0
Large Industrial	1.063808%	0	\$0
Vacant Units & Excess Land	0.744666%	0	\$0
Pipeline	0.407493%	1,937,000	\$7,893
Farmlands	0.106458%	249,652,300	\$265,775
Managed Forests	0.120975%	3,039,100	\$3,677
		<b>730,489,500</b>	<b>\$2,807,725</b>
		<b><u>Rounding Error</u></b>	<b><u>\$0</u></b>

**CORPORATION OF THE TOWNSHIP OF MELANCTHON**

**BY-LAW NO. \_\_\_\_\_-2021**

Being a By-law to Authorize the Execution of a Tax Arrears Extension Agreement Pursuant to Section 378 of the Municipal Act, S.O. 2001, C25, as amended

**WHEREAS** the Corporation of the Township of Melancthon registered on the 15<sup>th</sup> day of October 2019, a tax arrears certificate against land described as Lot 47, Plan 34A.

**AND WHEREAS** Section 378 of the *Municipal Act, 2001* provides that after the registration of a tax arrears certificate and before the expiry of one (1) year following the date of the registration of the tax arrears certificate, a Municipality or Board may by By-law authorize an extension agreement with the owner of the land, the spouse of the owner, a mortgagee or a tenant in occupation of such land to extend the period of time in which the cancellation price in respect to the Owner's land is to be paid;

**AND WHEREAS** the owners have requested that the municipality enter into an agreement substantially in the form of an agreement attached to this By-law to extend the time within which the cancellation price is to be paid;

**AND WEHREAS** the statutory period within which such a By-law may be enacted has not elapsed;

**NOW THEREFORE** the Council of the Township of Melancthon hereby enacts as follows:

1. That an agreement be entered into by the Corporation of the Township of Melancthon with the Owners of the land described as Lot 47, Plan 34A to extend the time period in which the cancellation price payable on this land is to be paid on the terms and in substantially the same form terms and conditions as described in Schedule A attached to this By-law;
2. That the Mayor and Clerk be and are hereby authorized and directed to enter into the Agreement on behalf of the Corporation;
3. That this By-law shall come into full force and effect on the date of final passage thereof.

By-law read a first and second time this 18<sup>th</sup> day of March, 2021.

By-law read a third time and passed this 18<sup>th</sup> day of March, 2021.

\_\_\_\_\_  
MAYOR

\_\_\_\_\_  
CLERK

GB # 15.1.2  
MAR 18 2021

## TAX ARREARS EXTENSION AGREEMENT

THIS AGREEMENT made in duplicate this 18th day of March, 2021 between the Corporation of the Township of Melancthon (the "Township") and Evelyn Jean Beach, Bruce Mansfield Beach, Bahia Karen Eldner-Beach, and Bonar Otis Martin Beach (collectively referred to as the "Owner").

### WHEREAS:

1. The Owner is the owner of land legally described as LOT 47, PLAN 34A; MELANCTHON [PIN 34125-0042 (LT)] in the Township of Melancthon (the "Owner's Land"), as set out in Instrument No. DC2364 registered in the Land Registry Office;
2. There are arrears of taxes in respect of the Owner's Land and a tax arrears certificate was registered in the Land Registry Office, as set out in Instrument No. DC212017 on the 15<sup>th</sup> day of October, 2019;
3. The arrears of taxes (not including legal fees, interest, penalties and other expenses forming a part of the Cancellation Price) in respect of the Owner's Land on the date of this Agreement are in the amount of \$55,718.36; and
4. Under s. 378 of the *Municipal Act, 2001*, S.O. 2001, c. 25, a municipality may, by by-law passed after registration of a tax arrears certificate, authorize an extension agreement to be entered into by the municipality with the owner, the spouse of the owner, a mortgagee or a tenant in occupation of the land in order to extend the period of time within which the cancellation price is to be paid.

