



Township of North Stormont

Agenda

Regular Meeting

Tuesday, March 25, 2025 6:00 PM

Council Chambers

Page

1. CALL TO ORDER

1.1. You are invited to a Zoom webinar!

When: Mar 25, 2025 06:00 PM Eastern Time (US and Canada)

Topic: March 25, 2025 - North Stormont Regular Council Meeting

Join from PC, Mac, iPad, or Android:

<https://us06web.zoom.us/j/87991753998?pwd=jha6ava4PgeFoQQSVI2gV9FXE0jDp2.1>

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BE it resolved that this regular meeting now open at ____ p.m.

2. OPENING REMARKS

3. ADOPTION OF THE AGENDA AMENDMENT(S) ADDITION(S) OR DELETION(S)

3.1. THAT the Council of the Township of North Stormont deviate from the regular order of business and move Section 14, Unfinished Business, to follow Section 4, Disclosure of Pecuniary Interest and Nature Thereof.

3.2. BE it resolved that the agenda be approved as amended.

4. DISCLOSURE OF PECUNIARY INTEREST AND NATURE THEREOF

5. PUBLIC MEETING

6. DELEGATIONS/PRESENTATIONS

7. ADOPTION OF MINUTES OF PREVIOUS MEETING

- 7.1. BE it resolved that the following minutes be approved as presented: 6 - 16
Special Meeting - March 4 Minutes
Regular Meeting - March 11 Minutes
[Special Meeting - 04 Mar 2025 - Minutes](#)
[Regular Meeting - 11 Mar 2025 - Minutes](#)

8. ADOPTION OF MINUTES OF COMMITTEES AND LOCAL BOARDS

9. RECEIVING OF MONTHLY STAFF REPORTS AND RECOMMENDATIONS

- 9.1. **Live Barn Streaming contract** 17 - 24
THAT the Council of the Township of North Stormont approves report 08-2025 from the Director of Parks, Recreation and Facilities and to enter into a contract with Live Barn for live streaming at the North Stormont Arena and authorizes the administration to sign the contract.
[REC08-2025Live Barn Streaming contract - Pdf](#)
- 9.2. **Request Transfer from Reserve** 25 - 28
THAT the Council of the Township of North Stormont approves report 09-2025 from the Director of Parks, Recreation and Facilities to allow for a transfer of \$3,650.00 from the Amalgamated Recreation Township Reserve for the replacement of the HVAC unit at the Avonmore Hall, known as NSP.
[REC09-2025Request transfer from reserve - Pdf](#)
- 9.3. **2025 Annual Development Allocation Report** 29 - 31
THAT the Council of the Township of North Stormont receives report 05-2025 from the Public Works Superintendent and approves the 2025 Annual Development Allocation recommendation for the Finch, Crysler, and Moose Creek municipal water and wastewater systems and approves the recommendation to determine the Annual Development Allocation for the year 2025.
[PW05-20252025 Annual Development Allocation Report - Pdf](#)
- 9.4. **Fourth Quarter Variance Report 2024** 32 - 55
THAT the Council of the Township of North Stormont accepts report FIN 03-2025 regarding the fourth quarter variance report ending December 31, 2024 for information purposes only.
[FIN03-2025Fourth Quarter Variance Report 2024 - Pdf](#)

10. MUNICIPAL BY-LAWS

11. CORRESPONDENCE

- 11.1. **SDG County Library** 56

[February Board Update](#)

- 11.2. **C.C.S. Food Bank** 57 - 58
[Financial Support Request](#)
- 11.3. **South Nation Conservation** 59 - 61
[Notice of 2025 Public Consultation - New Natural Hazard Maps](#)
- 11.4. **City of Sarnia** 62
[Resolution - Carbon Tax](#)
- 11.5. **Town of Bradford West Gwillimbury** 63 - 64
BE it resolved that the correspondence as listed as Items 11.1 to 11.5 on the agenda be received.
[Resolution - Landlord Tenant Reforms](#)

12. MOTIONS AND NOTICES OF MOTIONS

12.1. Ride Share Services

WHEREAS rideshare services operate primarily in urban areas, but many rural municipalities are growing significantly as a result of the Governments investment in housing and infrastructure but often lack access to services such as transportation for their residents due to limited availability throughout the day, regulatory barriers, infrastructure challenges or concerns about safety and service equity;

AND WHEREAS rideshare services currently are in lower demand in rural areas, but with the growth should still have the same uniform regulations, safety standards, equity access as the urban municipalities and should have a local control and flexibility to allow for adoption of specific regulations or requirements to reflect their local context for such services in the coming years for seniors, students, visitors and tourists that are looking for a safe, affordable and convenient way to travel in rural areas;

AND WHEREAS the standardization and consistency of an Ontario-wide regulatory framework such as driver and vehicle requirements, insurance requirements and fee structures would allow rural municipalities to also benefit from ridesharing services while addressing the unique challenges they face;

AND WHEREAS the Eastern Ontario Warden's Caucus (EOWC) representing 103 rural and urban municipalities across Eastern Ontario is in support of an Ontario-wide licensing framework for rideshare companies as are many urban and rural municipalities;

THEREFORE BE IT RESOLVED that the Township of North Stormont hereby urges the Provincial Government to adopt an Ontario-wide adaptable licensing framework that empowers rural municipalities to

provide their residents with the benefits of ridesharing services while addressing local needs as well as safety concerns and equity issues.

AND FURTHER BE IT RESOLVED that this resolution be distributed to the Honourable Doug Ford, Premier of Ontario, the Honourable Prabmeet Sarkaria, Minister of Transportation, the Honourable Rob Flack, Minister of Municipal Affairs and Housing, the Association of Municipalities of Ontario (AMO), the Eastern Ontario Wardens Caucus (EOWC), Nolan Quinn, M.P.P for Stormont-Dundas-South Glengarry, Martin Lang, Warden of SDG Counties, and all lower tier municipalities in SDG.

13. PETITIONS

14. UNFINISHED BUSINESS

14.1. R.V. Anderson Associates Ltd.

65 - 261

Crysler, Finch & Moose Creek Water and Wastewater Master Plan - Final Copy

THAT the Council of the Township of North Stormont reconsiders the original request to receive and accept the final report and appendices for the Villages of Chrysler, Finch and Moose Creek Water and Wastewater Master Plan from R.V. Anderson Associates Ltd. as presented at the February 25th and March 11th regular meetings of Council.

[Unfinished Business - North Stormont - WW MP - Final with Appendices](#)

14.2. Council Remuneration 2024

262

THAT the Council of the Township of North Stormont reconsiders the original request to accept the 2024 Treasurer's Statement of Monies Paid to Elected Officials of the Township of North Stormont (remuneration) as presented for information purposes at the March 11th regular meeting of Council.

[Council Expenses - Treasurer](#)

15. NEW BUSINESS

16. SCHEDULING OF MEETINGS

16.1. April 8, 2025 - Regular Council Meeting 6:00pm

April 10, 2025 - 3 Court of Revision Meetings 3:30pm - Moose Creek Community Hall

April 22, 2025 - Regular Council Meeting 6:00pm

17. COMING EVENTS

17.1. [Comming Events Listing](#)

263

18. CLOSING REMARKS OR COUNCIL COMMENTS

19. CLOSED SESSION

20. RATIFICATION/CONFIRMING BY-LAW

20.1. By-Law No. 22-2025 - Ratification

264

BE it resolved that By-Law No. 22-2025, being a By-law to adopt, confirm and ratify Council's actions at its regular meeting of March 25, 2025, be read a first, second and third time, passed, signed and sealed in Open Council this 25th day of March, 2025.

[22-2025 - Ratify March 25](#)

21. ADJOURNMENT

21.1. BE it resolved that this regular meeting adjourn at ____ p.m.



**Township of North Stormont
MINUTES
Special Meeting
Tuesday, March 4, 2025
Moose Creek Community Hall
6:00 PM**

- COUNCIL PRESENT:** François Landry, Mayor
Steve Densham, Deputy Mayor
Alison McDonald, Councillor
Charles Shane, Councillor
- COUNCIL ABSENT:** Adrian Bugelli, Councillor
- STAFF PRESENT:** Craig Calder, CAO/Clerk
- OTHERS PRESENT:** Sean MacDonald, Drainage Superintendent
Monica Shade, Shade Group Inc.
12 Landowners

1. CALL TO ORDER (Opening Remarks)

*RES-64-2025 Moved by Deputy Mayor Densham, Seconded by Councillor McDonald
BE it resolved that this special meeting now open at 6:07 p.m.
CARRIED*

2. ADOPTION OF THE AGENDA AMENDMENT(S) ADDITION(S) OR DELETION(S)

*RES-65-2025 Moved by Councillor McDonald, Seconded by Councillor Shane
BE it resolved that the agenda be approved as presented.
CARRIED*

3. DISCLOSURE OF PECUNIARY INTEREST AND NATURE THEREOF

4. DELEGATIONS/PRESENTATIONS

Presentation Monica Shade of Shade Group Inc.

Monica provided a brief overview of the SDG County Road 22 widening and improvement project to Council, Staff and the public present. Monica also presented a copy of the final reports for the three associated drains for the SDG County Road 22 widening and improvement project, the Morrow Brabec Branch of the Cumming Municipal Drain, the County Road Branch of the Municipal Drain (including Morrow

Spur), and the McRae Branch of McKenzie Municipal Drain (including Brabant Branch). An overview of the process and next steps if Council wished to move forward with these requests was also discussed.

Public Meeting Concerning all three drains

Council Questions/Concerns

1. Deputy Mayor Densham asked a procedural question of when the Court of Revision would be held for these three drain requests.

Sean mentioned that we would be looking at having this meeting in early April, date to be confirmed following the meeting to consider.

2. Councillor McDonald asked about longer culverts for the landowners affected by these drains.

Monica confirmed that the increased length of culverts as a result of the 3:1 end wall slope would be charged to the Counties as a special benefit charge when they require replacement. County policy is 2:1, however most drain culverts were designed at 3:1, which resulted in the need for longer culverts.

3. Councillor McDonald enquired about enclosures, are they common? Pipe drains are of some concern going forward.

Sean mentioned that they are more common in Southern Western at this time, but we are seeing more enclosures.

Monica also provided an overview of closed drains explaining that this should be an improvement and less erosion.

4. Mayor Landry questioned how often would each drain be cleaned out?

Sean said typical cycle of 10 years would be on the low end and up to 25 years if the drain is operating well.

5. Mayor Landry also mentioned that this project was supposed to have started approximately 6 years prior, he wondered what is actually the start date, when will everything be shovel ready?

Sean mentioned that we are actually ahead of the schedule for now if there are no appeals under the *Drainage Act*. The in-water drainage work can start as early as July due to environmental timelines.

There were no questions or concerns raised by the public.

5. RECEIVING OF MONTHLY STAFF REPORTS AND RECOMMENDATIONS

**SDG County Road 22 widening and improvement project
Morrow Brabec Branch of Cumming Municipal Drain**

RES-66-2025 Moved by Councillor McDonald, Seconded by Deputy Mayor Densham THAT the Council of the Township of North Stormont accepts and receives this Drainage Superintendent report to support and approve the Engineer's report to be passed provisionally by By-law prepared under Section 78(1) of the Drainage Act by Shade Group Inc. to enable alterations and provide amendments to the previously adopted Morrow Brabec Branch of Cumming Municipal drain.

CARRIED

**SDG County Road 22 widening and improvement project
County Road Branch of Cumming Municipal Drain (including Morrow Spur)**

RES-67-2025 Moved by Councillor Shane, Seconded by Councillor McDonald THAT the Council of the Township of North Stormont accepts and receives this Drainage Superintendent report to support and approve the Engineer's report to be passed provisionally by By-law prepared under Section 78(1) of the Drainage Act by Shade Group Inc. to enable alterations and provide amendments to the previously adopted County Road Branch of Cumming Municipal drain.

CARRIED

**SDG County Road 22 widening and improvement project
McRae Branch of McKenzie (including Brabant Branch) Municipal Drain**

RES-68-2025 Moved by Deputy Mayor Densham, Seconded by Councillor McDonald THAT the Council of the Township of North Stormont accepts and receives this Drainage Superintendent report to support and approve the Engineer's report to be passed provisionally by By-law prepared under Section 78(1) of the Drainage Act by Shade Group Inc. to enable alterations and provide amendments to the previously adopted McRae Branch and Brabant Branch of McKenzie Municipal drain.

CARRIED

6. MUNICIPAL BY-LAWS

By-Law No. 15-2025 - Morrow Brabec Branch of Cumming Municipal Drain

RES-69-2025 Moved by Councillor Shane, Seconded by Councillor McDonald BE it resolved that By-Law No. 15-2025, being a By-law to provide for updates to the Morrow Brabec Branch of Cumming Municipal Drain pursuant to Section 78(1) of the Drainage Act, R.S.O. 1990, C.D.17, be read a first and second time and provisionally adopted, signed and sealed this 4th day of March, 2025.

CARRIED

**By-Law No. 16-2025 - County Road Branch of Cumming Municipal Drain
(including Morrow Spur)**

RES-70-2025 Moved by Councillor McDonald, Seconded by Deputy Mayor Densham
BE it resolved that By-Law No. 16-2025, being a By-law to provide for updates
to the County Road Branch of Cumming Municipal Drain (including Morrow
Spur) pursuant to Section 78(1) of the Drainage Act, R.S.O. 1990, C.D.17, be
read a first and second time and provisionally adopted, signed and sealed this
4th day of March, 2025.

CARRIED

**By-Law No. 17-2025 - McRae Branch of McKenzie Municipal Drain (including
Brabant Branch)**

RES-71-2025 Moved by Councillor Shane, Seconded by Councillor McDonald
BE it resolved that By-Law No. 17-2025, being a By-law to provide for updates
to the McRae Branch of McKenzie Municipal Drain (including Brabant Branch)
pursuant to Section 78(1) of the Drainage Act, R.S.O. 1990, C.D.17, be read a
first and second time and provisionally adopted, signed and sealed this 4th day
of March, 2025.

CARRIED

7. CLOSED SESSION

8. RATIFICATION/CONFIRMING BY-LAW

By-Law No. 18-2025

RES-72-2025 Moved by Councillor McDonald, Seconded by Deputy Mayor Densham
BE it resolved that By-Law No. 18-2025, being a By-law to adopt, confirm and
ratify Council's actions at its special meeting of March 4, 2024, be read a first,
second and third time, passed, signed and sealed in Open Council this 4th day
of March, 2025.

CARRIED

9. ADJOURNMENT

RES-73-2025 Moved by Councillor McDonald, Seconded by Councillor Shane
BE it resolved that this special meeting adjourn at 6:40 p.m.

CARRIED

CAO/Clerk

Mayor



**Township of North Stormont
MINUTES
Regular Meeting
Tuesday, March 11, 2025
Council Chambers
6:00 PM**

COUNCIL PRESENT: François Landry, Mayor
Steve Densham, Deputy Mayor
Adrian Bugelli, Councillor
Alison McDonald, Councillor
Charles Shane, Councillor

COUNCIL ABSENT:

STAFF PRESENT: Craig Calder, CAO/Clerk
Lea Anne Munro, Deputy Clerk
Kimberley Goyette, Treasurer
Blake Henderson, Public Works Superintendent
Nancy-Ann Gauthier, Fire Chief / Municipal Law Enforcement Officer
Pierre Thibault, Director Parks, Recreation and Facilities

OTHERS PRESENT: Peter Young, Director of Planning & Economic Development Services

1. CALL TO ORDER

You are invited to a Zoom webinar!

When: Mar 11, 2025 06:00 PM Eastern Time (US and Canada)

Topic: Regular Council Meeting

Join from PC, Mac, iPad, or Android:

<https://us06web.zoom.us/j/87807099031?pwd=UTAu0aUq0pbJjqOgKMbAHtCpTREIxR.1>

Passcode:304167

Phone one-tap:

+17806660144,,87807099031#,,,,*304167# Canada

+12042727920,,87807099031#,,,,*304167# Canada

Join via audio:

+1 780 666 0144 Canada

+1 204 272 7920 Canada

+1 438 809 7799 Canada

+1 778 907 2071 Canada

Webinar ID: 878 0709 9031

Passcode: 304167

International numbers available: <https://us06web.zoom.us/u/keCI5xJ17P>

RES-74-2025 *Moved by Deputy Mayor Densham, Seconded by Councillor McDonald
BE it resolved that this regular meeting now open at 6:16 p.m.*
CARRIED

2. OPENING REMARKS

Mayor Landry extended a warm welcome to members of Council, Staff and public that were present to this special occasion, the first official Council meeting in the beautiful new administration building. Mayor Landry went on to say that this will be significant to serve the public for many years to come. Mayor Landry also acknowledged and thanked the Happy Face Nursery School for their collaboration on their newly renovated space in the building for daycare, this is a much-needed service and will bring close to fifty children to the daycare that will make a meaningful impact for local families.

In the near future Mayor Landry will be issuing an invite out to the public for a walk through, more information will be announced in the coming weeks.

Deputy Mayor Densham also took the opportunity to express a welcome to staff and the public in attendance of this first meeting in the new council chamber. The Deputy Mayor also mentioned that the school had been a community hub, and he was glad to see that the building will continue to be such and will play such an important part in the community. He thanked and congratulated the staff that worked on the project and helped make a smooth transition to the new administration space.

3. ADOPTION OF THE AGENDA amendment(s) addition(s) or deletion(s)

RES-75-2025 *Moved by Deputy Mayor Densham, Seconded by Councillor McDonald
THAT the Council of the Township of North Stormont deviate from the agenda as presented and move item 9.4, Community Improvement Advisory Committee, after item 9.7, Shared Service Agreement with SDG Counties;*

AND FURTHER THAT the Council of the Township of North Stormont consider the addition of \$2,200.00 for the emergency replacement of a hot water tank at North Stormont Place, the total then of item 14.2 increasing from \$8,300.00 as originally proposed to a total of \$10,500.00.

CARRIED

RES-76-2025 *Moved by Councillor Bugelli, Seconded by Councillor Shane
BE it resolved that the agenda be approved as amended.*
CARRIED

4. DISCLOSURE OF PECUNIARY INTEREST AND NATURE THEREOF

5. PUBLIC MEETING

6. DELEGATIONS/PRESENTATIONS

7. ADOPTION OF MINUTES OF PREVIOUS MEETING

*RES-77-2025 Moved by Deputy Mayor Densham, Seconded by Councillor McDonald
BE it resolved that the following minutes be approved as presented:
Special Meeting - February 21 - Minutes
Regular Meeting - February 25 - Minutes
CARRIED*

8. ADOPTION OF MINUTES OF COMMITTEES AND LOCAL BOARDS

South Nation Conservation Board Minutes

*RES-78-2025 Moved by Councillor McDonald, Seconded by Deputy Mayor Densham
THAT the Council of the Township of North Stormont accept and approve the
following committee minutes as presented:
South Nation Conservation Board Minutes of January 16, 2025
for information purposes.
CARRIED*

9. RECEIVING OF MONTHLY STAFF REPORTS AND RECOMMENDATIONS

*RES-79-2025 Moved by Councillor McDonald, Seconded by Councillor Shane
BE it resolved that the following monthly reports be received:
By-Law Enforcement
Building
Fire
Recreation & Facilities
Public Works
CAO
CARRIED*

Plan of Subdivision No.01-NS-S-2024 (Blanchard)

*RES-80-2025 Moved by Deputy Mayor Densham, Seconded by Councillor McDonald
THAT the Council of the Township of North Stormont accepts report 02-2025
from the Planning Department to support Plan of Subdivision Application
No.01-NS-S-2024 on the conditions of approval described in Schedule "A" of
the Action Request dated March 11, 2025;
AND FURTHER THAT these conditions be forwarded to SDG Counties and
the applicant, representing the Township's formal comments on the proposal.
CARRIED*

2024 Drinking Water Systems Annual Reports

RES-81-2025 Moved by Deputy Mayor Densham, Seconded by Councillor McDonald
THAT the Council of the Township of North Stormont receives report 04-2025 from the Public Works Superintendent and accepts the annual report from the Ontario Clean Water Agency for the drinking water systems in Crysler, Finch, and Moose Creek.