IN CONSIDERATION of the premises and of the covenants and obligations contained in this agreement, it is hereby agreed as follows:

1. The parties agree that the period of time within which the cancellation price is to be paid shall be and is hereby extended to July 15, 2021, provided that the Owner is not in default hereunder.
2. Despite any of the provisions of this agreement, the Owner acknowledges that the *Municipal Act, 2001* shall continue to apply to the collection and enforcement of all tax arrears and all taxes with respect to the Owner's Land, except that the Treasurer and the collector of taxes of the Township without waiving any statutory rights and powers of the Township or the Treasurer, agree that the Township shall not enforce collection of such tax payments by the sale of the Owner's Land, during the time that this agreement is in force, so long as the Owner is not in default of any of the provisions of this agreement.
3. The Owner agrees to pay to the Township the sums indicated in Schedule "A" (the "Cancellation Price"), attached to and forming part of this agreement, in the manner indicated therein.
4. In the event that the Owner sells the Owner's Land prior to July 15, 2021, the balance of the cancellation price shall become immediately due and payable on the business day immediately prior to the date of closing of the sale.
5. In the event that the Owner defaults in any payment due under this agreement or is in default of any covenant or condition of this agreement, this agreement shall cease to be considered a subsisting agreement for the purposes of s. 378 of the *Municipal Act, 2001*.
6. Despite the provisions of paragraph 1, the Owner, or any other person, may on or before July 15, 2021, pay the balance of the cancellation price and, upon receipt of the said payment by the Township, this agreement shall terminate and the Treasurer shall forthwith register a tax arrears cancellation certificate.
7. In the event that the cancellation price is not paid by July 15, 2021, this agreement shall terminate. The Owner will not object to the sale of the Owner's Land by the Township and shall consent to any court orders necessary to permit the Township to sell the said land. The Owner covenants and agrees to be bound by this paragraph 7 notwithstanding the termination of this agreement.



8. This agreement shall extend to and be binding upon and enure to the benefit of the parties and to their respective successors and assigns.

9. Any notice to be given to the parties to this agreement shall be sufficiently given if sent by registered or certified post to the following addresses:

to the Township:

THE CORPORATION OF THE TOWNSHIP OF MELANCTHON  
157101 HIGHWAY 10  
MELANCTHON, ON L9V 2E6  
Attn: Wendy Atkinson – Treasurer

to the Owner:

EVELYN JEAN BEACH  
161 MAIN STREET  
MELANCTHON, ONTARIO L9V 1X7

BRUCE MANSFIELD BEACH  
161 MAIN STREET  
MELANCTHON, ONTARIO L9V 1X7

BAHIA KAREN ELDNER-BEACH  
161 MAIN STREET  
MELANCTHON, ONTARIO L9V 1X7

BONAR OTIS MARTIN BEACH  
161 MAIN STREET  
MELANCTHON, ONTARIO L9V 1X7

IN WITNESS WHEREOF the parties have signed this Agreement which is effective as of the day and the year first above written.

THE CORPORATION OF THE  
TOWNSHIP OF MELANCTHON

\_\_\_\_\_  
Per: Denise Holmes, CAO-Clerk

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
Evelyn Jean Beach

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
Bruce Mansfield Beach

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
Bahia Karen Eldner Beach

\_\_\_\_\_  
Witness:

\_\_\_\_\_  
Bonar Otis Martin Beach

Schedule "A"

Calculation of Payment Required under Extension Agreement

AMOUNT:

1. Outstanding taxes, penalty and interest charges on Tax Arrears Certificate to December 31, 2020	\$55,103.36
2. Additional taxes levied subsequent to tax sale proceedings (includes 2021 interim levies payable on or before July 15, 2021)	\$ 1,229.00
3. Interest and Penalties (including those to July 15, 2021)	\$ 2,942.99
4. Legal Fees (including fees and expenses to register Cancellation Certificate)	<u>\$ 1,663.24</u>

Total amount to be paid under Extension Agreement (Cancellation Price) \$60,938.59

TO BE PAID AS FOLLOWS:

One payment to the Treasurer, Township of Melancthon, by bank draft on or before July 15, 2021 \$60,938.59



*The Corporation of*

**THE TOWNSHIP OF MELANCTHON**

157101 Highway 10, Melancthon, Ontario, L9V 2E6

Telephone - (519) 925-5525

Fax No. - (519) 925-1110

Website: [www.melancthontownship.ca](http://www.melancthontownship.ca)

Email: [info@melancthontownship.ca](mailto:info@melancthontownship.ca)

## **SYLVIA JONES, MPP - DELEGATION**

### **LIST OF AGENDA TOPICS - 2020**

- Tile Drainage Loans - Interest rates
- Proposed Amendments to the Aggregates Resources Act
- TOARC - Aggregate License Fees
- Development Charges and what they can be used for
- Grants for roads and bridges
- MZO's (\*new 2021)
- Tow Truck Issue (\*new 2021)

GB# 15.2.1  
MAR 18 2021

**COUNCIL VACANCY – MEET THE CANDIDATES  
THURSDAY, MARCH 18, 2021 – 7:00 P.M.**

**Order of Proceedings**

1. Statement of the Mayor
2. Presentation of the List of Names of the Qualified Applicants

Recommended motion: That the following individuals, who have signified in writing that they are legally qualified to hold office and consented to accept the office if they are appointed to fill the vacancy, be considered to fill such vacancy: James McLean, Thomas Reid, Jim Turner, Alan Wilson.

3. Presentations and Introductions by the Candidates (order of speaking has been determined by lot, as selected by the Clerk and has been provided to the Mayor)
4. Questions from Council





The Corporation of

**THE TOWNSHIP OF MELANCTHON**

157101 Highway 10, Melancthon, Ontario, L9V 2E6

### COUNCIL VACANCY APPLICATION FORM

**Please complete this form in its entirety and submit in person (no fax or email) with identification (Passport or Driver's License) by 2:00 p.m. on Monday, February 22, 2021.**

**Denise B. Holmes, AMCT  
CAO/Clerk  
Township of Melancthon  
157101 Highway 10  
Melancthon, Ontario  
L9V 2E6**

COUNCIL VACANCY APPLICATION FORM		
<b>Name:</b>	James McLean	
<b>Qualifying Address:</b>	172 Main Street, Melancthon, ON	
<b>Email Address:</b>	Jamesamclean23@gmail.com	
<b>Telephone (Home):</b>	519-217-2509	
<b>Telephone (Work):</b>	" "	
<b>Telephone (Cell):</b>	" "	
<b>Eligibility Requirements</b>	<b>Yes</b>	<b>No</b>
Canadian Citizen	X	
Minimum 18 years of age	X	
Eligible elector in the Township of Melancthon (owner or tenant or spouse of such owner or tenant)	X	
Not prohibited from voting under any other Act or disqualified from holding municipal office	X	

**Personal Statement - Please explain why you would like to serve on Council. Please attached your type-written statement to this Council Vacancy Application Form, on letter size (8.5" x 11") paper. Please do not exceed two (2) pages in length.**

# COUNCIL VACANCY APPLICATION FORM

## Declaration of Qualification

I, James McLean, an applicant mentioned in this application form, declare that I am presently legally qualified, or would be presently legally qualified if I were not a member of the Legislative Assembly of Ontario or the Senate or House of Commons of Canada, to be appointed and to hold the office to which I have applied for appointment and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Declared before me at the Township of Melancthon, in the County of Dufferin this 22<sup>nd</sup> day of February, 2021.

James McLean James McLean  
Signature of Applicant

Denise Holmes  
Signature of Clerk or Commissioner

Denise B. Holmes Feb 22 / 2021  
Received by: Date:

## CERTIFICATE

I, the undersigned Clerk of this municipality, do hereby certify that I have examined the application form of the aforesaid applicant filed with me and I am satisfied that the nominee is qualified for appointment to municipal office.

Denise Holmes  
Signature of Clerk or Designate

Feb 22 / 2021  
Date Certified:

Personal information collected on this form is pursuant to the Municipal Act and is collected in accordance with The Municipal Freedom of Information and Protection of Privacy Act and will be used for the purpose of determining a nominee's eligibility for appointment to municipal office. This application form will be attached to a Council and/or Special Council Meeting(s) and posted on the Township website. Questions can be directed to the Clerk.

# James McLEAN

172 Main St., Melancthon, ON 🏠

519-217-2509 📞

JamesAMcLean23@gmail.com ✉️

February 22, 2021

Denise B. Holmes, AMCT  
CAO/Clerk  
Township of Melancthon  
157101 Highway 10  
Melancthon, Ontario, L9V 2E6

Dear Ms. Holmes

**RE: Council vacancy**

I'm writing to submit my application for the vacant Council position with the Township of Melancthon. I believe I would be a valuable voice on Council for three main reasons:

First, having grown up in Melancthon and Shelburne, I know this area well and have a strong desire to give back to a community that has been so good to my family. I believe this Council position provides just such an opportunity.