CARRIED

Emergency Management - Volunteer Agreement Extension

RES-82-2025 Moved by Councillor McDonald, Seconded by Councillor Shane
THAT the Council of the Township of North Stormont receives report 06-2025 from the CAO/Clerk and approve the request, for a one (1) year extension to the emergency management volunteer agreement with Sauvetage Benevole Outaouais Ottawa Volunteer Search & Rescue (SBO-OVSAR).

CARRIED

Human Resource Policy

RES-83-2025 Moved by Councillor McDonald, Seconded by Deputy Mayor Densham
THAT the Council of the Township of North Stormont receive report 07-2025 from the CAO/Clerk to endorse and approve the changes to the Human Resources Policy as follows:

Changes specific to sick days by reducing sick days to ten (10) annually and includes Special Leave. Further, the cessation of annual payout of unused sick time.

CARRIED

Shared Service Agreement with SDG Counties

RES-84-2025 Moved by Councillor Bugelli, Seconded by Councillor Shane
THAT the Council of the Township of North Stormont approves report 08-2025 and the attached service level agreement for communication services and economic development from the CAO/Clerk.

CARRIED

Community Improvement Advisory Committee

RES-85-2025 Moved by Deputy Mayor Densham, Seconded by Councillor McDonald
THAT the Council of the Township of North Stormont accepts and approves report 05-2025 from the CAO/Clerk to appoint the following persons to the Community Improvement Advisory Committee for the term of Council:

- (1) Deputy Mayor Steve Densham
- (2) Councillor Adrian Bugelli
- (3) CAO, Craig Calder
- (4) CBO, Andre Brisson
- (5) Connie-Blanchard-Nielsen (Public Member)

CARRIED

10. MUNICIPAL BY-LAWS

By-Law No. 19-2025 - Road Widening

*RES-86-2025 Moved by Councillor Shane, Seconded by Councillor Bugelli
BE it resolved that By-Law No. 19-2025, being a By-law to accept a deed of land and to dedicate the land as a Public Highway, be read a first, second and third time, passed, signed and sealed in Open Council this 11th day of March, 2025.*

CARRIED

By-Law No. 20-2025 - Amend By-law No. 94-2022 to Appoint Committee Members

*RES-87-2025 Moved by Councillor Bugelli, Seconded by Councillor Shane
BE it resolved that By-Law No. 20-2025, being a By-law to amend By-Law No. 94-2022 to appoint members to the Community Improvement Advisory Committee for the Township of North Stormont, be read a first, second and third time, passed, signed and sealed in Open Council this 11th day of March, 2025.*

CARRIED

11. CORRESPONDENCE

*RES-88-2025 Moved by Councillor Shane, Seconded by Councillor Bugelli
BE it resolved that the correspondence as listed as Items 11.1 to 11.7 on the agenda be received.*

CARRIED

12. MOTIONS AND NOTICES OF MOTIONS

13. PETITIONS

14. UNFINISHED BUSINESS

R. V. Anderson Associates Ltd. Crysler, Finch and Moose Creek Water and Wastewater Master Plan - Final Copy

*RES-89-2025 Moved by Councillor Bugelli, Seconded by Councillor Shane
THAT the Council of the Township of North Stormont reconsiders the original request to receive and accept the final report and appendices for the Villages of Crysler, Finch and Moose Creek Water and Wastewater Master Plan from R.V. Anderson Associates Ltd. as presented at the February 25th regular meeting of Council.*

DEFERRED

Reserve Transfer for HVAC Repairs and Generator repairs

MOTION AMENDED

*RES-90-2025 Moved by Councillor Bugelli, Seconded by Councillor Shane
THAT the Council of the Township of North Stormont reconsiders the original request to approve the report from the Director of Parks, Recreation and Facilities that was presented at the February 25th regular meeting of Council for a transfer of a maximum of \$6,000 from the Amalgamated Recreation Township reserve to fund two replacement motors on the HVAC system at the Finch Community Centre and allow a transfer from reserve for the parts required for the Chrysler Centre generator in the amount of \$2,300.00. Total request from the reserve will be ~~\$8,300.00~~, \$10,500.00 as amended by Council.*

CARRIED

15. NEW BUSINESS

Council Remuneration for 2024

*RES-91-2025 Moved by Councillor Shane, Seconded by Councillor Bugelli
THAT the Council of the Township of North Stormont accepts the 2024 Treasurer's Statement of Monies Paid to Elected Officials of the Township of North Stormont (remuneration) as presented for information purposes.*

DEFERRED

16. SCHEDULING OF MEETINGS

March 25, 2025 - Regular Council Meeting 6:00pm

April 8, 2025 - Regular Council Meeting 6:00pm

17. COMING EVENTS

18. CLOSING REMARKS OR COUNCIL COMMENTS

19. CLOSED SESSION

20. RATIFICATION/CONFIRMING BY-LAW

By-Law No. 21-2025 - Ratification

*RES-92-2025 Moved by Councillor Bugelli, Seconded by Councillor Shane
BE it resolved that By-Law No. 21-2025, being a By-law to adopt, confirm and ratify Council's actions at its regular meeting of March 11, 2025, be read a first, second and third time, passed, signed and sealed in Open Council this 11th day of March, 2025.*

CARRIED

21. ADJOURNMENT

*RES-93-2025 Moved by Councillor Bugelli, Seconded by Councillor Shane
BE it resolved that this regular meeting adjourn at 8:02 p.m.*
CARRIED

Mayor

CAO/CLERK

		The Corporation of the Township of NORTH STORMONT	Report No. REC-08- 2025
Agenda Date:	March 25, 2025		
Subject:	Live Barn Streaming contract		
Attachments:	<input type="checkbox"/> LB Standard Venue Agreement - NORTH STORMONT - Mar 2025		

1.0 RECOMMENDATION

THAT the Council of the Township of North Stormont approves report 08-2025 from the Director of Parks, Recreation and Facilities and to enter into a contract with Live Barn for live streaming at the North Stormont Arena and authorizes the administration to sign the contract.

2.0 LEGAL DESCRIPTION

A legal contract between the Township of North Stormont and LiveBarn INC.

3.0 BACKGROUND

Over the past few years, the EOH Hockey Association, and several other associations, have experienced verbal abuse toward referees, coaches, and players from spectators. This new concept of live streaming will allow the association's administration to monitor any incidents of abuse directed at officials and coaches. Live streaming has become increasingly popular, and is becoming common practice in/at public arenas, sports fields, both indoor and outdoor.

Not only will this serve as a valuable tool for maintaining discipline and is anticipated to be a deterrent to negative and abusive behaviors, but it also offers another benefit. A membership to the live streaming service will allow individuals to watch any sports game held at the rink, providing the opportunity for people to view family members participating in sporting events. This new initiative will enable any member to watch live games from the comfort of their homes, making North Stormont Arena part of the modern technology revolution in sports facilities.

4.0 POLICY CONSIDERATION

The administration has reviewed the Video Surveillance Policy (Bylaw #76-2019) to ensure it does not contradict any provisions in our policy.

5. ANALYSIS 0

After a discussion with the staff of Live Barn, the Director asked the following questions to ensure all details were understood and that the legal team's expertise was consulted. Since the arena and other sports fields are public spaces, there are no concerns regarding live streaming; however, the Director took precautions and asked the distributor the following questions:

1. **Privacy:** Cameras will be limited to public spaces only (no dressing rooms, washrooms, etc.). This was confirmed by Live Barn Inc.
2. **Footage Retention:** Footage will be stored for 30 days to comply with public requests under Bylaw #76-2019 and will be available upon request. This was confirmed by Live Barn Inc.
3. **Availability to Download Videos:** If you require a permanent copy of any video on demand, complimentary admin accounts can be provided to allow users to download content. When downloading a video, it will be saved to the user's PC in MP4 format, providing a permanent copy for future reference.
4. **Blackout Times:** Blackout times will be available at any time and will be handled internally according to the arena's operational schedule.
5. **Availability to Other Groups:** The system is available to any sports or organization, not just HEO (Hockey Eastern Ontario). For instance, Broomball and other sports organizations will also have access to live streaming.
6. **Streaming Viewing for Staff:** Streaming access will be provided to staff to monitor any ice incidents or other necessary activities during events.

This service is provided at no cost to the Township. Internet, services, equipment, training for blackouts, and video recording will be provided to the administration staff. Live Barn is 100% responsible for the service and equipment. Any damage to equipment, replacements, and service calls will be handled by Live Barn Inc. at their own cost.

Additionally, the Township could potentially benefit from membership fees amounting to 20% of the proceeds or, alternatively, could promote the service and allow users to receive a 10% rebate, as per item 1.5 of the proposed contract.

The council are invited to view the live streaming and service ,please follow the link below :

<https://live-barn.v5.platform.sportsdigita.com/2imk5h9utgnqj3k1q31gzul00r6o4?viewerUserId=67bfd1e4992ecb893ab4e570#/>

6.0 ENVIRONMENTAL CONSIDERATIONS

7.0 RECOMMENDED CONDITIONS

1. **Approval of New Technology:** That the Council approves the integration of Live Barn's live streaming technology within its recreation facilities, including the North Stormont Arena, and considers extending this technology to other public sports facilities in the future.
2. **Privacy Protection:** Cameras will be limited to public spaces only (no access to dressing rooms, washrooms, or private areas), as confirmed by Live Barn Inc. This condition ensures compliance with privacy standards.
3. **Footage Retention and Access:** Footage will be retained for 30 days to comply with the requirements of Bylaw #76-2019. Footage will be available to the public upon request, as per the legal framework. The Director has confirmed this with Live Barn Inc.
4. **Download and Access to Video Content:** Complimentary admin accounts will be provided to the administration, enabling the downloading of video content. Downloaded videos will be in MP4 format, ensuring permanent copies are accessible when required.
5. **Blackout Scheduling:** Blackout periods will be available at any time, and scheduling of blackouts will be handled internally by the administration according to the rink's operational needs.
6. **Availability to Other Organizations:** The Live Barn service will not be limited to Hockey Eastern Ontario (HEO) but will be available for any sports or organization utilizing the arena and facilities. For example, Broomball and other sports groups will also have access to live streaming services.
7. **Staff Viewing for Incident Monitoring:** Live streaming access will be provided to staff for monitoring ice incidents or any other necessary activities. This will support prompt response to incidents or concerns during events.
8. **Cost and Responsibility:** The service is provided at no cost to the Township. Live Barn will be responsible for providing the necessary internet, equipment, and training. Live Barn Inc. will also be fully responsible for any equipment damage, replacements, and service calls at their cost.
9. **Review and Evaluation:** The administration will regularly review the implementation and usage of the live streaming service to ensure compliance with these conditions and ensure its continued benefit to the community.

8.0 ALTERNATIVES

That the council could refuse the recommendation to sign the live streaming contract and continue with its regular service.

FINANCIAL/STAFFING IMPLICATIONS

This item has been approved in the current budget: Yes No N/A
This item is within the approved budgeted amount: Yes No N/A
This item is mandated by the Provincial/Federal Government: Yes No N/A

Prepared By:



**Pierre Thibault
Director of Parks
Recreation & Facilities**

**Reviewed and submitted
by:**



**Craig Calder
CAO/Clerk**

**Submitted for Council
consideration by:**



**Craig Calder
CAO/Clerk**



VENUE AGREEMENT

DATE:

BETWEEN: LIVEBARN INC. (“LiveBarn”)

and

TOWNSHIP OF NORTH STORMONT (“Venue Owner”)

WHEREAS LiveBarn Inc. and Venue Owner wish to enter into this Agreement pursuant to which LiveBarn will install at Venue Owner’s Ice Rink Sheet described in the attached Schedule “A” (each being an “Ice Rink Sheet”) a fully automated online streaming system for the delivery of live and/or on demand video and audio streaming to internet connected devices such as smartphones, computers or tablets (the “Automated Online Streaming Service”);

WHEREAS the Automated Online Streaming Service offered by LiveBarn can stream Content (as defined below) via LiveBarn’s subscription-based platform (the “LiveBarn Platform”).

NOW, THEREFORE, in consideration for the mutual promises set out below, and for other good and valuable consideration acknowledged by the parties, LiveBarn and Venue Owner agree as follows:

1 AUTOMATED ONLINE STREAMING SERVICE

1.1 LiveBarn shall, at its own expense, install and maintain all hardware, software and internet bandwidth required for the operation and maintenance of the Automated Online Streaming Service in regards to each Ice Rink Sheet. The initial installation will occur within six months from the date of this Agreement (such six month date being herein referred to as the "Latest Install Date"); it will be scheduled with the written approval (including email) of Venue Owner, and concurrently with the installation, LiveBarn will specifically explain to Venue Owner representative onsite exactly where any hardware or other components will be installed. Installation will then only proceed with the consent of Venue Owner which consent will be deemed upon LiveBarn undertaking its installation. The initial installation for each Ice Rink Sheet shall include one (1) computer, one (1) router, one (1) modem, between one (1) and three (3) power converters, and up to two (2) cameras to be placed on the side walls or on the beams or columns extending from the walls. The internet connection and computer shall be located adjacent to the respective Ice Rink Sheet in a secure location with electrical power outlets. The exact selection of camera locations will be made after consideration for optimal streaming quality and avoidance of any obstruction. Any modification to the installation will only be undertaken with the permission and process with Venue Owner as outlined above. Venue Owner shall assume the cost of electricity for the components installed in connection with this Agreement.

1.2 In addition LiveBarn shall, at its expense and upon Venue Owner’s request, install one TV which will display a combination of LiveBarn highlights and a live feed, as well as additional LiveBarn information.

1.3 Title to all hardware, software, and wiring shall remain in the name of LiveBarn.

1.4 Subject to sections 1.8 and 1.9 below, all content streamed using the Automated Online Streaming Service, including the video and audio relating to all sports and recreational activities occurring on each Playing Surface (collectively, the “Content”) will be made available to subscribers of the LiveBarn Platform on a monthly subscription basis. In addition, per copyright for specific events, the Content may be made available only to users on an alternative platform. In either case, LiveBarn will determine the pricing for the applicable platform. From time to time, LiveBarn may provide a free trial at its discretion.

1.5 Revenue generated from the Automated Online Streaming Service will be the property of LiveBarn; however for content streamed on the LiveBarn platform, LiveBarn will supply Venue Owner with a unique code to enable it to market and solicit new memberships for the LiveBarn Platform, for which LiveBarn will pay Venue Owner twenty percent (20%) of the revenues generated from the LiveBarn Platform memberships over the full lifetime of these memberships, during the term of this Agreement. The above code will enable Venue Owner to solicit LiveBarn memberships by providing potential members with the attraction of a 10% discount. This code will track the memberships generated by Venue Owner on a quarterly basis. The above payments to Venue Owner will only apply to LiveBarn memberships originated with the unique code allocated to Venue Owner. LiveBarn will pay Venue Owner its revenue share within 30 days of the end of each calendar quarter together with a corresponding revenue statement. Venue Owner will provide a staff person to communicate with and receive LiveBarn’s various local marketing initiatives (including social media) as described below.

1.6 LiveBarn shall be the exclusive owner of all rights in and to the Content, and shall have the exclusive right to Streaming the Content for all purposes and in any manner it determines in its sole discretion, including by providing its Streaming signal to national broadcasters and digital media distributors. Without limiting the foregoing, the Venue Owner acknowledges that online distributions of the Content from each Ice Rink Sheet will be made available to all subscribers of the LiveBarn Platform, subject to sections 1.8 and 1.9 below.

1.7 LiveBarn will provide Venue Owner with an exclusive online administrative password to enable Venue Owner in its discretion to “blackout” any particular dates or time periods from being streamed on any selected Ice Rink Sheet (the “Blackout Restrictions”).



VENUE AGREEMENT

1.8 LiveBarn will also provide Venue Owner with the ability in its discretion to restrict viewer access to any streaming from its Venue to a pre-selected potential audience for privacy purposes.

1.9 During the Term (as defined below), LiveBarn will provide Venue Owner with three (3) complimentary LiveBarn accounts for each Ice Rink Sheet.

1.10 LiveBarn will hold Venue Owner harmless for any injuries to LiveBarn employees and agents in connection with their work.

2 TERM AND TERMINATION

2.1 The term of this Agreement commences on the date hereof and continues until the six year anniversary of the Latest Install Date (the "Term"), and it will automatically renew for successive terms of two (2) years, unless either party notifies the other in writing of its intent to discontinue this Agreement at least ninety (90) days before the expiration of the then current term.

2.2 Notwithstanding the foregoing, but subject to Subsection 3.1 below, either party shall have the right to terminate this Agreement for any reason upon giving (90) days written notice to the other party.

2.3 Upon termination of this Agreement by expiration of the term or for any other cause, LiveBarn shall, at its own cost and expense, remove all hardware, software and wiring from Venue Owner's location.

2.4 Venue Owner shall have the right to terminate this Agreement if LiveBarn materially breaches this Agreement and the material breach is not cured to within forty (40) days after Venue Owner provides written notice which outlines such breach to LiveBarn.

3 EXCLUSIVITY

3.1 In consideration for the investment of time and expense incurred by LiveBarn to fulfill its obligations under this Agreement, the receipt and sufficiency of which is hereby acknowledged, the Venue Owner hereby declares and agrees that for the initial period of six (6) years, and all renewal periods, from the commencement date of the Term, and notwithstanding the termination of this Agreement by the Venue Owner, for any reason, LiveBarn shall have the absolute exclusivity to stream Content from each of the Ice Rink Sheets using unmanned operated cameras. For greater certainty, the said exclusivity shall apply for the six (6) year period even if the Venue Owner elects to terminate this Agreement pursuant to Subsection 2.2 above prior to the expiration of the Term.

3.2 The Venue Owner hereby declares and acknowledges that the foregoing exclusivity, including the term thereof, is reasonable in the circumstances, and that LiveBarn is relying upon such exclusivity in connection

with the provision of the Automated Online Streaming Service and that LiveBarn would not have entered into this Agreement without such exclusivity. However, the foregoing exclusivity shall not apply should LiveBarn cease operations or to the extent Venue Owner terminates this agreement in accordance with section 2.4.