Second, as a relatively young professional (37 years old), I think I could bring new ideas and perspectives to Council. As you know, more people my age are purchasing homes and moving into our Township and County; for this reason, I think it could be beneficial to have another generation represented on Council.

Third, I bring diverse professional experience to this position. Over the past decade, I have worked with federal, provincial and municipal governments to execute their priorities, responsibly manage taxpayer funding, and build community connections. This experience has given me transferable skills that would be valuable to the Township of Melancthon, including:

- **Diverse policy expertise:** In 2009, I completed a Master's Degree in Public Policy and have since worked on files that span the policy spectrum – from energy and education, to public finance and public safety. Most recently, with the Public Policy Forum (PPF), I helped generate a report to the federal government on how to improve infrastructure spending in Canadian municipalities. As a Senior Advisor to the Minister of Education, I led the development of the Premier's plan to make childcare more affordable in Ontario. With the City of Toronto, I developed an action plan to make their early years program more accessible to vulnerable communities. And, with the Region of Peel, I created policy "on the fly" to help support first responders and frontline workers in response to COVID-19.
- **Budgeting experience:** I recently served as the manager who oversaw the Region of Peel's \$200M early years and childcare budget. In this role, I was responsible for managing spending and tracking expenses, developing multi-year budget forecasts, implementing programs in accordance with new provincial direction, and finding internal efficiencies to reduce red tape and administrative costs. I

believe this knowledge of budget management is an essential skill for someone serving on Township Council.

- **Community and stakeholder engagement experience:** One of my greatest assets is my ability to develop strong working relationships with constituents. At the PPF, I convened dozens of public engagement events with citizens, governments, corporations, unions, and academic leaders to identify solutions to policy challenges. This experience gave me valuable experience with chairing meetings, clarifying issues, managing expectations, and finding common ground among diverse viewpoints.

Further, as a Senior Advisor to the Minister of Education, I was entrusted with rebuilding our relationship with key stakeholders. By the time I left the provincial government, our stakeholders not only publicly championed our work but became active partners in helping us develop new policy. I believe I can use these important interpersonal skills to help the Township build and strengthen community relationships and partnerships.

- **Strong communication skills:** I am able to communicate in a clear and accessible way. My communication skills have allowed me to succeed within a fast-paced environment to shape government policy, craft public communications, prepare for press engagements, and present in front of executive leaders and the general public.

I trust that you will consider my candidacy for the vacant Council position with the Township of Melancthon. I would welcome the opportunity to discuss my suitability for this important position in further detail.

Sincerely,

James McLean





The Corporation of

THE TOWNSHIP OF MELANCTHON

157101 Highway 10, Melancthon, Ontario, L9V 2E6

**TOWNSHIP OF MELANCTHON - COUNCIL VACANCY  
FREEDOM OF INFORMATION (FOI) RELEASE  
Municipal Elections Act, 1996**

Name of Candidate: James McLean

In accordance with the Municipal Freedom of Information and Protection of Privacy Act, as amended, I hereby authorize Township Staff to include on the Township of Melancthon website and make available to any person the following information with respect to my candidacy for the Council vacancy:

Address:

172 Main street, Melancthon, ON

Telephone Number: 519-217-2509

Email Address: Jamesamclean23@gmail.com

James McLean  
Signature of Candidate

Feb 22 / 21  
Date



The Corporation of  
**THE TOWNSHIP OF MELANCTHON**  
 157101 Highway 10, Melancthon, Ontario, L9V 2E6

**COUNCIL VACANCY APPLICATION FORM**

Please complete this form in its entirety and submit in person (no fax or email) with identification (Passport or Driver's License) by 2:00 p.m. on Monday, February 22, 2021. ✓

Denise B. Holmes, AMCT  
 CAO/Clerk  
 Township of Melancthon  
 157101 Highway 10  
 Melancthon, Ontario  
 L9V 2E6

COUNCIL VACANCY APPLICATION FORM		
Name: <i>Thomas Reid</i>		
Qualifying Address: <i>476538 3rd line Melancthon</i>		
Email Address: <i>ThomasReid7720@gmail.com</i>		
Telephone (Home): <i>N/A</i>		
Telephone (Work): <i>N/A</i>		
Telephone (Cell): <i>519 278 6310</i>		
Eligibility Requirements	Yes	No
Canadian Citizen	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum 18 years of age	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Eligible elector in the Township of Melancthon (owner or tenant or spouse of such owner or tenant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Not prohibited from voting under any other Act or disqualified from holding municipal office	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Personal Statement - Please explain why you would like to serve on Council. Please attached your type-written statement to this Council Vacancy Application Form, on letter size (8.5" x 11") paper. Please do not exceed two (2) pages in length.**

COUNCIL VACANCY APPLICATION FORM

Declaration of Qualification

I, Thomas Reid, an applicant mentioned in this application form, declare that I am presently legally qualified, or would be presently legally qualified if I were not a member of the Legislative Assembly of Ontario or the Senate or House of Commons of Canada, to be appointed and to hold the office to which I have applied for appointment and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Declared before me at the Township of Melancthon, in the County of Dufferin this 18 day of February, 2021.

Thomas Reid  
Signature of Applicant

Wendy Elaine Atkinson, a Commissioner, etc.,  
for the Corporation of the Township of Melancthon,  
County of Dufferin.

Wendy Atkinson  
Signature of Clerk or Commissioner

Received by: Wendy Atkinson Date: Feb 18, 2021

CERTIFICATE

I, the undersigned Clerk of this municipality, do hereby certify that I have examined the application form of the aforesaid applicant filed with me and I am satisfied that the nominee is qualified for appointment to municipal office.

Heather B. Helms Feb 22/2021  
Signature of Clerk or Designate Date Certified:

Personal information collected on this form is pursuant to the Municipal Act and is collected in accordance with The Municipal Freedom of Information and Protection of Privacy Act and will be used for the purpose of determining a nominee's eligibility for appointment to municipal office. This application form will be attached to a Council and/or Special Council Meeting(s) and posted on the Township website. Questions can be directed to the Clerk.

Thomas Reid  
476538 Third Line  
Melancthon, ON  
L9V 1T4  
(519) 278-6310  
Email [thomasreid7720@gmail.com](mailto:thomasreid7720@gmail.com)

February 18th, 2021.

Statement for Melancthon Council-

My name is Thomas Reid and I have lived in Melancthon for almost my entire life and I love this great township and rural routes. I would like to put my name forth for the open councillor position.

I would first like to start out and say that I would be a valued asset to our Township team by offering a new perspective to our council members as I am a hard-working Gas Fitter at Bryan's Fuels.

I am a great team player and have the ability to learn more about our community and help make it grow and prosper.

During the time I have lived in Melancthon I am very happy to call it my home and I would like to continue that by supporting the community with my councillorship.

I want to provide my neighbourhood and our community with the same township that I grew up in and preserve the integrity and future of our lands.

My familial background has roots in farming in Melancthon for three generations. I will be sure to give this position the rightful time and attention. I am ready and well able to accommodate this position, as my work hours are flexible and I am available every evening and weekends.

I hope you will consider me for this position, if you have any questions please don't hesitate to contact me by phone or email.

Thanks so much,

Thomas Reid  
(519) 278-6310  
Email [thomasreid7720@gmail.com](mailto:thomasreid7720@gmail.com)





The Corporation of

THE TOWNSHIP OF MELANCTHON

157101 Highway 10, Melancthon, Ontario, L9V 2E6

**TOWNSHIP OF MELANCTHON - COUNCIL VACANCY  
FREEDOM OF INFORMATION (FOI) RELEASE  
Municipal Elections Act, 1996**

Name of Candidate: Thomas Reid

In accordance with the Municipal Freedom of Information and Protection of Privacy Act, as amended, I hereby authorize Township Staff to include on the Township of Melancthon website and make available to any person the following information with respect to my candidacy for the Council vacancy:

Address:

476533 3rd line Melancthon

Telephone Number: 519 278 6310

Email Address: Thomasreid7720@gmail.com

Thomas Reid

Signature of Candidate

Feb 18 2021

Date



The Corporation of  
**THE TOWNSHIP OF MELANCTHON**  
157101 Highway 10, Melancthon, Ontario, L9V 2E6

### COUNCIL VACANCY APPLICATION FORM

Please complete this form in its entirety and submit in person (no fax or email) with identification (Passport or Driver's License) by 2:00 p.m. on Monday, February 22, 2021.