3.3 Venue Owner acknowledges and agrees that, in the event of a breach or threatened breach by it of the provisions of Subsection 3.1 above, LiveBarn will have no adequate remedy in money or damages and, accordingly, shall be entitled to an injunction in a court of competent jurisdiction against such breach. However, no specification in this Agreement of any specific legal or equitable remedy shall be construed as a waiver or prohibition against any other legal or equitable remedies in the event of a breach of any of the provisions of this Agreement.

4 SUPPLY OF AUTOMATED ONLINE STREAMING SERVICE

4.1 LiveBarn will use reasonable skill and care to make the Automated Online Streaming Service available throughout the Term. Notwithstanding the foregoing, LiveBarn shall have no responsibility, liability, or obligation whatsoever to Venue Owner, or any other third party, for any interruptions of the Automated Online Streaming Service.

4.2 LiveBarn may, without any liability to Venue Owner, suspend the supply of all or part of the Automated Online Streaming Service upon giving Venue Owner notice. This would occur if the LiveBarn equipment is repeatedly damaged or LiveBarn is unable to obtain a sufficient internet signal to the venue.

4.3 The Venue Owner agrees to notify LiveBarn by email to venuesupport@livebarn.com as soon as it becomes aware of any interruption or malfunction with the Automated Online Streaming Service. Venue Owner will not be responsible for damage or malfunction of any equipment and LiveBarn will repair or replace at its cost any malfunctioning components which is required. Any required service visit by LiveBarn will be scheduled with the written approval (including email) of Venue Owner. LiveBarn will specifically explain the repair, replacement or service work to Venue Owner representative onsite and this work will only proceed with the consent of Venue Owner which consent will be deemed upon LiveBarn undertaking its work.

4.4 From time to time there will be on site adjustments requiring assistance from a technically proficient person at the Venue. Venue Owner will be responsible to supply such person when necessary.

5 NOTICE TO PUBLIC

5.1 The Venue Owner agrees to post a notice at the entrance to its venue and inside each Ice Rink Sheet, advising the public that the venue is monitored by video cameras for security, safety and commercial purposes, and participants waive any claim relating to the capture or



VENUE AGREEMENT

public transmission of his/her participation while at the venue. LiveBarn will supply and post these notices during its initial installation and reserves the right to modify the language contained therein from time to time, in its sole discretion, to satisfy its legal obligations.

5.2 In all agreements with parties for usage of the Venue, Venue Owner will include provisions both disclosing the existence of LiveBarn streaming at the Venue and requiring such parties to notify all their users of the Venue of this. LiveBarn and Venue Owner each agree to not stream any Content if it is properly notified in writing, in advance, by any individual directly related to the Content.

6 MARKETING

6.1 Venue Owner agrees to promote LiveBarn through all available avenues discussed in this section, understanding that it is in Venue's best interest financially to market LiveBarn to their customers and patrons. LiveBarn will also provide, at its expense, a minimum of one (1) 2.5 x 6' color printed standing banner, branded with Venue Owner's unique code described in Subsection 1.5, to be displayed within Venue Owner's lobby in a prominent location. Venue Owner understands that failure to comply and make reasonable promotion and marketing efforts will result in lower revenue share payments to Venue Owner.

6.2 Venue Owner will provide a marketing contact person (s) who will be responsible for interacting with LiveBarn and becoming knowledgeable about the various LiveBarn marketing and promotion initiatives. Upon installation of LiveBarn, Venue Owner will make said contact available for a 30 minute video web session, serving as an orientation into all of the best practices for introducing and promoting LiveBarn. This person will subsequently be responsible for implementing promotion and marketing initiatives to Venue's customers and patrons.

6.3 Venue Owner will place a LiveBarn banner or link on their website with a backlink and embedded demo video where possible. Venue Owner will do the same with any organizations, associations, clubs and affiliates that it owns that use their facility.

6.4 Venue Owner will announce the LiveBarn installation as well as embed any demo video on all of their social media networks. Venue Owner will also like and follow LiveBarn on said social media networks as well as share content when tagged, acknowledging that this will only be used when venue is directly involved with any video shared. Venue Owner will do the same with any organizations, associations, clubs, affiliates that it owns that use their facility.

7 GENERAL

7.1 Any amendment to this Agreement must be in writing and signed by both parties.

7.2 Although LiveBarn will remain liable for its obligations hereunder, LiveBarn shall be permitted to use agents and subcontracts to perform its installation, maintenance and repair obligations hereunder.

7.3 The waiver of a breach of any provision of this Agreement will not operate or be interpreted as a waiver of any other or subsequent breach.

7.4 If any part of this Agreement is held to be invalid or unenforceable, that part will be severed and the rest of the Agreement will remain in force. Headings herein are for reference only.

7.5 LiveBarn hereby represents that it maintains \$5,000,000 of General Liability Insurance, \$2,000,000 in Media Coverage Insurance and \$2,000,000 in Cyber Insurance, and that upon execution of this Agreement Venue Owner will become a Certificate Holder, with its name and location included.

7.6 All notices required under this Agreement must be given in writing and by email to LiveBarn at venuesupport@livebarn.com, fmiller@livebarn.com, ray@livebarn.com, and to Venue Owner at its address listed herein. Either party may change its address from time to time by providing notice of such change to the other party.

7.7 This Agreement describes the entire understanding and agreement of the parties and supersedes all oral and written agreements or understandings between them related to its subject matter.

7.8 This Agreement may be executed in one or more counterparts, each of which will be deemed an original, and all of which taken together will be deemed to be one instrument.

7.9 This Agreement is governed by and will be interpreted under the laws of the Province of Ontario. Any disputes shall be heard in the courts of the city of Toronto.

7.10 Each party shall keep the terms contained herein confidential and neither of its directors, officers, employees, agents or representatives, where applicable, shall disclose the terms contained herein without the express written consent of the other party, unless such disclosure is required by applicable law.

7.11 Venue Owner will not be liable to LiveBarn by reason of inconvenience or annoyance for any damages or lost revenue due to power loss or shortage, mechanical breakdown, structural damage, roof collapse, fire, flood, renovations, improvements, alterations, or closure of the facility by it or any regulatory agency.



VENUE AGREEMENT

7.12 LiveBarn consents to Venue Owner promoting in its marketing materials that LiveBarn supplies it with the LiveBarn installed product.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the date and at the place first above mentioned.

LIVEBARN INC.

Signature: _____
Ray Giroux, COO

Signature: _____

Print Name:

Date:

SCHEDULE A (REQUIRED)

Venue Name and Address:

Finch Arena (1 ice rink)
4 John St, Finch, ON K0C 1K0

We require one point of contact to initiate communication with for each venue. This person will receive a request to complete an online form that gathers information about the venue and points of contact.

Primary Contact - Venue General Manager or Decision Maker:

Name:

Work Number:

Cell Phone:

Email Address:

	The Corporation of the Township of NORTH STORMONT	Report No. REC-09- 2025
	Agenda Date: March 25, 2025 Subject: Request transfer from reserve Attachments: □ 4484-TWNP NSP Furnace-Quote (1)	

1.0 RECOMMENDATION

THAT the Council of the Township of North Stormont approves report 09-2025 from the Director of Parks, Recreation and Facilities to allow for a transfer of \$3,650.00 from the Amalgamated Recreation Township Reserve for the replacement of the HVAC unit at the Avonmore Hall, known as NSP.

2.0 LEGAL DESCRIPTION

3.0 BACKGROUND

The HVAC unit at Avonmore Hall has been out of service for some time. During an investigation into a roof leakage issue, our local contractor noticed a bubbling sound coming from the HVAC unit's venting on the roof. Chenier Mechanical Inc. was contacted immediately as they contractor responsible for all HVAC units in Avonmore.

Upon inspection, the faulty unit was identified. Two tests were performed to assess the state of the furnace, and in both cases, the unit's operational system went into fault mode, triggering a furnace shutdown. This indicated a fault in the second heat exchange component of the furnace, which cannot be repaired and requires a full unit replacement.

It should be noted that there hasn't been a regular maintenance plan in place for the HVAC units, and no inspections or servicing had been conducted in some time. As a result, no one was aware that the unit was out of service. This lack of proactive maintenance contributed to the issue not being identified sooner.

Based on our tracking, we anticipate that another unit will require replacement after this one. However, we will continue to monitor the situation and wait for the next automatic shutdown, which could take a few years depending on usage.

Additionally, I noticed that some of the air filters on the other units have not been replaced since February 2022 and February 2023. This indicates that service and maintenance have been neglected for some time.

As the Director of Facilities, I have now established a maintenance agreement with Chenier Mechanical to ensure a consistent maintenance program is followed, preventing premature equipment failure. It is essential for the longevity of our HVAC systems that regular inspections and maintenance are carried out moving forward. The cost of this maintenance service will be shared in accordance with the ARC agreement for Avonmore.

4.0 POLICY CONSIDERATION

5.0 ANALYSIS

Once this unit is replaced, a maintenance contract will help us maximize the performance of our equipment. This is the fourth unit that has been changed in the Avonmore NSP.

6.0 ENVIRONMENTAL CONSIDERATIONS

7.0 RECOMMENDED CONDITIONS

8.0 ALTERNATIVES

Council could refuse the recommendation and use other funding to sources to cover the new furnace for Avonmore NSP.

FINANCIAL/STAFFING IMPLICATIONS

This item has been approved in the current budget: Yes No N/A

This item is within the approved budgeted amount: Yes No N/A

This item is mandated by the Provincial/Federal Government: Yes No N/A

Prepared By:

Reviewed and submitted by:

Submitted for Council consideration by:



Pierre Thibault



Treasurer
Craig Calder



Craig Calder

**Director of Parks
Recreation & Facilities**

CAO/Clerk

CAO/Clerk



CHENIER

MECHANICAL INC.

HEATING AND COOLING

From	To	Quote Summary
Chenier Mechanical Inc Neil Chenier Mechanical 3365 County Road 14, Finch, Ontario, K0C 1K0 613.346.0067 Neil@cheniermechanical.com	Township of North Stormont C/O Pierre Thibault North Stormont Place 16299 Fairview Drive Avonmore, Ontario K0C 1K0	Quote #4484-TWNP NSP Furnace Date 03/19/2025 Quote Total \$ 4,124.50

Item	Description	Price	Qty	Total
Furnace	Rheem 2 stage propane furnace, 96% efficient, installed as required with horizontal installation kit. Labor and material included with alterations and reconnection of propane line, condensate line, intake and exhaust vents and removal and disposal of existing furnace.	\$ 3,650.00	1	\$ 3,650.00
			Subtotal	\$ 3,650.00
			Tax 13 %	\$ 474.50
			Total	\$ 4,124.50

Your monthly payment is \$84.43
 Rate 12.99% O.A.C.
 Amortization 5 years
 Admin Fee \$41.25

Ask About Financing!
APPROVED PARTNER



This quotation is valid for 30 days. All work done includes our 90-Day, No Hassle 100% Satisfaction Promise. We appreciate the opportunity to earn your business and your referrals. If you have any questions, please contact our office at any time. All invoices due upon receipt. After 30 days invoices will be subject to 2% per month interest charge.

HST# 794835710

	The Corporation of the Township of NORTH STORMONT	Report No. PW-05-2025
	Agenda Date:	March 25, 2025
Subject:	2025 Annual Development Allocation Report	
Attachments:		

1.0 RECOMMENDATION

THAT the Council of the Township of North Stormont receives report 05-2025 from the Public Works Superintendent and approves the 2025 Annual Development Allocation recommendation for the Finch, Crysler, and Moose Creek municipal water and wastewater systems and approves the recommendation to determine the Annual Development Allocation for the year 2025.

2.0 LEGAL DESCRIPTION

3.0 BACKGROUND

Council adopted the Allocation of Water and Wastewater Capacity By-law 97-2024 in December of 2024. The By-law states that the municipality shall, at least annually, determine the available units of water and wastewater capacities. From the available capacities, Council shall determine the annual development allocation.

Township staff completed a detailed review of each system with Township engineers (CIMA+) and engaged, and received comment, for the 2025 review.

	Population (Est. Units*2)	# Connections	# Unconnected Approved Lots	# Uncommitted Lots
Crysler Water	948	474	12	385
Crysler Sewage Lagoon (Incl. Finch)	1404	702	22	580

Finch Water	522	261	10	64
Moose Creek Water	568	284	23	87
Moose Creek Sewage Lagoon	488	244	23	21

In December 2024, significant repairs were finished on the Finch Water system to fix leaks, leading to a reduction of 150 cubic meters in daily consumption. With the implementation of a strong maintenance program, we will be able to provide additional uncommitted water units to the village of Finch.

4.0 POLICY CONSIDERATION

Section 4.3.3.4(2) of the SDG Official Plan states that: "A local municipality may limit the allocation of capacity for any development. Capacity which has been allocated to development may be reallocated where measures are instituted under the Planning Act to de-designate development (examples include an office plan amendment, deeming of subdivisions, rezoning)".

5.0 ANALYSIS

6.0 ENVIRONMENTAL CONSIDERATIONS

7.0 RECOMMENDED CONDITIONS

THAT the Council of the Township of North Stormont approve the allocation suggested for each system.

8.0 ALTERNATIVES

THAT Council establish other allocation approved for each village.

FINANCIAL/STAFFING IMPLICATIONS

This item has been approved in the current budget: Yes No N/A
This item is within the approved budgeted amount: Yes No N/A
This item is mandated by the Provincial/Federal Government: Yes No N/A

Prepared By: **Reviewed and submitted by:** **Submitted for Council consideration by:**



**Public Works
Administrative
Assistant**

**Bethany MacDonald
Public Works
Administrative
Assistant**



**Blake Henderson
Roads Superintendant**



**Craig Calder
CAO/Clerk**

	The Corporation of the Township of NORTH STORMONT	Report No. FIN-03-2025
	Agenda Date: March 25, 2025	
Subject: Fourth Quarter Variance Report 2024		
Attachments: □ Q4 Budget Variance Report (1)		

1.0 RECOMMENDATION

THAT the Council of the Township of North Stormont accepts report FIN 03-2025 regarding the fourth quarter variance report ending December 31, 2024 for information purposes only.

2.0 LEGAL DESCRIPTION

N/A

3.0 BACKGROUND

Senior management reviews variance reports on a monthly basis so they can monitor their revenues and expenses as compared to the approved budget. Council is then provided a report on a quarterly basis for review and discussion. The fourth quarter variance report was delayed in presentation to allow for invoices that came in for payment in 2025 but actually pertain to 2024. Also, entries needed to be made for such things as amortization. Additional year end entries are still required by our auditors but this should provide a more accurate year end figure than if this were presented in early January.

4.0 POLICY CONSIDERATION

N/A

5.0 ANALYSIS

The unaudited variance report for December 31, 2024 is attached for Council's review. Transfers to and from reserves for year end have been completed except for the water works department. Long term debt proceeds and minor adjustments are still required to be made by the external auditors.

Amortization accounts for \$1.5M which is almost the entire variance. By removing amortization, expenses are actually under budget by 1% which indicates that departments are staying within their expenditure budgets.

High level items are noted below.

GENERAL GOVERNMENT

Revenues

- Municipal Freedom of Information (1-3-1055-0455) at 1108% is due to a very large information request.
- Revenue Fees for Transfer to Taxes (1-3-1055-0595) at 119% was a fee charged for transferring utilities to taxes. This fee has since been eliminated from the Fees and Charges By-law.
- Accounts Receivable Service Charges (1-3-1055-0625) at 467% are fees charged on overdue invoices.
- Bank Interest Earned (1-3-1055-0900) at 131% shows additional earnings of \$41,811 which is simply due to the interest rate.
- Miscellaneous Treasury (1-3-1055-0999) is revenue received for a Payment Out of Court for a 2016 tax sale.
- Long Term Debt Proceeds (1-3-1055-9800) were for the new Township office however the loan has not been finalized and a line of credit was used in 2024 for the renovation costs.
- GFL Revenue (1-3-4010-7420) provided an additional \$24,121 more than budgeted based on actuals.

Expenses

- Mileage (1-4-1050-1500) at 425% is due to conference travel to Kingston, Ottawa, Collingwood.
- Meetings and Conferences (1-4-1050-1700) is under budget by \$3,140 as AMCTO conference for the Treasurer was paid by another Township.
- Materials and Supplies (1-4-1050-2020) at 75% is due to tighter controls on spending.
- Software/Purchased Data (1-4-1050-3500) is at 112% as 5 replacement computers and monitors were purchased under this account and not considered during 2024 budget time. There is now a \$10,000 amount set aside for this every year in capital.
- Hydro (1-4-1050-5820) at 274% (\$17,392) is due to heating both the old and new Township offices.
- Capital (1-4-1050-9000) at 129% (\$303,020) over budget is due to the estimated costs of school renovations at \$1M and the contract coming in at just over \$1.4M.
- PP&P Livestock Loss (1-4-2175-2550) at 718% is due to higher than anticipated losses. This is offset with revenues received from OMAFRA in 1-3-2175-0460. One fee was received in 2025 so the full amount is not offset in 2024.

FIRE DEPARTMENT

Revenues

- Donations unbudgeted but received (1-3-2000-0551) at \$19,950 was used for Materials and Equipment (1-4-2000-2020), Small Tools (1-4-2000-4100) and Air Management (1-4-2000-4115) which currently show them being overbudget but this revenue offsets these costs.

Expenses

- Fire Permits (1-4-2000-0710) higher than anticipated at 133%.
- Building Maintenance (1-4-2000-5900) at 166% due to overhead door replacement and a snow removal invoice for 2023 received in 2024.

BUILDING DEPARTMENT

Revenues

- Building Permit Revenues (1-3-2150-0710) at 161% (\$81,695) higher than anticipated resulting in no transfer from reserves required (1-4-2150-0990).

Expenses

- Transfer to Reserves (1-4-2150-9900) not budgeted (\$34,374) as it was anticipated that funds would be required from reserves. This is a good news story.

BYLAW AND ANIMAL CONTROL

Expenses

- PP&P Dog Control (1-4-2160-2020, 1-4-2160-5100, 1-4-2160-5120) overall overbudget by \$17,186 due to increased dog control services. Total budget at \$15,000, actuals coming in at \$32,186. New contract is in line with a 3 year history of actual costs.

PUBLIC WORKS

Revenues

- Provincial Grant (1-3-3000-0482) \$10,000 received from COVID Stream Intake (possibly a holdback).
- Transfer From Reserves (1-3-3000-0990) unbudgeted \$63,866 used from Canada Community Building Fund (CCBF formerly Gas Tax) reserve to offset actual expenses.
- Right of Way Permits (1-3-3000-3012), Oversize/Overweight Permits (1-3-3000-3016) and Municipal Consent (1-3-3000-3017) initiated during 2024 and not budgeted resulted in \$18,950 in revenues.

Expenses

- Regular part time wages (1-4-3000-1010) at 211% offset by underspent full time wages due to workers on disability and/or sick leave.
- D5 Gravel resurfacing (1-4-3045-7500) over slightly due to required quantities slightly higher.
- Misc Overhead/Telephone (1-4-3081-2100) at 187% due to actual usage.

WASTE MANAGEMENT

Revenues

- Garbage Revenue (1-3-4150-0630) at 245% reflects increased garbage tags purchased.

Expenses

- Regular wages (1-4-4150-1000) at 86% offset with overtime and sick pay due to workers on sick leave or disability.

ARENA

Revenues

- Arena rentals (1-3-7100-070) at 145% (\$95,934) due to increased bookings but this also leads to an increase in hydro costs (1-4-7100-5820) at 109% due to the increased ice time.

PLANNING AND DEVELOPMENT

Revenues

- Provincial Drain Grant (1-3-1650-5200) and Billings to Landowners (1-3-1650-7105) not yet recorded. This is a year end audit entry.
- All other revenues in this area are higher than anticipated due to increased requests for severances, minor variances, site plan and zoning amendment fees.

Expenses

- Mileage (1-4-8000-1500) at 357% includes mileage for the Jr. Planner and Economic Development Officer (EDO). EDO mileage was not budgeted.
- Training Courses/Seminars (1-4-8000-1600) at 326% includes EDO attending Ontario Eastern Municipal Conference (OEMC) which was not originally budgeted.

RECREATION

Revenues

- Trillium grant (1-3-7000-0406) not budgeted for (\$100,000) but approved for Vollrath Park project.
- Summer Student grants (1-3-7000-0457) at 212% as agreement was amended to provide 10 versus 5 students.
- Libraries Rental Revenues (1-3-7150-0720) at 141% as both libraries rent were recorded here but \$10,000 was budgeted under the Arena library (1-3-

7100-0722).

Expenses

- Regular wages (1-4-7010-1000) under budget at 69% and Part Time Wages (1-4-7010-1010) at 205% due to the hiring date of the full time Director.
- Building Maintenance (1-4-7050-5900) not budgeted but \$11,925 spent. The building is aging and needed water leak, furnace and septic repairs.
- Moose Creek Snow Removal (1-4-7070-7000) at 212% due to being billed late for 2023. This number reflects 2 years of charges.
- Transfer to Reserves (1-4-7070-9900) at 160% due to fence not being built so an additional \$6,000 was put to reserves for future use.
- Finch Capital (1-4-7090-9000) at 1330% due to grant funding (Trillium) being approved and not budgeted. \$100,000 received in 2024 with the balance to come in 2025.

WATERWORKS

Crysler, Finch and Moose Creek water works systems (water and sewer) are all self sustaining budgets where the users of the systems pay for it. These revenues and expenditures have no impact on the tax base.

6.0 ENVIRONMENTAL CONSIDERATIONS

N/A

7.0 RECOMMENDED CONDITIONS

N/A

8.0 ALTERNATIVES

N/A

FINANCIAL/STAFFING IMPLICATIONS

This item has been approved in the current budget: Yes No N/A

This item is within the approved budgeted amount: Yes No N/A

This item is mandated by the Provincial/Federal Government: Yes No N/A

Prepared By:

Reviewed and submitted by:

Submitted for Council consideration by:



Treasurer



Treasurer



Craig Calder
CAO/Clerk



TOWNSHIP OF
**NORTH
STORMONT** 
A good place to grow

Fourth Quarter
Budget Variance Report
As at: December 31st, 2024



Tabled for Council Review on March 25, 2025

**Township of North Stormont
Q4 Budget Summary By Department
At Dec 31, 2024**

Departments	Revenues at Dec 31, 2024	Budgeted Revenues	Expenditures at Dec 31, 2024	Budgeted Expenditures	Actual Variance at Dec 31, 2024	Budgeted Variance (Tax Levy)	% Variance by Department
General Government	(2,754,753)	(3,570,243)	2,964,507	2,619,384	209,755	(950,859)	-22%
Fire Services	(352,508)	(348,265)	1,028,923	1,156,333	676,415	808,068	84%
Building	(216,695)	(196,418)	216,695	196,418	(0)	-	N/A
By-Law and Animal Control	(930)	(2,000)	169,326	154,908	168,396	152,908	110%
Public Works	(2,237,660)	(2,398,699)	5,004,526	4,541,912	2,766,867	2,143,213	129%
Water and Sewer	(1,871,112)	(2,444,895)	2,021,859	2,444,895	150,747		N/A
Waste Management	(209,782)	(171,051)	694,916	627,490	485,134	456,439	106%
Recreational Services	(323,201)	(255,000)	917,460	608,952	594,260	353,952	168%
Planning and Development	(108,891)	(174,052)	264,405	373,872	155,514	199,820	78%
Recreation Associations	(295,182)	(112,825)	771,126	563,495	475,944	450,670	106%
TOTALS	\$ (8,370,712)	\$ (9,673,448)	\$ 14,053,744	\$ 13,287,659	\$ 5,683,032	\$ 3,614,211	157%
Less: Building and Water/Sewer Departments	\$ (2,087,807)	(2,641,313)	2,238,554	2,641,313	150,747	-	N/A
TOTALS - Adjusted	\$ (6,282,906)	\$ (7,032,135)	\$ 11,815,191	\$ 10,646,346	\$ 5,532,285	\$ 3,614,211	153%

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year to Date	Budget	Variance	% Used
GENERAL GOVERNMENT				
Revenue				
1-3-1055-0300 REVENUE-PROVINC CRF-OMPF F	-537,500.00	-537,500.00	0.00	100.00
1-3-1055-0447 AMP ANNUAL PMT WIND COMPAN	-30,000.00	-30,000.00	0.00	100.00
1-3-1055-0455 MUN FREEDOM OF INFORMATION	-1,107.50	-100.00	1,007.50	1107.50
1-3-1055-0458 REV-SOUTH NATION RS-RE-IMBU	-1,354.18	-1,000.00	354.18	135.42
1-3-1055-0523 REV-COUNTIES REIMBUR-CONVE	0.00	-9,150.00	-9,150.00	0.00
1-3-1055-0565 TILE DRAINAGE LOAN INTEREST	-2,383.95	0.00	2,383.95	0.00
1-3-1055-0590 REV DUPLICATE BILL FOR TAXES	-220.00	0.00	220.00	0.00
1-3-1055-0595 REV FEE TRANSFER TO TAXES	-4,170.00	-3,500.00	670.00	119.14
1-3-1055-0600 REVENUE-TAX CERTIFICATES & (-8,650.00	-8,000.00	650.00	108.13
1-3-1055-0605 REV OWNERSHIP CHANGES	-1,700.00	-10,000.00	-8,300.00	17.00
1-3-1055-0620 SERVICE CHARGE - RETURNED F	-714.00	-500.00	214.00	142.80
1-3-1055-0625 ACCOUNTS RECEIVABLE SERVIC	-1,166.84	-250.00	916.84	466.74
1-3-1055-0700 MARRIAGE/LOTTERY LICENCE RE	-4,903.22	-4,000.00	903.22	122.58
1-3-1055-0720 COMMUNICATION TOWER RENT#	-25,166.00	-23,248.00	1,918.00	108.25
1-3-1055-0800 REVENUE-PENALTIES & INTERES	-141,571.82	-135,000.00	6,571.82	104.87
1-3-1055-0900 BANK INTEREST EARNED REVEN	-176,811.10	-135,000.00	41,811.10	130.97
1-3-1055-0930 GG-LAND SALES	-92,322.77	-98,905.00	-6,582.23	93.34
1-3-1055-0990 TRANSFER FROM RESERVE - TRI	-160,000.00	-160,000.00	0.00	100.00
1-3-1055-0999 REVENUE MISC TREASURY	-9,152.94	0.00	9,152.94	0.00
1-3-1055-7760 TREASURY FEES REVENUE	-1,340.00	-5,500.00	-4,160.00	24.36
1-3-1055-7762 REV. DEC. OF OATH/MDS REPOR	-250.00	-300.00	-50.00	83.33
1-3-1055-9800 LTD PROCEEDS - ADMIN	0.00	-880,000.00	-880,000.00	0.00
1-3-1500-0610 LI-TAX-AVONMORE CT-SEWAGE S	-500.00	-500.00	0.00	100.00
1-3-1500-0614 LI-TAX-MUNICIPAL DRAINS-DEBEI	0.00	0.00	0.00	0.00
1-3-1501-1600 GENERAL RAIWAYS ROWs	-14,455.20	-14,520.00	-64.80	99.55
1-3-1501-1700 GENERAL UTILITY ROWs	-332.22	-330.00	2.22	100.67
1-3-1501-8150 NO SUPPORT PILs-RETAINED	-7,215.86	-7,440.00	-224.14	96.99
1-3-1501-8180 NO SUPPORT UTILITY ROWs RET	-1,503.36	-1,500.00	3.36	100.22
1-3-2175-0460 LIVESTOCK INSPECTION	-1,477.03	-500.00	977.03	295.41
1-3-2180-0461 FENCE VIEWER REVENUE	-100.00	-500.00	-400.00	20.00
1-3-2210-7220 REV-RURAL NUMBER SIGNS & PC	-4,564.00	-3,000.00	1,564.00	152.13
1-3-4010-7420 GFL REVENUE	-1,524,120.56	-1,500,000.00	24,120.56	101.61
Revenue Total	-2,754,752.55	-3,570,243.00	-815,490.45	77.16
Expense				
1-4-1000-1020 WAGES - COUNCIL	130,659.60	125,193.00	-5,466.60	104.37
1-4-1000-1051 CPP EXP - COUNCIL	6,517.73	7,449.00	931.27	87.50
1-4-1000-1053 OMERS EXP - COUNCIL	11,409.69	21,267.00	9,857.31	53.65
1-4-1000-1056 HEALTH TAX - COUNCIL	2,472.32	2,441.00	-31.32	101.28
1-4-1000-1500 MILEAGE - COUNCIL	966.00	1,250.00	284.00	77.28
1-4-1000-1700 FUNCTIONS - COUNCIL	14,497.15	23,000.00	8,502.85	63.03
1-4-1000-2020 MATERIALS, SUPP. SERV. - COUN	657.37	1,000.00	342.63	65.74
1-4-1000-2100 CELL PHONE - COUNCIL	1,482.38	0.00	-1,482.38	0.00
1-4-1000-2305 DISCRETIONARY FUNDS - COUNC	0.00	1,000.00	1,000.00	0.00
1-4-1000-5300 INSURANCE - COUNCIL	1,063.80	1,064.00	0.20	99.98
1-4-1005-9900 TRANSFER TO RESERVE - ELECT	7,000.00	7,000.00	0.00	100.00
1-4-1050-1000 WAGES - ADMIN	484,918.30	574,279.00	89,360.70	84.44
1-4-1050-1010 PT WAGES - ADMIN	9,997.97	0.00	-9,997.97	0.00
1-4-1050-1011 SICK PAY - FT - ADMIN	15,939.30	0.00	-15,939.30	0.00
1-4-1050-1012 VACATION - FT - ADMIN	36,653.48	0.00	-36,653.48	0.00
1-4-1050-1014 COMPENSATORY PAY - ADMIN	6,471.90	0.00	-6,471.90	0.00
1-4-1050-1050 CLOTHING & YRS OF SERVICE	1,240.00	1,080.00	-160.00	114.81
1-4-1050-1051 CPP - ADMIN	25,610.90	26,251.00	640.10	97.56
1-4-1050-1052 EMPLOYMENT INS - ADMIN	9,990.20	9,273.00	-717.20	107.73
1-4-1050-1053 OMERS - ADMIN	65,432.14	60,703.00	-4,729.14	107.79

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year To Date	Budget	Variance	% Used
GENERAL GOVERNMENT				
1-4-1050-1056 HEALTH TAX - ADMIN	10,909.56	11,929.00	1,019.44	91.45
1-4-1050-1057 W.S.I.B. - ADMIN	17,657.49	20,054.00	2,396.51	88.05
1-4-1050-1058 MOSEY INSURANCE - ADMIN	46,378.35	47,218.00	839.65	98.22
1-4-1050-1500 MILEAGE - ADMIN	2,123.58	500.00	-1,623.58	424.72
1-4-1050-1600 TRAINING - ADMIN	3,168.07	3,500.00	331.93	90.52
1-4-1050-1700 MEETINGS, CONFERENCES - ADM	4,359.57	7,500.00	3,140.43	58.13
1-4-1050-1750 STAFF FUNCTION	4,041.93	5,000.00	958.07	80.84
1-4-1050-1800 SUBSCRIPTIONS & MEMBERSHIP	7,529.49	6,500.00	-1,029.49	115.84
1-4-1050-1900 RECORDS MANAGEMENT	58,003.24	60,000.00	1,996.76	96.67
1-4-1050-2020 MATERIALS & SUPPLIES - ADMIN	20,218.24	27,000.00	6,781.76	74.88
1-4-1050-2100 TELEPHONE/CELL PHONE/INTERI	6,112.88	5,000.00	-1,112.88	122.26
1-4-1050-2200 POSTAGE & COURIER - ADMIN	5,643.12	6,000.00	356.88	94.05
1-4-1050-2300 ADVERTISING / PROMOTIONS	1,405.24	2,000.00	594.76	70.26
1-4-1050-3500 SOFTWARE/PURCHASED DATA/U	78,232.96	70,000.00	-8,232.96	111.76
1-4-1050-5100 LEASE/Service Contracts - ADMIN	11,126.72	11,000.00	-126.72	101.15
1-4-1050-5300 LIABILITY INSURANCE - ADMIN	35,392.88	24,501.00	-10,891.88	144.45
1-4-1050-5500 CARETAKING - ADMIN	4,514.73	6,000.00	1,485.27	75.25
1-4-1050-5800 HEATING/UNION GAS - ADMIN	1,890.65	5,000.00	3,109.35	37.81
1-4-1050-5820 HYDRO - ADMIN	27,392.11	10,000.00	-17,392.11	273.92
1-4-1050-5900 TWP OFFICE BUILDING & GROUN	7,645.47	9,000.00	1,354.53	84.95
1-4-1050-8200 LEGAL FEES - ADMIN	75,583.67	30,000.00	-45,583.67	251.95
1-4-1050-8230 ADMIN - DRAIN MTCE FEES	0.00	200.00	200.00	0.00
1-4-1050-8250 CONSULTANTS - ADMIN	37,565.46	43,000.00	5,434.54	87.36
1-4-1050-8480 IT SERVICES - ADMIN	407.04	380.00	-27.04	107.12
1-4-1050-9000 CAPITAL - ADMIN	1,343,019.96	1,040,000.00	-303,019.96	129.14
1-4-1050-9900 TRANSFER TO RESERVE - ADMIN	1,000.00	1,000.00	0.00	100.00
1-4-1055-3000 BANK CHARGES - TREAS	6,383.25	4,000.00	-2,383.25	159.58
1-4-1055-3050 CASH ROUNDING - TREAS	9.13	0.00	-9.13	0.00
1-4-1055-3125 WRITE OFFS - TREAS	2,050.24	3,000.00	949.76	68.34
1-4-1055-7850 AMORTIZATION - GEN GOV	17,783.25	0.00	-17,783.25	0.00
1-4-1055-8100 AUDITORS FEES - TREAS	46,300.84	45,000.00	-1,300.84	102.89
1-4-1055-9900 TRANSFER TO RESERVE - TREAS	92,323.00	98,905.00	6,582.00	93.35
1-4-2100-8260 PP&P CONS AUTHORITIES/RAISIN	8,765.10	8,952.00	186.90	97.91
1-4-2100-8270 PP&P CONS AUTHORITIES/SOUTH	48,745.00	48,745.00	0.00	100.00
1-4-2175-2500 PP&P LIVESTOCK VALUER FEES	300.67	500.00	199.33	60.13
1-4-2175-2550 PP&P LIVESTOCK LOSS	3,589.19	500.00	-3,089.19	717.84
1-4-2180-2020 PP&P FENCE VIEWERS FEES/SUF	0.00	500.00	500.00	0.00
1-4-2200-2020 EMERGENCY- MAT SUPPLIES & S	685.23	250.00	-435.23	274.09
1-4-2200-8250 PP&P EMERGENCY PREPAREDNI	0.00	1,000.00	1,000.00	0.00
1-4-2210-2020 RURAL CIVIC NUMBERS & SIGNS	2,722.56	2,000.00	-722.56	136.13
1-4-2300-2020 PP & P ACCESS/DISABILITY SERV	30,602.50	30,000.00	-602.50	102.01
1-4-5030-1300 HEALTH AND SAFETY TRAINING	0.00	1,000.00	1,000.00	0.00
1-4-5030-2020 HEALTH & SAFETY-Materials, suppl	1,529.38	500.00	-1,029.38	305.88
1-4-5200-5500 CEMETERY CARETAKING	3,747.57	4,000.00	252.43	93.69
1-4-6000-3400 DONATIONS & GRANTS	31,120.00	36,000.00	4,880.00	86.44
1-4-6000-3405 DONATIONS - DUNDAS MANOR	20,000.00	20,000.00	0.00	100.00
1-4-8200-0000 TILE DRAINAGE INTEREST PAYMI	3,547.91	0.00	-3,547.91	0.00
Expense Total	2,964,507.46	2,619,384.00	-345,123.46	113.18