Denise B. Holmes, AMCT  
CAO/Clerk  
Township of Melancthon  
157101 Highway 10  
Melancthon, Ontario  
L9V 2E6

COUNCIL VACANCY APPLICATION FORM		
Name:	Jim Turner	
Qualifying Address:	682417 260 Sideroad Melancthon ONTARIO L9V 2N1	
Email Address:		
Telephone (Home):		
Telephone (Work):		
Telephone (Cell):	519-940-1732	
Eligibility Requirements	Yes	No
Canadian Citizen	✓	
Minimum 18 years of age	✓	
Eligible elector in the Township of Melancthon (owner or tenant or spouse of such owner or tenant)	✓	
Not prohibited from voting under any other Act or disqualified from holding municipal office	✓	✓

**Personal Statement - Please explain why you would like to serve on Council. Please attached your type-written statement to this Council Vacancy Application Form, on letter size (8.5" x 11") paper. Please do not exceed two (2) pages in length.**

**COUNCIL VACANCY APPLICATION FORM**

**Declaration of Qualification**

I, Jo Turner, an applicant mentioned in this application form, declare that I am presently legally qualified, or would be presently legally qualified if I were not a member of the Legislative Assembly of Ontario or the Senate or House of Commons of Canada, to be appointed and to hold the office to which I have applied for appointment and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Declared before me at the Township of Melancthon, in the County of Dufferin this 22 day of February, 2021.

Jo Turner  
Signature of Applicant

Denise B Holmes  
Signature of Clerk or Commissioner

Denise B Holmes  
Received by:

Feb 22/2021  
Date:

**CERTIFICATE**

I, the undersigned Clerk of this municipality, do hereby certify that I have examined the application form of the aforesaid applicant filed with me and I am satisfied that the nominee is qualified for appointment to municipal office.

Denise B Holmes  
Signature of Clerk or Designate

Feb 22/2021  
Date Certified:

Personal information collected on this form is pursuant to the Municipal Act and is collected in accordance with The Municipal Freedom of Information and Protection of Privacy Act and will be used for the purpose of determining a nominee's eligibility for appointment to municipal office. This application form will be attached to a Council and/or Special Council Meeting(s) and posted on the Township website. Questions can be directed to the Clerk.

February 22, 2021

Township of Melancthon

157101 Highway 10

Melancthon, Ontario

L9W 2E6

To whom it may concern,

I would like to apply to become a Council Member for the Township of Melancthon. I have lived in Melancthon Township my whole life. I married my wife Joanne in 1991. In 1992 we built our own house, we raised our 2 kids here and have been at the same address in Melancthon ever since. I have had my mechanic license since 1998, and I currently operate my own business on our property, since 2008. Now since my Dad passed away I am going to take his business over as well to help the people of the community.

I feel I am a worthy candidate for the council member position because I am a team player and know the history of Melancthon as I have lived here my whole life. I believe I would be a benefit to the township with my knowledge and experience of the township. I am willing to dedicate myself to this role to continue to make Melancthon such a great place to live.

If you have any further question don't hesitate to call 519-940-1732.

Yours truly,

Jim Turner

682423 260 Sideroad

Melancthon, Ontario

L9V2N1





The Corporation of

THE TOWNSHIP OF MELANCTHON

157101 Highway 10, Melancthon, Ontario, L9V 2E6

**TOWNSHIP OF MELANCTHON - COUNCIL VACANCY  
FREEDOM OF INFORMATION (FOI) RELEASE  
Municipal Elections Act, 1996**

Name of Candidate: Jim Turner

In accordance with the Municipal Freedom of Information and Protection of Privacy Act, as amended, I hereby authorize Township Staff to include on the Township of Melancthon website and make available to any person the following information with respect to my candidacy for the Council vacancy:

Address:

682417 260 sideroad Melancthon

Telephone Number: 519-940-1732

Email Address: \_\_\_\_\_

Jim Turner  
Signature of Candidate

Feb 22/2020  
Date



The Corporation of  
**THE TOWNSHIP OF MELANCTHON**  
157101 Highway 10, Melancthon, Ontario, L9V 2E6

### COUNCIL VACANCY APPLICATION FORM

**Please complete this form in its entirety and submit in person (no fax or email) with identification (Passport or Driver's License) by 2:00 p.m. on Monday, February 22, 2021.**