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year to Date	Budget	Variance	% Used
FIRE DEPARTMENT				
Revenue				
1-3-2000-0415 REV-FIRE PREVENTION DONATIC	-50.00	0.00	50.00	0.00
1-3-2000-0550 DONATIONS - FIRE DEPT	-260,800.00	-271,000.00	-10,200.00	96.24
1-3-2000-0551 DONATIONS - CRYSLER FIRE ASS	-19,950.00	0.00	19,950.00	0.00
1-3-2000-0610 REV. F.D. ADMINISTRATION FEE	-306.00	0.00	306.00	0.00
1-3-2000-0685 REV F.D. MTO CLAIMS	0.00	-3,000.00	-3,000.00	0.00
1-3-2000-0690 REV F.D. SAFETY PLAN/INCIDENT	-78.00	0.00	78.00	0.00
1-3-2000-0695 REV F.D. INSPECTION FEES	-78.00	-600.00	-522.00	13.00
1-3-2000-0710 REV-FIRE PERMITS	-4,000.00	-3,000.00	1,000.00	133.33
1-3-2000-0810 REV F.D. FINES/BILLINGS	-13,640.00	-15,000.00	-1,360.00	90.93
1-3-2000-0990 TRANSFER FROM RESERVE - FIR	-24,000.00	-24,000.00	0.00	100.00
1-3-2030-0720 REV-AMBULANCE BAY AVONMOF	-29,016.68	-31,665.00	-2,648.32	91.64
1-3-2030-0721 REV-AMBULANCE BAY-MISC CH/	-589.50	0.00	589.50	0.00
Revenue Total	-352,508.18	-348,265.00	4,243.18	101.22
Expense				
1-4-2005-1001 PRINCIPAL PAYMENT TO BUDGE	-65,128.62	0.00	65,128.62	0.00
1-4-2005-3020 LONG TERM DEBT PAYMENTS - F	65,128.62	82,252.00	17,123.38	79.18
1-4-2005-3100 INTEREST EXPENSE - F.D.	39,716.72	53,390.00	13,673.28	74.39
1-4-2000-1000 VOLUNTEERS-WAGES - F.D.	128,501.27	128,544.00	42.73	99.97
1-4-2000-1010 ADMIN WAGES - F.D	95,590.12	93,429.00	-2,161.12	102.31
1-4-2000-1011 SICK PAY - FIRE	712.55	0.00	-712.55	0.00
1-4-2000-1013 VACATION PAY - FIRE DEPT	891.80	0.00	-891.80	0.00
1-4-2000-1030 NFPA TRAINING WAGES - FIRE DI	18,226.20	30,000.00	11,773.80	60.75
1-4-2000-1051 CPP - FIRE DEPT	1,336.58	4,068.00	2,731.42	32.86
1-4-2000-1052 EMPLOYMENT INSURANCE - FIRE	553.56	1,352.00	798.44	40.94
1-4-2000-1053 OMERS - FIRE DEPT	6,238.19	4,894.00	-1,344.19	127.47
1-4-2000-1056 HEALTH TAX - FIRE DEPT	3,978.74	3,840.00	-138.74	103.61
1-4-2000-1057 W.S.I.B. - FIRE DEPT	26,707.21	23,793.00	-2,914.21	112.25
1-4-2000-1058 MOSEY INSURANCE - FIRE	3,245.31	3,032.00	-213.31	107.04
1-4-2000-1060 MEDICAL AND LICENSES - FIRE D	1,522.90	2,500.00	977.10	60.92
1-4-2000-1500 MILEAGE/TRAVEL EXPENSES - FI	121.58	1,900.00	1,778.42	6.40
1-4-2000-1600 TRAINING/COURSES & SEMINARS	18,712.49	20,000.00	1,287.51	93.56
1-4-2000-1620 FIRE PREVENTION - FIRE DEPT	1,416.20	2,000.00	583.80	70.81
1-4-2000-1630 PUBLIC EDUCATION - FIRE DEPT	3,176.33	3,000.00	-176.33	105.88
1-4-2000-1800 MEMBERSHIPS & SUBCRIPTIONS	409.83	500.00	90.17	81.97
1-4-2000-2020 MATERIAL AND SUPPLIES - FIRE I	8,079.73	4,000.00	-4,079.73	201.99
1-4-2000-2050 DISPATCH - FIRE DEPT	54,472.16	54,472.00	-0.16	100.00
1-4-2000-2100 CELL PHONE/INTERNET- FIRE DE	1,648.86	1,500.00	-148.86	109.92
1-4-2000-2110 RADIOS & PAGERS - FIRE DEPT	18,464.99	16,356.00	-2,108.99	112.89
1-4-2000-3500 SOFTWARE/PURCHASED DATA/U	0.00	2,695.00	2,695.00	0.00
1-4-2000-4010 PUMPER MAINTENANCE - FIRE DI	11,298.13	15,000.00	3,701.87	75.32
1-4-2000-4020 TANKER MAINTENANCE - FIRE DE	12,689.20	10,000.00	-2,689.20	126.89
1-4-2000-4030 RESCUE MAINTENANCE - FIRE DI	3,340.95	10,000.00	6,659.05	33.41
1-4-2000-4040 EQUIPMENT MAINTENANCE - FIRI	9,384.99	9,000.00	-384.99	104.28
1-4-2000-4070 SUPPRESSION EQUIPMENT - FIRI	3,667.72	10,000.00	6,332.28	36.68
1-4-2000-4100 SMALL TOOLS & EQUIPMENT - FII	8,466.94	3,000.00	-5,466.94	282.23
1-4-2000-4110 EXTINGUISHING EQUIPMENT - FII	351.08	500.00	148.92	70.22
1-4-2000-4115 AIR TANK REFILLS & TESTING - FI	11,447.85	4,000.00	-7,447.85	286.20
1-4-2000-4120 PERSONAL PROTECTIVE EQUIPM	5,663.22	6,000.00	336.78	94.39
1-4-2000-4125 PPE - MAINTENANCE - FIRE DEPT	7,383.11	8,000.00	616.89	92.29
1-4-2000-4130 UNIFORMS - FIRE DEPT	5,146.09	5,000.00	-146.09	102.92
1-4-2000-4140 MEDICAL SUPPLIES - FIRE DEPT	1,561.57	2,000.00	438.43	78.08
1-4-2000-4500 VEHICLE/EQUIP GAS/DIESEL - FIF	2,941.84	7,500.00	4,558.16	39.22
1-4-2000-5100 LEASES/CONTRACTS - FIRE DEP	2,035.20	0.00	-2,035.20	0.00
1-4-2000-5300 INSURANCE PREMIUMS - FIRE DE	39,095.34	39,096.00	0.66	100.00

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year To Date	Budget	Variance	% Used
FIRE DEPARTMENT				
1-4-2000-5800 HEATING FUEL - FIRE DEPT	9,362.11	9,500.00	137.89	98.55
1-4-2000-5820 HYDRO - FIRE DEPT	8,724.09	8,000.00	-724.09	109.05
1-4-2000-5900 BUILDING MAINTENANCE - FIRE I	18,248.48	11,000.00	-7,248.48	165.90
1-4-2000-8430 AUTO AID ASSISTANCE - FIRE DE	5,076.08	10,000.00	4,923.92	50.76
1-4-2000-9000 CAPITAL EXPENSE - FIRE DEPT	66,066.92	86,220.00	20,153.08	76.63
1-4-2000-9900 TRANSFER TO RESERVE - FIRE	360,000.00	360,000.00	0.00	100.00
1-4-2030-5900 AMBULANCE BAY BLDG MTCE	3,248.90	5,000.00	1,751.10	64.98
Expense Total	1,028,923.13	1,156,333.00	127,409.87	88.98

**TOWNSHIP OF NORTH STORMONT
GL Department Report**



Description	Year to Date	Budget	Variance	% Used
BUILDING DEPARTMENT				
Revenue				
1-3-2150-0710 CBO-BUILDING PERMITS REVENL	-216,694.57	-135,000.00	81,694.57	160.51
1-3-2150-0990 TRANSFER FROM RESERVE - CBI	0.00	-61,418.00	-61,418.00	0.00
Revenue Total	-216,694.57	-196,418.00	20,276.57	110.32
Expense				
1-4-2150-1000 REGULAR WAGES - CBO	117,123.63	132,882.00	15,758.37	88.14
1-4-2150-1011 SICK PAY - CBO	2,471.09	0.00	-2,471.09	0.00
1-4-2150-1012 VACATION PAY FT - CBO	9,110.05	0.00	-9,110.05	0.00
1-4-2150-1050 FT BENEFITS - CBO	650.00	680.00	30.00	95.59
1-4-2150-1051 CPP - CBO	5,653.73	6,104.00	450.27	92.62
1-4-2150-1052 EMPLOYMENT INSURANCE - CBO	2,123.97	2,093.00	-30.97	101.48
1-4-2150-1053 OMERS - CBO	12,255.17	12,427.00	171.83	98.62
1-4-2150-1056 HEALTH TAX - CBO	2,370.74	2,846.00	475.26	83.30
1-4-2150-1057 W.S.I.B. - CBO	4,044.47	4,345.00	300.53	93.08
1-4-2150-1058 MOSEY INSURANCE - CBO	7,527.82	8,485.00	957.18	88.72
1-4-2150-1600 TRAINING,MTG,CONFERENCES -	2,307.90	3,000.00	692.10	76.93
1-4-2150-1800 MEMBERSHIPS & SUBSCRIPTION	705.15	750.00	44.85	94.02
1-4-2150-2020 MATERIALS, SUPPLIES, SERVICE	4,672.84	3,500.00	-1,172.84	133.51
1-4-2150-2100 TELEPHONE/CELLULAR - CBO	671.88	500.00	-171.88	134.38
1-4-2150-4200 EQUIPMENT/VEHICLE MTCE - CBI	1,772.42	3,000.00	1,227.58	59.08
1-4-2150-4500 GASOLINE/DIESEL - CBO	4,803.70	6,000.00	1,196.30	80.06
1-4-2150-5300 VEHICLE INSURANCE	606.00	606.00	0.00	100.00
1-4-2150-8200 LEGAL FEES & ENGINEERING - CI	0.00	5,000.00	5,000.00	0.00
1-4-2150-8250 CONSULTANTS - CBO	3,450.00	4,200.00	750.00	82.14
1-4-2150-9900 TRANSFER TO RESERVE - CBO	34,374.00	0.00	-34,374.00	0.00
Expense Total	216,694.56	196,418.00	-20,276.56	110.32

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year to Date	Budget	Variance	% Used
BY-LAW AND ANIMAL CONTROL				
Revenue				
1-3-2155-0810 BY-LAW ENFORCEMENT & PROPI	0.00	-2,000.00	-2,000.00	0.00
1-3-2160-0700 DOG LICENSE REVENUE	-930.00	0.00	930.00	0.00
Revenue Total	-930.00	-2,000.00	-1,070.00	46.50
Expense				
1-4-2155-1000 WAGES - BY-LAW ENFORCEMENT	85,745.16	87,064.00	1,318.84	98.49
1-4-2155-1011 SICK PAY - BY-LAW ENFORCEMEI	1,939.17	0.00	-1,939.17	0.00
1-4-2155-1013 VACATION PAY - BY-LAW ENFOR	495.38	0.00	-495.38	0.00
1-4-2155-1014 COMPENSATORY PAY - BY-LAW E	1,410.50	0.00	-1,410.50	0.00
1-4-2155-1050 FT BENEFITS - CLOTHING BY-LAV	150.00	150.00	0.00	100.00
1-4-2155-1051 CPP - BY-LAW ENFORCEMENT	5,343.41	5,180.00	-163.41	103.15
1-4-2155-1052 EMPLOYMENT INSURANCE -BY-L	2,002.25	1,445.00	-557.25	138.56
1-4-2155-1053 OMERS - BY-LAW ENFORCEMENT	9,029.20	9,126.00	96.80	98.94
1-4-2155-1056 HEALTH TAX - BY-LAW ENFORCE	1,870.40	1,952.00	81.60	95.82
1-4-2155-1057 W.C.B. - BY-LAW ENFORCEMENT	3,238.95	3,274.00	35.05	98.93
1-4-2155-1058 MOSEY INSURANCE - BY-LAW EN	10,095.81	9,573.00	-522.81	105.46
1-4-2155-1400 CELL PHONE - BY-LAW ENFORCE	671.88	500.00	-171.88	134.38
1-4-2155-1600 TRAINING/COURSES - BY-LAW EN	262.25	1,000.00	737.75	26.23
1-4-2155-2020 MAT SUPPLIES SER - BY-LAW ENI	1,495.81	6,000.00	4,504.19	24.93
1-4-2155-2700 PROPERTY STAND. CLEAN UP CC	127.20	1,000.00	872.80	12.72
1-4-2155-4200 VEHICLE MAINTENANCE - BY-LAV	5,527.58	6,000.00	472.42	92.13
1-4-2155-4500 GAS/DIESEL - BY-LAW ENFORCE	1,992.14	1,900.00	-92.14	104.85
1-4-2155-5300 INSURANCE - BY-LAW ENFORCEN	743.50	744.00	0.50	99.93
1-4-2155-9900 TRANSFER TO RESERVE - BY-LAI	5,000.00	5,000.00	0.00	100.00
1-4-2160-2020 PP&P DOG CONTROL/MAT. SUPP	16,388.29	5,000.00	-11,388.29	327.77
1-4-2160-5100 PP&P DOG CONTROL CONTRACT	7,903.62	0.00	-7,903.62	0.00
1-4-2160-5120 PP&P DOG CONTROL OFFICER	7,893.93	10,000.00	2,106.07	78.94
Expense Total	169,326.43	154,908.00	-14,418.43	109.31

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year to Date	Budget	Variance	% Used
PUBLIC WORKS				
Revenue				
1-3-3000-0408 REV-TREAS-AGGREGATE RESOU	-213,390.26	-345,000.00	-131,609.74	61.85
1-3-3000-0446 REV-TREAS-OCIF FUNDING	-323,440.00	-323,432.00	8.00	100.00
1-3-3000-0447 ANNUAL PMT WIND COMPANY RE	-284,440.73	-284,630.00	-189.27	99.93
1-3-3000-0482 PROVINCIAL GRANT/FUNDING	-10,000.00	0.00	10,000.00	0.00
1-3-3000-0730 ROAD CUT/ ENTRANCE PERMITS	-1,000.00	-2,000.00	-1,000.00	50.00
1-3-3000-0735 CCBF GAS TAX REVENUE	-233,160.22	-252,764.00	-19,603.78	92.24
1-3-3000-0750 EDP - RD USER AGREEMENT REV	-1,036,798.92	-1,113,373.00	-76,574.08	93.12
1-3-3000-0931 DISPOSAL OF CAPITAL ASSETS -	-176.99	-8,000.00	-7,823.01	2.21
1-3-3000-0990 TRANSFER FROM RESERVE - RO.	-63,865.83	0.00	63,865.83	0.00
1-3-3000-3012 RDS - RIGHT OF WAY PERMITS	-10,200.00	0.00	10,200.00	0.00
1-3-3000-3016 RDS - OVERSIZE/OVERWEIGHT P	-750.00	0.00	750.00	0.00
1-3-3000-3017 RDS - MUNICIPAL CONSENT	-8,000.00	0.00	8,000.00	0.00
1-3-3000-7300 RDS SNOW PLOW/SWEEPING	-52,436.58	-44,500.00	7,936.58	117.84
1-3-3000-9900 RDS T/F RESERVES	0.00	-25,000.00	-25,000.00	0.00
Revenue Total	-2,237,659.53	-2,398,699.00	-161,039.47	93.29
Expense				
1-4-3000-1000 REGULAR WAGES FT - RDS	679,224.92	797,718.00	118,493.08	85.15
1-4-3000-1005 OVERTIME WAGES FT - RDS	11,487.57	0.00	-11,487.57	0.00
1-4-3000-1010 REGULAR WAGES PT - RDS	33,340.39	15,819.00	-17,521.39	210.76
1-4-3000-1011 SICK PAY FT - RDS	30,323.72	0.00	-30,323.72	0.00
1-4-3000-1012 VACATION PAY FT - RDS	66,057.26	0.00	-66,057.26	0.00
1-4-3000-1014 COMPENSATORY PAY- RDS	1,466.88	0.00	-1,466.88	0.00
1-4-3000-1050 YEARS OF SERVICE	0.00	30.00	30.00	0.00
1-4-3000-1051 CPP - RDS DEPT	41,518.28	42,730.00	1,211.72	97.16
1-4-3000-1052 EMPLOYMENT INSURANCE - RDS	16,173.24	15,819.00	-354.24	102.24
1-4-3000-1053 OMERS - RDS	56,692.94	78,011.00	21,318.06	72.67
1-4-3000-1056 HEALTH TAX - RDS	15,426.07	16,610.00	1,183.93	92.87
1-4-3000-1057 W.S.I.B. - RDS	40,315.12	28,312.00	-12,003.12	142.40
1-4-3000-1058 MOSEY INSURANCE - RDS DEPT	71,904.51	55,947.00	-15,957.51	128.52
1-4-3000-1059 RRSP EXPENSE - RDS	12,297.74	14,833.00	2,535.26	82.91
1-4-3000-4130 UNIFORMS/WORKWEAR - RDS	4,500.00	5,000.00	500.00	90.00
1-4-3000-9000 CAPITAL - ROADS DEPARTMENT	1,512,738.64	1,615,823.00	103,084.36	93.62
1-4-3005-1001 PRINCIPAL PAYMENT TO BUDGE	-78,316.08	0.00	78,316.08	0.00
1-4-3005-3020 LONG TERM DEBT PAYMENTS - R	78,316.08	78,512.00	195.92	99.75
1-4-3005-3100 INTEREST EXPENSE - RDS	2,977.24	2,782.00	-195.24	107.02
1-4-3020-2020 BRIDGES & CULVERTS-MAT,SUPP	13,491.13	40,000.00	26,508.87	33.73
1-4-3020-4700 BRIDGES & CULVERTS CONTRAC	7,554.39	5,000.00	-2,554.39	151.09
1-4-3020-7500 BRIDGES & CULVERTS GRAVEL -	12,557.60	15,000.00	2,442.40	83.72
1-4-3020-8250 BRIDGES & CULVERTS CONSULT	4.50	0.00	-4.50	0.00
1-4-3021-4700 B1 CONTRACTED SERVICES - RD	23,903.73	20,000.00	-3,903.73	119.52
1-4-3022-2020 B2 Brushing Tree/MATERIALS,SUP	171.97	1,000.00	828.03	17.20
1-4-3022-4700 B2 BRUSHING TREE/CONTRACTE	3,770.21	7,500.00	3,729.79	50.27
1-4-3023-2020 B3 DITCHING/MATERIALS,SUPPL	367.04	1,000.00	632.96	36.70
1-4-3024-2020 B4 CATCH BASINS/MATERIALS,SL	3,807.68	5,000.00	1,192.32	76.15
1-4-3024-4400 B4Catch Basins/Storm Sewers/EQU	0.00	2,000.00	2,000.00	0.00
1-4-3024-4700 B4 CATCH BASINS/CONTRACT SE	0.00	2,000.00	2,000.00	0.00
1-4-3024-7500 B4 CATCH BASINS/GRAVEL - RDS	0.00	2,000.00	2,000.00	0.00
1-4-3026-4700 CONTRACT SERV - LINE PAINTING	0.00	8,000.00	8,000.00	0.00
1-4-3031-2020 C1PATCHING & SPRAY/MATERIAL	3,533.19	10,000.00	6,466.81	35.33
1-4-3031-7450 C1PATCH & SPRAY/ASPHALT,HOT	0.00	3,000.00	3,000.00	0.00
1-4-3032-2020 C2 SWEEP,FLUSH,CLEAN/MAT,SL	0.00	2,000.00	2,000.00	0.00
1-4-3032-4700 C2 SWEEP,FLUSH,CLEAN/CONTR	0.00	10,000.00	10,000.00	0.00
1-4-3033-4700 C3 SHOULDER MTCE/CONTRACT	5,286.44	4,000.00	-1,286.44	132.16
1-4-3033-7450 C3 SHOULD MTCE/ASPHALT,HOT	1,322.88	10,000.00	8,677.12	13.23

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year To Date	Budget	Variance	% Used
PUBLIC WORKS				
1-4-3033-7500 C3 SHOULDER MTCE/GRAVEL - R	0.00	8,000.00	8,000.00	0.00
1-4-3035-2020 SIDEWALKS-MISC,MATERIALS & S	0.00	1,000.00	1,000.00	0.00
1-4-3035-4700 C5 SIDEWALKS CONTRACTED SE	3,036.13	2,000.00	-1,036.13	151.81
1-4-3042-2020 D2 GRADING & SCARIFYING/MAT	4,274.90	9,000.00	4,725.10	47.50
1-4-3043-2020 D3 DUST LAYER & CONTROL/MAT	2,843.21	3,000.00	156.79	94.77
1-4-3043-7600 D3 DUST LAYER & CONTROL/CAL	211,703.39	215,000.00	3,296.61	98.47
1-4-3045-7500 D5 GRAVEL RESURFACING/GRAV	332,126.42	315,000.00	-17,126.42	105.44
1-4-3051-2020 E1-SNOW PLOW & REMOV/MAT,S	67.14	2,000.00	1,932.86	3.36
1-4-3051-4700 E1 SNOW PLOWING & REM CONT	3,379.51	5,000.00	1,620.49	67.59
1-4-3052-6230 E2 SANDING/SALTING/SAND& ST	23,213.49	30,000.00	6,786.51	77.38
1-4-3052-6300 E2 SANDING/SALTING/SALT RDS	78,166.55	50,000.00	-28,166.55	156.33
1-4-3061-2020 F1 SAFETY DEVICE/SIGNS/MAT S	3,738.59	5,000.00	1,261.41	74.77
1-4-3061-4400 F1 SAFETY DEVICES/SIGNS/EQUI	421.82	1,500.00	1,078.18	28.12
1-4-3061-4700 SAFETY/SIGNS CONTRACTED SE	322.16	0.00	-322.16	0.00
1-4-3061-7300 F1 SAFETY DEVICES/SIGNS ROAI	14,208.21	18,500.00	4,291.79	76.80
1-4-3062-4700 F2 RR CROSSING MAINTENANCE	42,854.00	36,000.00	-6,854.00	119.04
1-4-3080-2020 WIDENING-SERVICES - RDS	1,017.60	1,000.00	-17.60	101.76
1-4-3081-1600 MISC OVERHEAD/TRAINING - RDS	878.23	3,000.00	2,121.77	29.27
1-4-3081-1700 MISC.OVERHEAD/MEETINGS & C	2,643.11	3,500.00	856.89	75.52
1-4-3081-1800 MISC OVERHEAD/MEMBERSHIP &	1,763.28	2,500.00	736.72	70.53
1-4-3081-2020 MISC OVERHEAD/MAT,SUPPLIES	3,437.97	5,000.00	1,562.03	68.76
1-4-3081-2100 MISC. OVERHEAD/TELEPHONE/C	7,496.32	4,000.00	-3,496.32	187.41
1-4-3081-2210 MISC OVERHEAD/LEGAL FEES&L	0.00	5,000.00	5,000.00	0.00
1-4-3081-2300 MISC OVERHEAD/ADVERTISING -	138.65	1,000.00	861.35	13.87
1-4-3081-3500 SOFTWARE/DATA UPGRADE/PUR	17,811.02	14,000.00	-3,811.02	127.22
1-4-3081-3600 COMPUTER PURCHASES - RDS	0.00	4,000.00	4,000.00	0.00
1-4-3082-2020 H2 BUILDING & GRNDS/MAT,SUPF	10,096.90	8,000.00	-2,096.90	126.21
1-4-3082-4400 H2 BUILDING & GROUNDS/EQUIP	261.02	2,000.00	1,738.98	13.05
1-4-3082-4700 H2 BUILDING & GRNDS/CONTRAC	10,827.29	7,500.00	-3,327.29	144.36
1-4-3082-5300 H2 BUILDING & GRNDS/INSURAN	72,466.24	72,466.00	-0.24	100.00
1-4-3082-5800 H2 BUILDING & GROUNDS/HEATIN	10,314.60	16,000.00	5,685.40	64.47
1-4-3082-5820 H2 BUILDING & GROUNDS/HYDR	13,676.75	18,000.00	4,323.25	75.98
1-4-3083-2020 H3 SMALL TOOLS & EQUIP/MAT S	1,900.98	4,000.00	2,099.02	47.52
1-4-3083-4000 H3-SMALL TOOLS & EQUIP-REPR:	100.20	1,500.00	1,399.80	6.68
1-4-3085-8230 MUNICIPAL DRAIN ASSESSMENT	1,790.36	5,000.00	3,209.64	35.81
1-4-3300-4000 PU-2018 CHEV/REPAIRS & MAINTI	7,656.67	0.00	-7,656.67	0.00
1-4-3301-4000 PU#1-RD SUPT/REPAIRS & MTNCE	1,069.06	0.00	-1,069.06	0.00
1-4-3302-4000 PU#2-2004-PU-REPAIRS & MTNCE	957.61	0.00	-957.61	0.00
1-4-3304-4000 91 FORD TANDEM-REPAIRS & MT	4,194.63	0.00	-4,194.63	0.00
1-4-3305-4000 TR#2-1987 TAND TRK-REPAIRS &	4,753.64	0.00	-4,753.64	0.00
1-4-3306-4000 TR#3-94 INT TRUCK/REPAIRS & M	20,441.00	0.00	-20,441.00	0.00
1-4-3306-4300 TR#3-94 INTER TRUCK/LICENS & :	3,067.25	0.00	-3,067.25	0.00
1-4-3307-4000 2013 JD 160G EXCAVATOR-R&M -	6,325.27	0.00	-6,325.27	0.00
1-4-3308-4000 TR#5-93 FORD-REPAIRS & MTNCE	4,252.04	0.00	-4,252.04	0.00
1-4-3308-4300 TR#5-1993 FORD-LICEN&SAF CHH	1,917.50	0.00	-1,917.50	0.00
1-4-3309-4000 TR#6- 99- 1 TON/REAIRS & MTNCE	5,785.99	0.00	-5,785.99	0.00
1-4-3309-4300 TR#6-1999-1 TON TRUCK-LIC & S/	651.75	0.00	-651.75	0.00
1-4-3310-4000 TR#7-2000-VOLVO TRUCK-REP-M	2,062.33	0.00	-2,062.33	0.00
1-4-3310-4300 TR#7-2000 VOLVO-LICEN &SAFE C	1,917.50	0.00	-1,917.50	0.00
1-4-3312-4000 GR#2-87 CHAMPION/REPAIRS & M	539.66	0.00	-539.66	0.00
1-4-3313-4000 JD-06-LOADER-REPAIRS & MTNCE	8,410.81	0.00	-8,410.81	0.00
1-4-3314-4000 BH#2-91 CASE-BACKHOE/REPAIR	3,479.96	0.00	-3,479.96	0.00
1-4-3315-4000 EQUIPMENT - RDS	2,609.91	0.00	-2,609.91	0.00
1-4-3316-4000 CASE TRACTOR/REPAIRS & MTN	4,483.18	0.00	-4,483.18	0.00
1-4-3318-4000 ET-EXC TRAILER-REPAIRS & MTN	380.39	0.00	-380.39	0.00
1-4-3319-4000 2003 EXCAV/REPAIRS & MTNCE -	3,044.90	0.00	-3,044.90	0.00

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year To Date	Budget	Variance	% Used	
PUBLIC WORKS					
1-4-3320-4000 TRACKLESS SIDEWALK MACHINE	1,999.12	0.00	-1,999.12	0.00	
1-4-3321-4000 HOT BOX TRAILER/REPAIRS & MT	245.18	0.00	-245.18	0.00	
1-4-3322-4000 NEW 2005 CAT GRADER/REPAIRS	10,480.99	0.00	-10,480.99	0.00	
1-4-3323-4000 SIDEWALK PLOW-REPAIRS & MNT	946.09	0.00	-946.09	0.00	
1-4-3324-4000 SIDEWALK TRAILER-REPAIRS & M	305.28	0.00	-305.28	0.00	
1-4-3325-4000 INTERNAT-2007 SNOWPLOW-REF	4,423.65	0.00	-4,423.65	0.00	
1-4-3325-4300 2007 INTER SNOWPLOW-LIC& SAI	4,629.96	0.00	-4,629.96	0.00	
1-4-3326-4000 2008 FORD SNOWPLOW TRUCK-F	9,404.00	0.00	-9,404.00	0.00	
1-4-3326-4300 2008 FORD SNOWPLOW TRUCK-L	1,917.50	0.00	-1,917.50	0.00	
1-4-3327-4000 2009 NEW HOLLAND TRACT-REF	315.72	0.00	-315.72	0.00	
1-4-3328-4000 BOMA6-PACKER-REPAIRS&MTNC	567.35	0.00	-567.35	0.00	
1-4-3329-4000 2010 INTERNAT SNOWPLOW-REP	4,316.09	0.00	-4,316.09	0.00	
1-4-3329-4300 2010 INTERNAT SNOWPLOW-LIC&	1,841.00	0.00	-1,841.00	0.00	
1-4-3330-4000 2010 JOHN DEERE GRADER-REP/	629.75	0.00	-629.75	0.00	
1-4-3331-4000 2013 INTER SNOW PLOW-R&M - R	15,221.09	0.00	-15,221.09	0.00	
1-4-3331-4300 2013 INT PLOW-LICENS&SAFETY	1,917.50	0.00	-1,917.50	0.00	
1-4-3332-4000 2019 EQUIFAB SALTER	1,414.87	0.00	-1,414.87	0.00	
1-4-3333-4000 AGRIMAXX SNOW PUSHER BLADI	145.01	0.00	-145.01	0.00	
1-4-3334-4000 2021 WHITE CHEV REPAIRS & MA	3,209.21	0.00	-3,209.21	0.00	
1-4-3335-4000 2021 BLUE CHEV REPAIRS & MAI	1,773.40	0.00	-1,773.40	0.00	
1-4-3336-4000 RDS-BRUSHER HEAD	7,447.93	0.00	-7,447.93	0.00	
1-4-3337-4000 RDS-HYDROVAC TRAILER	435.20	0.00	-435.20	0.00	
1-4-3338-4000 RDS 2023 CHEV SILVERADO BLAC	866.01	0.00	-866.01	0.00	
1-4-3339-4000 RDS-SNOWBLOWERS	363.45	0.00	-363.45	0.00	
1-4-3350-4000 PARTS & MISC.-REPAIRS & MNTC	1,271.15	0.00	-1,271.15	0.00	
1-4-3350-4050 PARTS MISC INVENTORY ITEMS -	39,798.21	200,000.00	160,201.79	19.90	Parts/Inventory Items
1-4-3350-4500 ALL VEHICLES-DIESEL - RDS	268,377.06	300,000.00	31,622.94	89.46	Total \$203,885.76
1-4-3370-2020 MISC ITEMS-MAT,SUPPLS,SERVIC	57.11	0.00	-57.11	0.00	Actual
1-4-3390-9900 T/T RESERVES - RDS	220,000.00	220,000.00	0.00	100.00	Variance=101.95%
1-4-3700-5820 STREET LIGHTS-HYDRO	20,525.46	23,000.00	2,474.54	89.24	
1-4-3700-5825 STREET LIGHTS REPAIRS & MAIN	5,527.69	5,000.00	-527.69	110.55	
1-4-3900-7850 AMORTIZATION TRANSPORTATIC	736,961.91	0.00	-736,961.91	0.00	
Expense Total	5,004,526.31	4,541,912.00	-462,614.31	110.19	

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year to Date	Budget	Variance	% Used
WATER AND SEWER DEPARTMENT				
Revenue				
1-3-4100-0611 MOOSE CREEK REV WAT & SEW	-315,344.62	-307,234.00	8,110.62	102.64
1-3-4100-0900 MOOSE CREEK INTEREST	-2,242.93	-3,000.00	-757.07	74.76
1-3-4100-4940 MOOSE CREEK CONNECT FEES	-143,832.80	-100,000.00	43,832.80	143.83
1-3-4105-0482 ICIP FUNDING	-400,624.05	-669,136.00	-268,511.95	59.87
1-3-4105-0612 CRYSLER REV WAT & SEW	-564,160.64	-561,487.00	2,673.64	100.48
1-3-4105-0900 CRYSLER INTEREST	-3,278.94	-4,500.00	-1,221.06	72.87
1-3-4105-4940 CRYSLER CONNECT FEES	-32,240.76	0.00	32,240.76	0.00
1-3-4110-0613 FINCH REV WAT & SEW	-302,601.84	-301,551.00	1,050.84	100.35
1-3-4110-0900 FINCH INTEREST	-2,701.44	-3,000.00	-298.56	90.05
1-3-4110-4940 FINCH CONNECT FEES	-104,083.12	-50,000.00	54,083.12	208.17
1-3-4120-9900 TRANSFER FROM RESERVES - FI	0.00	-444,987.00	-444,987.00	0.00
Revenue Total	-1,871,111.14	-2,444,895.00	-573,783.86	76.53
Expense				
1-4-4000-2100 MC SEWER-TELEPHONE - ENV	602.92	610.00	7.08	98.84
1-4-4000-2200 MC SEWER-POSTAGE - ENV	1,100.00	1,100.00	0.00	100.00
1-4-4000-2230 MC SEWER-ADMIN FEES - ENV	6,500.00	6,500.00	0.00	100.00
1-4-4000-5300 MC SEWER-INSURANCE - ENV	1,456.92	1,457.00	0.08	99.99
1-4-4000-5400 MC SEWER TAXES - ENV	1,385.97	1,500.00	114.03	92.40
1-4-4000-7850 AMORTIZATION MOOSE CREEK S	28,807.31	0.00	-28,807.31	0.00
1-4-4000-8250 MC SEWER - CONSULTANTS	279,168.82	0.00	-279,168.82	0.00
1-4-4000-8300 MC SEWER-OCWA - ENV	80,034.56	75,701.00	-4,333.56	105.72
1-4-4000-9000 MC SEWER-CAPITAL EXPENDITUI	26,816.16	73,500.00	46,683.84	36.48
1-4-4005-2020 CRYSLER SEWER-MAT,SUPPL,SE	0.00	500.00	500.00	0.00
1-4-4005-2200 CRYSLER SEWER-POSTAGE - EN	1,100.00	1,100.00	0.00	100.00
1-4-4005-2230 CRYSLER SEWER-ADMIN FEES - I	6,500.00	6,500.00	0.00	100.00
1-4-4005-5300 CRYSLER SEWER-INSURANCE - E	1,456.92	1,457.00	0.08	99.99
1-4-4005-7850 AMORTIZATION CRYSLER SYSTE	46,895.00	0.00	-46,895.00	0.00
1-4-4005-8300 CRYSLER SEWER-OCWA - ENV	93,032.83	78,468.00	-14,564.83	118.56
1-4-4005-9000 CRYSLER SEWER-CAPITAL EXPE	45,062.87	137,000.00	91,937.13	32.89
1-4-4010-2020 FINCH SEWER-MAT,SUPPL,SERV	0.00	200.00	200.00	0.00
1-4-4010-2100 FINCH SEWER-TELEPHONE - ENV	2,971.16	2,850.00	-121.16	104.25
1-4-4010-2200 FINCH SEWER-POSTAGE - ENV	1,100.00	1,100.00	0.00	100.00
1-4-4010-2230 FINCH SEWER-ADMIN FEES - EN	6,500.00	6,500.00	0.00	100.00
1-4-4010-5300 FINCH SEWER-INSURANCE - ENV	1,456.92	1,457.00	0.08	99.99
1-4-4010-7850 AMORTIZATION FINCH SYSTEM -	29,635.37	0.00	-29,635.37	0.00
1-4-4010-8300 FINCH SEWER-OCWA - ENV	89,074.11	84,830.00	-4,244.11	105.00
1-4-4010-9000 FINCH SEWER-CAPITAL EXPENDI	7,886.02	100,500.00	92,613.98	7.85
1-4-4100-2020 MC WATER-MAT,SUPPLIES,SERV	573.77	2,000.00	1,426.23	28.69
1-4-4100-2100 MC WATER-TELEPHONE - ENV	602.92	610.00	7.08	98.84
1-4-4100-2200 MC WATER-POSTAGE - ENV	1,100.00	1,100.00	0.00	100.00
1-4-4100-2230 MC WATER-ADMIN FEES - ENV	6,500.00	6,500.00	0.00	100.00
1-4-4100-5300 MC WATER-INSURANCE - ENV	1,456.92	1,457.00	0.08	99.99
1-4-4100-5400 MC WATER-TAXES - ENV	6,251.27	6,600.00	348.73	94.72
1-4-4100-8300 MC WATER-OCWA - ENV	131,412.87	124,032.00	-7,380.87	105.95
1-4-4100-9000 MC WATER-CAPITAL EXPENDITUI	427,413.31	401,064.00	-26,349.31	106.57
1-4-4105-2020 CRYSLER WAER-MAT,SUPPL,SEF	254.35	200.00	-54.35	127.18
1-4-4105-2100 CRYSLER WATER-TELEPHONE - I	1,485.58	1,425.00	-60.58	104.25
1-4-4105-2200 CRYSLER WATER-POSTAGE - EN	1,100.00	1,100.00	0.00	100.00
1-4-4105-2230 CRYSLER WATER-ADMIN FEES - I	6,500.00	6,500.00	0.00	100.00
1-4-4105-3175 CRYSLER WATER - REFUNDS - EI	2,217.55	0.00	-2,217.55	0.00
1-4-4105-5300 CRYSLER WATER-INSURANCE - E	1,456.92	1,457.00	0.08	99.99
1-4-4105-5400 CRYSLER WATER-TAXES - ENV	490.20	500.00	9.80	98.04
1-4-4105-8300 CRYSLER WATER-OCWA - ENV	119,368.08	119,567.00	198.92	99.83
1-4-4105-9000 CRYSLER WATER-CAPITAL EXPE	120,869.50	211,646.00	90,776.50	57.11

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year To Date	Budget	Variance	% Used
WATER AND SEWER DEPARTMENT				
1-4-4110-2100 FINCH WATER-TELEPHONE - ENV	3,230.23	2,850.00	-380.23	113.34
1-4-4110-2200 FINCH WATER-POSTAGE - ENV	1,100.00	1,100.00	0.00	100.00
1-4-4110-2230 FINCH WATER-ADMIN FEES - ENV	6,500.00	6,500.00	0.00	100.00
1-4-4110-5300 FINCH WATER-INSURANCE - ENV	1,456.92	1,457.00	0.08	99.99
1-4-4110-5400 FINCH WATER-TAXES - ENV	3,734.85	4,000.00	265.15	93.37
1-4-4110-5900 FINCH WATER-BUILDING MAINTENANCE	880.57	0.00	-880.57	0.00
1-4-4110-8000 FINCH WATER MAINTENANCE/PROFESSIONAL	2,093.71	0.00	-2,093.71	0.00
1-4-4110-8300 FINCH WATER OCWA - ENV	153,934.01	122,886.00	-31,048.01	125.27
1-4-4110-9000 FINCH WATER-CAPITAL EXPENDITURES	91,574.40	346,580.00	255,005.60	26.42
1-4-4120-7150 AMP UPDATE	0.00	5,000.00	5,000.00	0.00
1-4-4120-8300 SMALL DRINKING SYSTEMS - OPERATIONAL	15,871.13	33,000.00	17,128.87	48.09
1-4-4120-8301 SMALL SYSTEM SEWAGE	0.00	1,200.00	1,200.00	0.00
1-4-4120-8320 ONT DRINKING WATER REG-ENGINE	1,282.18	0.00	-1,282.18	0.00
1-4-4120-9000 CAPITAL EXPENDITURES - ENVIRONMENTAL	152,603.85	154,834.00	2,230.15	98.56
1-4-4120-9900 TRANSFER TO RESERVE - GENERAL	0.00	296,900.00	296,900.00	0.00
Expense Total	2,021,858.95	2,444,895.00	423,036.05	82.70