**Denise B. Holmes, AMCT  
CAO/Clerk  
Township of Melancthon  
157101 Highway 10  
Melancthon, Ontario  
L9V 2E6**

COUNCIL VACANCY APPLICATION FORM		
<b>Name:</b>	Alan Wilson	
<b>Qualifying Address:</b>	076040 7th Line SW L9V-2R4	
<b>Email Address:</b>	thewilsonhouse2@gmail.com	
<b>Telephone (Home):</b>		
<b>Telephone (Work):</b>		
<b>Telephone (Cell):</b>	(519) 217-4459	
<b>Eligibility Requirements</b>	<b>Yes</b>	<b>No</b>
Canadian Citizen	✓	
Minimum 18 years of age	✓	
Eligible elector in the Township of Melancthon (owner or tenant or spouse of such owner or tenant)	✓	
Not prohibited from voting under any other Act or disqualified from holding municipal office	✓	

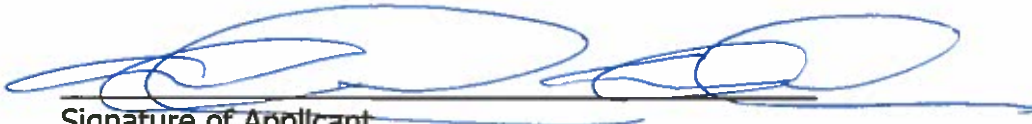
**Personal Statement - Please explain why you would like to serve on Council. Please attached your type-written statement to this Council Vacancy Application Form, on letter size (8.5" x 11") paper. Please do not exceed two (2) pages in length.**

# COUNCIL VACANCY APPLICATION FORM

## Declaration of Qualification

I, Alan Wilson, an applicant mentioned in this application form, declare that I am presently legally qualified, or would be presently legally qualified if I were not a member of the Legislative Assembly of Ontario or the Senate or House of Commons of Canada, to be appointed and to hold the office to which I have applied for appointment and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Declared before me at the Township of Melancthon, in the County of Dufferin this 19<sup>th</sup> day of FEBRUARY, 2021.

  
Signature of Applicant

Denise B. Holmes  
Signature of Clerk or Commissioner

Denise B. Holmes Received by: Feb. 19, 2021 Date:

## CERTIFICATE

I, the undersigned Clerk of this municipality, do hereby certify that I have examined the application form of the aforesaid applicant filed with me and I am satisfied that the nominee is qualified for appointment to municipal office.

Denise B. Holmes  
Signature of Clerk or Designate

Feb 22 / 2021  
Date Certified:

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Alan James Wilson  
076040 7<sup>th</sup> Line SW  
Melancthon, ON L9V 2B4  
519-217-4459

February 19, 2021

RE: Municipal County Vacancy – Councillor Position

My name is Alan Wilson and I have been a resident of Melancthon Township for over 30 years. I am a retiree from Honda Canada Manufacturing where I was a manager. My time at Honda involved valuable training in leadership, budget management, conflict resolution as well as workplace safety and root cause analysis. Currently, I am engaged in farming with my father, so the struggles of farm life are relatable to me.

I am interested in the councilor position so that I can have an active role in our community. I would like to build strong relationships and engage with my fellow residents to help them have their views expressed in a meaningful way. As a council member I would like to represent the public and consider the well being and interests of our municipality.

Having been a long time resident of Melancthon I believe that I am in-tune with the community's needs and that I could be a valuable point of contact for members in our municipality who have issues and opinions to share on how the community could be improved for all.

I believe my experience could help provide strategic thinking on a wide range of things such as budgeting, planning and economic development.

Thank you for your consideration, if you have any questions or require any further information please feel free to reach out.

Regards,



Alan Wilson





The Corporation of

THE TOWNSHIP OF MELANCTHON

157101 Highway 10, Melancthon, Ontario, L9V 2E6

**TOWNSHIP OF MELANCTHON - COUNCIL VACANCY  
FREEDOM OF INFORMATION (FOI) RELEASE  
Municipal Elections Act, 1996**

Name of Candidate: Alan Wilson

In accordance with the Municipal Freedom of Information and Protection of Privacy Act, as amended, I hereby authorize Township Staff to include on the Township of Melancthon website and make available to any person the following information with respect to my candidacy for the Council vacancy:

Address:

076040 7th Line SW Melancthon

Telephone Number: (519) 217-4459

Email Address: hewickhouse2@gmail.com

  
Signature of Candidate

Feb 19/2021  
Date