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year to Date	Budget	Variance	% Used
WASTE MANAGEMENT				
Revenue				
1-3-4030-7410 REVENUE-HOUSEHOLD HAZARDI	0.00	-7,000.00	-7,000.00	0.00
1-3-4150-0630 ENV-GARBAGE REVENUE	-26,917.50	-11,000.00	15,917.50	244.70
1-3-4150-0635 GARB&RECYCLING PLAN PROGR	-3,845.42	0.00	3,845.42	0.00
1-3-4250-0407 WASTE DIVERSION PROGRAM	-119,401.50	-118,051.00	1,350.50	101.14
1-3-4250-0640 RECYCLING REVENUE CORNWAL	-59,617.65	-35,000.00	24,617.65	170.34
Revenue Total	-209,782.07	-171,051.00	38,731.07	122.64
Expense				
1-4-4150-1000 WASTE & RECYCLE REGULAR W/	105,727.69	122,831.00	17,103.31	86.08
1-4-4150-1005 WASTE & RECYCLE OVERTIME F	4,685.57	0.00	-4,685.57	0.00
1-4-4150-1011 WASTE & RECYCLE SICK PAY FT	3,181.80	0.00	-3,181.80	0.00
1-4-4150-1012 WASTE & RECYCLE VACATION P/	1,942.31	0.00	-1,942.31	0.00
1-4-4150-1050 WASTE & RECYCLE FT BENEFITS	1,000.00	1,000.00	0.00	100.00
1-4-4150-1051 WASTE & RECYCLE CPP - ENV	6,753.48	7,308.00	554.52	92.41
1-4-4150-1052 WASTE & RECYCLE EMP INSURAI	2,757.28	2,039.00	-718.28	135.23
1-4-4150-1053 WASTE & RECYCLE OMERS - ENV	9,850.55	10,887.00	1,036.45	90.48
1-4-4150-1056 WASTE & RECYCLE HEALTH TAX	2,339.60	2,395.00	55.40	97.69
1-4-4150-1057 WASTE & RECYCLE W.S.I.B. - ENV	3,996.49	4,017.00	20.51	99.49
1-4-4150-1058 WASTE & RECYCLE MOSEY INSU	10,236.78	9,645.00	-591.78	106.14
1-4-4150-2020 ENV - WASTE-MAT,SUPPLIES & SI	970.00	0.00	-970.00	0.00
1-4-4150-3300 GARBAGE COLLECTION CHARGE	139,611.32	130,000.00	-9,611.32	107.39
1-4-4150-4000 WASTE-REPAIRS & MAINTENANC	20,520.90	25,000.00	4,479.10	82.08
1-4-4150-4300 WASTE-LICENSES - ENV	1,691.25	1,700.00	8.75	99.49
1-4-4160-4000 WASTE&RECY-SPARE TRUCK-RE	2,410.09	10,000.00	7,589.91	24.10
1-4-4160-4300 WATER&RECYC-SPARE TRUCK-L	3,099.31	1,700.00	-1,399.31	182.31
1-4-4200-8250 LANDFILL SITE-CONSULTANTS - E	31,667.26	30,000.00	-1,667.26	105.56
1-4-4250-1300 RECYCLING-HAZARDOUS WASTE	309.50	17,000.00	16,690.50	1.82
1-4-4250-2020 RECYC-MATERIAL,SUPPLIE&SER	12.20	0.00	-12.20	0.00
1-4-4250-2300 RECYCLING ADVERTISING - ENV	0.00	5,000.00	5,000.00	0.00
1-4-4250-3300 RECYCLING PROCESSING CORN'	138,283.44	136,000.00	-2,283.44	101.68
1-4-4250-4000 RECYCLING-REPAIRS & MAINTEN	13,238.55	10,000.00	-3,238.55	132.39
1-4-4250-7850 AMORTIZATION ENVIRONMENT	178,979.38	0.00	-178,979.38	0.00
1-4-4300-0000 GARBAGE TRUCK - DEBT PAYMEI	89,316.43	89,637.00	320.57	99.64
1-4-4300-1001 GARBAGE TRUCK PRINCIPAL PM	-89,316.43	0.00	89,316.43	0.00
1-4-4300-3100 GARBAGE TRUCK INTEREST EXP	11,651.49	11,331.00	-320.49	102.83
Expense Total	694,916.24	627,490.00	-67,426.24	110.75

**TOWNSHIP OF NORTH STORMONT
GL Department Report**



Description	Year to Date	Budget	Variance	% Used
RECREATIONAL SERVICES - ARENA				
Revenue				
1-3-7100-0483 FEDERAL GRANT - ARENA	-5,750.00	-30,000.00	-24,250.00	19.17
1-3-7100-0720 ARENA RENTALS REVENUE	-310,934.07	-215,000.00	95,934.07	144.62
1-3-7100-0722 ARENA - LIBRARY RENT	0.00	-10,000.00	-10,000.00	0.00
1-3-7100-0723 ARENA - CANTEEN REVENUE	-2,716.50	0.00	2,716.50	0.00
1-3-7100-0725 SPONSOR/ADVERTISING	-3,800.00	0.00	3,800.00	0.00
Revenue Total	-323,200.57	-255,000.00	68,200.57	126.75
Expense				
1-4-7100-1000 ARENA REGULAR WAGES FT - RE	138,871.84	145,668.00	6,796.16	95.33
1-4-7100-1005 ARENA OVERTIME FT - REC	4,160.35	0.00	-4,160.35	0.00
1-4-7100-1012 ARENA VACATION PAY FT - REC	12,433.74	0.00	-12,433.74	0.00
1-4-7100-1050 ARENA FT BENEFITS - REC	725.00	875.00	150.00	82.86
1-4-7100-1051 ARENA CPP - REC	8,286.41	8,233.00	-53.41	100.65
1-4-7100-1052 ARENA EMPLOYMENT INSURANC	3,312.60	2,687.00	-625.60	123.28
1-4-7100-1053 ARENA OMERS - REC	11,229.23	11,666.00	436.77	96.26
1-4-7100-1056 ARENA HEALTH TAX - REC	2,984.55	2,841.00	-143.55	105.05
1-4-7100-1057 ARENA-W.S.I.B. - REC	5,111.84	4,763.00	-348.84	107.32
1-4-7100-1058 ARENA MOSEY INSURANCE - REC	6,937.63	6,501.00	-436.63	106.72
1-4-7100-1600 ARENA-TRAINING - REC	990.00	2,000.00	1,010.00	49.50
1-4-7100-1800 ARENA-MEMBERSHIPS & SUBSCF	190.00	525.00	335.00	36.19
1-4-7100-2020 ARENA-MATERIAL,SUPPL & SERV	20,456.25	23,800.00	3,343.75	85.95
1-4-7100-2100 PHONE / INTERNET	1,165.43	1,700.00	534.57	68.55
1-4-7100-2300 ARENA-ADVERTISING - REC	73.12	0.00	-73.12	0.00
1-4-7100-3020 LONG TERM DEBT PAYMENTS - A	72,551.97	72,552.00	0.03	100.00
1-4-7100-3100 ARENA INTEREST EXPENSE - REI	29,939.51	32,300.00	2,360.49	92.69
1-4-7100-3251 ARENA TRANS PRINCIPAL PMT TI	-72,551.97	0.00	72,551.97	0.00
1-4-7100-4000 ARENA-REPAIRS & MAINTENANCI	14,307.36	17,000.00	2,692.64	84.16
1-4-7100-4100 ARENA-SMALL TOOLS/EQUIPMEN	1,169.49	0.00	-1,169.49	0.00
1-4-7100-4500 ARENA-GASOLINE/DIESEL - REC	0.00	3,500.00	3,500.00	0.00
1-4-7100-5000 ARENA - INSPECTIONS - REC	3,145.11	4,550.00	1,404.89	69.12
1-4-7100-5300 ARENA-INSURANCE - REC	42,790.68	42,791.00	0.32	100.00
1-4-7100-5700 ARENA-SECURITY - REC	944.03	600.00	-344.03	157.34
1-4-7100-5800 ARENA-HEATING/PROPANE/UNIO	11,031.08	18,000.00	6,968.92	61.28
1-4-7100-5820 ARENA-HYDRO - REC	120,109.22	110,000.00	-10,109.22	109.19
1-4-7100-5900 ARENA - BUILDING MAINTENANCI	17,299.61	16,400.00	-899.61	105.49
1-4-7100-7850 AMORTIZATION - REC	378,174.75	0.00	-378,174.75	0.00
1-4-7100-9000 CAPITAL EXPENDITURE - REC	31,621.50	30,000.00	-1,621.50	105.41
1-4-7100-9900 TRANSFER TO RESERVE - ARENA/	50,000.00	50,000.00	0.00	100.00
Expense Total	917,460.33	608,952.00	-308,508.33	150.66

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year to Date	Budget	Variance	% Used
PLANNING AND DEVELOPMENT				
Revenue				
1-3-1055-0405 REV-TREAS-DRAINAGE SUPT GR.	-49,541.20	-50,752.00	-1,210.80	97.61
1-3-1650-5200 DRAIN-PROVINCIAL DRAIN GRAN	0.00	-15,000.00	-15,000.00	0.00
1-3-1650-7105 DRAIN-BILLINGS TO LANDOWNEF	0.00	-70,000.00	-70,000.00	0.00
1-3-1700-7813 PARKLAND SEVERANCE FEES	-12,000.00	-10,000.00	2,000.00	120.00
1-3-1700-7815 REVENUE-FEES-SEVERANCES	-13,800.00	-12,000.00	1,800.00	115.00
1-3-8000-0650 PLANNING FEES	-2,500.00	-1,000.00	1,500.00	250.00
1-3-8000-0655 MINOR VARIANCE FEES	-9,900.00	-3,300.00	6,600.00	300.00
1-3-8000-0660 OPA & SITE PLAN FEES	-6,000.00	-2,000.00	4,000.00	300.00
1-3-8000-0665 ZONING AMENDMENT FEES	-15,150.00	-10,000.00	5,150.00	151.50
Revenue Total	-108,891.20	-174,052.00	-65,160.80	62.56
Expense				
1-4-8000-1000 WAGES - PLANNING&DEVELOPMI	86,153.52	93,939.00	7,785.48	91.71
1-4-8000-1011 SICK PAY - PLANNING&DEVELOPI	2,519.60	0.00	-2,519.60	0.00
1-4-8000-1012 VACATION - PLANNING&DEVELOF	2,268.00	0.00	-2,268.00	0.00
1-4-8000-1050 FT BENEFITS - PLANNING&DEVEL	150.00	300.00	150.00	50.00
1-4-8000-1051 CPP - PLANNING&DEVELOPMENT	5,002.50	5,589.00	586.50	89.51
1-4-8000-1052 EMPLOYMENT INSURANCE - PLA	2,032.48	1,559.00	-473.48	130.37
1-4-8000-1053 OMERS - PLANNING&DEVELOPMI	7,884.70	6,816.00	-1,068.70	115.68
1-4-8000-1056 HEALTH TAX - PLANNING&DEVEL	1,724.56	1,832.00	107.44	94.14
1-4-8000-1057 WCB - PLANNING&DEVELOPMEN	2,964.68	3,072.00	107.32	96.51
1-4-8000-1058 MOSEY INSURANCE - PLANNING&	6,336.33	9,315.00	2,978.67	68.02
1-4-8000-1500 MILEAGE - PLANNING&DEVELOPI	1,783.59	500.00	-1,283.59	356.72
1-4-8000-1600 TRAINING/COURSE&SEMINAR - P	3,257.92	1,000.00	-2,257.92	325.79
1-4-8000-1700 MEETING&CONFERENCE - PLANN	535.10	0.00	-535.10	0.00
1-4-8000-1800 MEMBERSHIP&SUBSCRIPT - PLA	0.00	900.00	900.00	0.00
1-4-8000-2020 MAT SUPPLIES - PLANNING&DEVI	263.69	0.00	-263.69	0.00
1-4-8000-2100 TELEPHONE EXPENSES - PLANNI	499.71	0.00	-499.71	0.00
1-4-8000-2300 ADVERTISING - PLANNING&DEVE	125.93	0.00	-125.93	0.00
1-4-8000-3450 CIP GRANT - PLANNING&DEVELO	0.00	15,000.00	15,000.00	0.00
1-4-8000-4700 CONTRACTED SERVICES - PLANN	25,786.50	35,000.00	9,213.50	73.68
1-4-8000-9900 TRANSFER TO RESERVE - PARKL	12,000.00	10,000.00	-2,000.00	120.00
1-4-8125-2020 TWP COMMITTEE-EXPENSES - PL	1,900.00	1,800.00	-100.00	105.56
1-4-8150-7503 MUNICIPAL DRAIN WRITE-OFF - P	2,133.67	2,500.00	366.33	85.35
1-4-8150-7700 MUNICIPAL DRN MAINTENANCE -	0.00	85,000.00	85,000.00	0.00
1-4-8150-8240 MUNICIPAL DRAINS-ELIGIBLE - PI	99,082.48	99,750.00	667.52	99.33
Expense Total	264,404.96	373,872.00	109,467.04	70.72

**TOWNSHIP OF NORTH STORMONT
GL Department Report**



Description	Year to Date	Budget	Variance	% Used
RECREATION ASSOCIATIONS				
Revenue				
1-3-7000-0406 REVENUE-PROV-TRILLIUM-GRAN	-100,000.00	0.00	100,000.00	0.00
1-3-7000-0454 REVENUE-CANADA STUDENT GR	-23,184.00	-26,525.00	-3,341.00	87.40
1-3-7000-0457 SUMMER STUDENT SALARY RE-II	-51,179.55	-26,525.00	24,654.55	192.95
1-3-7050-0720 MONKLAND POST OFFICE RENT	-4,836.01	-2,280.00	2,556.01	212.11
1-3-7060-0550 DONATIONS - AVONMORE REC	0.00	0.00	0.00	0.00
1-3-7060-0720 REV-AVONMORE-MEDICAL CENTI	-14,994.72	-14,995.00	-0.28	100.00
1-3-7070-0550 DONATIONS - MOOSE CREEK REI	-13,894.82	0.00	13,894.82	0.00
1-3-7080-0420 INSURANCE CLAIMS - CRYSLER F	-4,536.50	0.00	4,536.50	0.00
1-3-7090-0990 TRANSFER FROM RESERVE - FIN	-47,250.00	0.00	47,250.00	0.00
1-3-7090-9900 TRANSFER FROM RESERVES - FI	0.00	-17,500.00	-17,500.00	0.00
1-3-7150-0720 LIBRARIES RENTALS REVENUE	-35,306.26	-25,000.00	10,306.26	141.23
Revenue Total	-295,181.86	-112,825.00	182,356.86	261.63
Expense				
1-4-5900-5830 TAXES/UTILITIES - TWP BLDG	13,361.69	14,000.00	638.31	95.44
1-4-5900-5900 MTCE & REPAIRS - TWP BLDG	35.62	0.00	-35.62	0.00
1-4-5900-7000 SNOW REMOVAL/GRASS CUTTING	450.27	500.00	49.73	90.05
1-4-7000-1800 Memberships & Subscriptions	249.31	0.00	-249.31	0.00
1-4-7000-3250 IO LOAN PAYMENTS - REC	55.78	55.00	-0.78	101.42
1-4-7000-3251 TRANS PRINCIPAL PMT TO BUDG	-55.78	0.00	55.78	0.00
1-4-7000-5300 GEN NORTH STORMONT REC-INS	59,334.24	57,171.00	-2,163.24	103.78
1-4-7000-8250 CONSULTANT - REC	5,000.00	0.00	-5,000.00	0.00
1-4-7000-8450 PLAYGROUND MAINTENANCE	2,506.42	4,000.00	1,493.58	62.66
1-4-7010-1000 REGULAR WAGES - REC	32,985.12	47,568.00	14,582.88	69.34
1-4-7010-1010 PT WAGES - REC / EDO	20,536.26	10,000.00	-10,536.26	205.36
1-4-7010-1011 SICK PAY - REC	1,510.75	0.00	-1,510.75	0.00
1-4-7010-1012 VACATION PAY - REC	2,485.80	400.00	-2,085.80	621.45
1-4-7010-1051 CPP - REC	2,865.32	3,449.00	583.68	83.08
1-4-7010-1052 EMPLOYMENT INSURANCE - REC	1,184.56	962.00	-222.56	123.14
1-4-7010-1053 OMERS - REC	4,968.26	4,216.00	-752.26	117.84
1-4-7010-1056 HEALTH TAX - REC	987.65	1,130.00	142.35	87.40
1-4-7010-1057 W.S.I.B. - REC	1,737.08	1,896.00	158.92	91.62
1-4-7010-1058 MOSEY INSURANCE EXPENSE - F	3,053.97	3,155.00	101.03	96.80
1-4-7010-1500 MILEAGE - REC	1,020.24	0.00	-1,020.24	0.00
1-4-7010-1600 TRAINING - REC COORDINATOR	60.00	0.00	-60.00	0.00
1-4-7010-2020 MAT AND SUPPLIES REC EDO	357.08	0.00	-357.08	0.00
1-4-7010-2100 CELL PHONE - REC	1,148.16	0.00	-1,148.16	0.00
1-4-7030-5820 BERWICK BALL PARK HYDRO - R	705.55	900.00	194.45	78.39
1-4-7030-9000 BERWICK CAPITAL EXP	316.22	11,600.00	11,283.78	2.73
1-4-7030-9900 TRANSFER TO RESERES BERWIC	11,600.00	0.00	-11,600.00	0.00
1-4-7050-2020 MONKLAND INTERNET - REC	321.57	120.00	-201.57	267.98
1-4-7050-5800 MONKLAND HEATING - REC	4,123.06	4,500.00	376.94	91.62
1-4-7050-5820 MONKLAND HYDRO - REC	2,548.90	1,600.00	-948.90	159.31
1-4-7050-5900 MONKLAND BUILDING MAINTENA	11,925.88	0.00	-11,925.88	0.00
1-4-7050-7000 MONKLAND - SNOW REMOVAL - F	2,900.00	1,500.00	-1,400.00	193.33
1-4-7060-1010 AVONMORE-SUMMER STUDENT-I	27,361.30	12,240.00	-15,121.30	223.54
1-4-7060-1051 AVONMORE CPP - REC	706.34	0.00	-706.34	0.00
1-4-7060-1052 AVONMORE EMPLOYMENT INSUF	635.88	0.00	-635.88	0.00
1-4-7060-1056 AVONMORE SUMMER STUDENT-I	533.55	0.00	-533.55	0.00
1-4-7060-1057 AVONMORE SUMMER STUDENT-I	935.78	0.00	-935.78	0.00
1-4-7060-2020 AVONMORE INTERNET - REC	240.00	500.00	260.00	48.00
1-4-7060-5800 AVONMORE HEATING - REC	6,948.97	4,500.00	-2,448.97	154.42
1-4-7060-5820 AVONMORE HYDRO - REC	14,297.34	17,000.00	2,702.66	84.10
1-4-7060-5900 AVONMORE BUILDING MAINTENA	3,532.79	2,800.00	-732.79	126.17
1-4-7060-7000 AVONMORE - SNOW REMOVAL - I	2,164.96	3,000.00	835.04	72.17

TOWNSHIP OF NORTH STORMONT
GL Department Report



Description	Year To Date	Budget	Variance	% Used
RECREATION ASSOCIATIONS				
1-4-7060-9000 AVONMORE - CAPITAL - REC	12,950.00	0.00	-12,950.00	0.00
1-4-7060-9900 TRANSFER TO RESERVE - AVONM	10,000.00	10,000.00	0.00	100.00
1-4-7070-1001 PRINCIPAL PAYMENTS - MOOSE C	0.00	23,541.00	23,541.00	0.00
1-4-7070-1010 MOOSE CREEK SUMMER STUDEN	35,849.98	32,440.00	-3,409.98	110.51
1-4-7070-1051 MOOSE CREEK CPP - REC	947.12	0.00	-947.12	0.00
1-4-7070-1052 MOOSE CREEK EMPLOYMENT IN:	833.14	0.00	-833.14	0.00
1-4-7070-1056 MOOSE CREEK SUMMER STUD-H	699.07	0.00	-699.07	0.00
1-4-7070-1057 MOOSE CREEK SUMMER STUDEN	1,226.09	0.00	-1,226.09	0.00
1-4-7070-2020 MOOSE CREEK INTERNET - REC	205.00	0.00	-205.00	0.00
1-4-7070-3100 INTEREST EXPENSE - MOOSE CR	31,116.32	51,452.00	20,335.68	60.48
1-4-7070-3400 MOOSE CREEK - DONATED SUPP	18,238.41	0.00	-18,238.41	0.00
1-4-7070-5800 MOOSE CREEK HEATING - REC	3,770.36	8,500.00	4,729.64	44.36
1-4-7070-5820 MOOSE CREEK HYDRO - REC	20,316.77	15,000.00	-5,316.77	135.45
1-4-7070-5900 M.C. BUILDING MAINTENANCE - R	260.00	0.00	-260.00	0.00
1-4-7070-7000 M.C. SNOW REMOVAL - REC	5,300.00	2,500.00	-2,800.00	212.00
1-4-7070-9000 MOOSE CREEK CAPITAL - REC	98,330.48	96,000.00	-2,330.48	102.43
1-4-7070-9900 TRANSFER TO RESERVE - MOOS	16,000.00	10,000.00	-6,000.00	160.00
1-4-7080-1010 CRYSLER SUMMER STUDENTS - I	9,846.72	8,370.00	-1,476.72	117.64
1-4-7080-1051 CRYSLER CPP - REC	529.81	0.00	-529.81	0.00
1-4-7080-1052 CRYSLER EMPLOYMENT INSURA	228.82	0.00	-228.82	0.00
1-4-7080-1056 CRYSLER STUDENTS HEALTH TA	192.01	0.00	-192.01	0.00
1-4-7080-1057 CRYSLER STUDENTS W.S.I.B. - RI	336.78	0.00	-336.78	0.00
1-4-7080-2020 CRYSLER INTERNET - REC	840.00	840.00	0.00	100.00
1-4-7080-5800 CRYSLER HEATING - REC	4,875.35	9,000.00	4,124.65	54.17
1-4-7080-5820 CRYSLER HYDRO - REC	12,086.49	13,000.00	913.51	92.97
1-4-7080-5900 CRYSLER BUILDING MAINTENAN	22.98	150.00	127.02	15.32
1-4-7080-7000 CRYSLER - SNOW REMOVAL - RE	0.00	5,000.00	5,000.00	0.00
1-4-7080-9000 CRYSLER COMM.CENTRE CAPIT/	2,900.00	50,000.00	47,100.00	5.80
1-4-7090-2020 FINCH INTERNET - REC	240.00	240.00	0.00	100.00
1-4-7090-5820 FINCH HYDRO - REC	1,152.73	1,200.00	47.27	96.06
1-4-7090-5900 FINCH FACILITY MAINTENANCE -	1,377.60	0.00	-1,377.60	0.00
1-4-7090-9000 CAPITAL FINCH REC	232,817.93	17,500.00	-215,317.93	1330.39
Expense Total	771,125.85	563,495.00	-207,630.85	136.85

CELEBRATING 10 YEARS WITH FRIENDS IN WILLIAMSBURG



Whilst the SDG Library Williamsburg Branch has been serving the community for over 45 years, this year marks a significant milestone for the branch as it celebrates its tenth (10th) anniversary at the 12333 County Road 18 location. It was a wonderful opportunity to formally acknowledge the “Friends of Williamsburg Library” group for their instrumental role in advocating for the Williamsburg Library and its value to the community. SDG Library presented the friends group with a special plaque commemorating the event. Guests enjoyed refreshments, trivia and the opportunity to reminisce with friends while enjoying the newly renovated branch.

OLA CONFERENCE

Four (4) SDG Library Board members and three (3) staff attended the Ontario Library Association (OLA) conference in January. The theme of this year’s conference was “Building Bridges”. The attendees listened to keynote speakers, attended information sessions, conversed with vendors at exhibition booths, and networked with other Library staff and Board members. A full list of sessions attended, and feedback can be found in the February Board package.



Rebecca Luck, Director of Library Services (far left) with Board members; Margaret MacDonald, Jim Algire, Lachlan McDonald, and Jo-Anne McCaslin.

MAKERLAB PLAN

The 2025 MakerLab Plan was reviewed and approved by the Board. The plan builds upon the successes of existing programs and sets out objectives that are aligned with the SDG Library’s Strategic Plan.



Key Objectives

To expand and upgrade equipment and resources in the MakerLab.



To increase awareness and utilisation of the MakerLab, to both existing patrons and the wider community through outreach efforts, support materials, and dedicated promotional campaigns such as May-ker month.



To train additional staff in the MakerLab, this will provide uninterrupted service levels and a positive user experience.



TECHNOLOGY PLAN

The 2025 Technology Plan was reviewed and approved by the Board. The goals and objectives set forward within the 2025 Technology Plan are aligned with the SDG Library’s Strategic Plan.



Key Objectives

Invest in growing the Library’s digital collection and online resources utilising reliable, cost-efficient methods whilst ensuring the Library meets the evolving needs of patrons.



Maintain the Library’s IT infrastructure of equipment and software across the branch network, ensuring the Library can provide access to information, resources and current technology for visitors and patrons.



Next Meeting: April 24, 2025 | 5pm at Avonmore Branch

RECEIVED

MAR 07 2025



Banque Alimentaire C.C.S

Casselman - Crysler - St-Albert

C.C.S. Food Bank

P.O. Box 561, Casselman, On

K0A 1M0

613.764.5203

ccsbanque@bellnet.ca

Le 18 février 2025,

ATT: M. Craig Calder
Directeur Général de North Stormont

Objet: Présentation de l'exécutif et demande de dons pour 2025

Bonjour M. Calder,

En 2025, le nombre de clients ne cesse d'augmenter dans notre région. Heureusement que la Banque alimentaire de Casselman – Crysler – St-Albert est là pour desservir les besoins de notre communauté. Pour ce faire, nous sollicitons la générosité de nos donateurs ainsi que l'appui de la Banque alimentaire d'Ottawa. Sans eux, notre mission serait impossible.

Pour le temps des fêtes 2024, nous avons distribués 228 paniers de Noël comparativement à 158 en 2023.

En date du 13 janvier 2025, voici la répartition de nos clients selon la région :

Casselman	Adultes : 745 Enfants : 413
Nation	Adultes : 527 Enfants : 415
North Stormont	Adultes : 164 Enfants : 139
Autres – dépannage	Adultes : 58 Enfants : 74
Itinérants – sans adresse fixe	Adultes : 33 Enfants : 6
Total :	Adultes : 1527 Enfants : 1047

Vos contributions financières seront grandement appréciées pour nous aider à couvrir les frais du loyer pour l'année 2025.

De plus, nous prenons le temps de vous présenter les nouveaux membres de l'exécutif de la Banque alimentaire CCS.

Martine Surprenant – Présidente
Diane Perreault – Présidente sortante
Anne-Marie Beaudry – Vice-présidente
Marc Denis – Trésorier
Nicole Laplante-Nicol – Secrétaire
Lynn Laflèche – Représentante des villages
Carl Lacasse – Représentant des bénévoles et du réapprovisionnement

Vous pouvez nous rejoindre par téléphone, par courriel ou à l'adresse ci-haut.

Encore une fois un gros merci pour votre générosité.



Martine Surprenant
Présidente de la Banque alimentaire CCS



SOUTH NATION
CONSERVATION
DE LA NATION SUD

Memorandum

To: Mayor, Frank Landry, Council, CAO Craig Calder
From: Shahin Zand, Water Resources Engineer, South Nation Conservation
Date: February 28, 2025
RE: Notice of 2025 Public Consultation for New Natural Hazard Maps

South Nation Conservation (SNC) will be hosting public consultation meetings for residents to learn more about new Natural Hazard Mapping for areas along Quaille Creek within the City of Ottawa.

Natural hazard maps are used by municipalities and SNC when updating official plans and zoning schedules, and in reviewing development applications to protect people and property from natural hazards and to guide sustainable development activities.

Development projects within natural hazard areas (like floodplains) require permission from the Conservation Authority before proceeding. SNC updates natural hazard maps on behalf of its partner municipalities when requested.

Residents who wish to learn more can schedule a phone or virtual meeting with SNC on weekdays between March 17th and March 28th.

In person 1-on-1 meeting opportunities can be scheduled during the following:

- Wednesday March 26th, 2025, 5 PM to 7 PM at the Greely Community Centre - Hall A. (1448 Meadow Dr, Greely, ON)
- Thursday March 27th, 2025, 9 AM to 4 PM at the SNC Administrative Office (38 Victoria Street, Finch, ON)

Public consultation information, draft maps and 1-on-1 meeting request links can be found at nation.on.ca/consultations.

Should you have any questions, please feel free to contact a member of our team.

Sincerely,



Shahin Zand
 Water Resources Engineer
 South Nation Conservation
szand@nation.on.ca | 1-877-984-2948





SOUTH NATION
CONSERVATION
DE LA NATION SUD

RECEIVED

MAR 07 2025

Mémorandum

Destinataires : Maire Frank Landry, Conseil, DG Craig Calder
De : Shahin Zand, Ingénieur en ressources hydriques, Conservation de la Nation Sud
Date : 28 février 2025
Objet : **Avis de consultation publique en 2025 sur la nouvelle cartographie des risques naturels**

La Conservation de la Nation Sud (CNS) organise des séances d'information publique pour permettre aux résidents d'en savoir plus sur la nouvelle cartographie des plaines inondables et des risques naturels le long du ruisseau Quaille dans la ville d'Ottawa.

L'autorisation de l'Office de protection de la nature est nécessaire pour les initiatives d'aménagement dans les secteurs sujets à des risques naturels (comme les plaines inondables). La CNS met à jour les cartes des risques naturels au nom de ses municipalités partenaires, sur demande.

Les résidents qui souhaitent en savoir plus peuvent planifier des rencontres téléphoniques, virtuelles avec la CNS en semaine, entre le 17 et le 28 mars 2025.

Des opportunités de rencontres individuelles en personne peuvent être programmées dans les cas suivants :

- Mercredi 26 mars 2025, de 17h à 19h au Centre communautaire Greely - Hall A. (1448 Meadow Dr, Greely, ON)
- Jeudi 27 mars, de 9h à 16h au bureau de la CNS (38, rue Victoria, Finch, Ontario)

Vous trouverez plus de renseignements sur la consultation publique, ainsi que des ébauches de cartes et des liens pour solliciter une rencontre individuelle sur la page nation.on.ca/consultations.

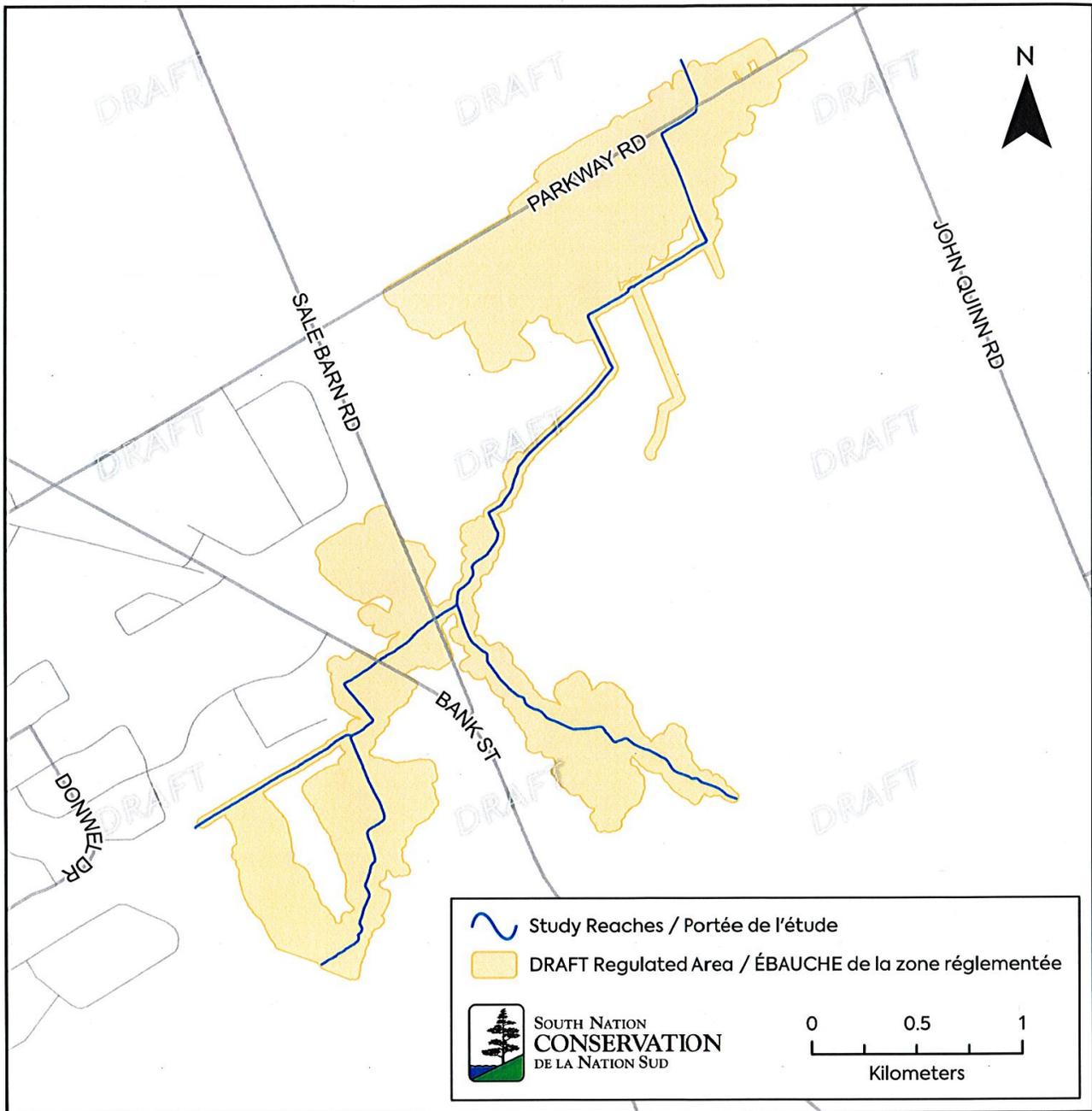
Si vous avez des questions, n'hésitez pas à contacter un membre de notre équipe.

Sincèrement,

Shahin Zand
Ingénieur en ressources hydriques
Conservation de la Nation Sud
szand@nation.on.ca | Tél. : 1-877-984-2948

DRAFT Regulated Area
Quaile Creek

ÉBAUCHE de la zone réglementée
Ruisseau Quaile



This map and the associated information displayed thereon are to be used for general illustrative purposes only, and is not suitable or intended for navigation, legal, engineering or surveying purposes. Although best efforts have been made to create accuracy, due to the complex and extensive nature of the data, all representations and/or information provided herein are approximate and users should consult the primary data and information sources to confirm the accuracy of the map. The Municipality and the South Nation Conservation Authority, their employees and agents, do not guarantee the accuracy of the map, and will not be liable for any claims for damages or loss arising from its use. The user hereby accepts and assumes all inherent risks associated with the use of this map. This map is produced in part with data provided by the Ontario Geographic Data Exchange under License with the Ontario Ministry of Natural Resources and the King's Printer for Ontario, 2025.

Cette carte et les informations associées qui y figurent ne doivent être utilisées qu'à des fins d'illustration générale et ne conviennent pas ou ne sont pas destinées à la navigation, à des fins juridiques, d'ingénierie ou d'arpentage. Bien que tout ait été mis en œuvre pour assurer l'exactitude de la carte, en raison de la complexité et de l'étendue des données, toutes les représentations et/ou informations fournies ici sont approximatives et les utilisateurs doivent consulter les sources primaires de données et d'informations pour confirmer l'exactitude de la carte. La municipalité et la Conservation de la Nation Sud, leurs employés et agents, ne garantissent pas l'exactitude de la carte et ne seront pas responsables des réclamations pour dommages ou pertes résultant de son utilisation. L'utilisateur accepte et assume par la présente tous les risques inhérents à l'utilisation de cette carte. Cette carte a été produite en partie avec des données fournies par l'Échange de données géographiques de l'Ontario, sous licence du ministère des Richesses naturelles et des Forêts de l'Ontario et de l'Imprimeur du Roi pour l'Ontario, 2025.



March 6, 2025

The Right Honourable Justin Trudeau, P.C., M.P.
Prime Minister of Canada
Office of the Prime Minister
80 Wellington Street
Ottawa, ON K1A 0A2
Justin.trudeau@parl.gc.ca

Re: Carbon Tax

Dear Prime Minister,

At the meeting of Sarnia City Council held on March 3, 2025, the following resolution was adopted:

That given the advent of the US tariffs and the economic impact on Canadians it is even more critical at this time to petition our own Federal liberal government to put a stop the 20 percent increase to the carbon tax scheduled to be implemented April 1, 2025. The vast majority of Canadians do not support the carbon tax, and the timing could not be worse for the impact to our citizens; and

That the resolution be forwarded to the Prime Minister, his Cabinet, Leaders of Opposition, our MP, and All Ontario Municipalities.

Your consideration of this matter is respectfully requested.

Yours sincerely,

Amy Burkhart
City Clerk

Cc: Cabinet Ministers
The Honourable Pierre Poilievre, M.P.
The Honourable Marilyn Gladu, M.P.
All Ontario Municipalities



Town of Bradford West Gwillimbury
100 Dissette St., Unit 7&8
P.O. Box 100, Bradford, Ontario, L3Z 2A7
Telephone: 905-775-5366
Fax: 905-775-0153

www.townofbwg.com

March 12, 2025

VIA EMAIL

The Hon. Doug Ford
Legislative Building
Queen's Park
Toronto ON M7A 1A1
premier@ontario.ca

Dear Premier Ford

Re: Motion to Request Landlord Tenant Reforms

At its Regular Meeting of Council held on Tuesday, March 4, 2025, the Town of Bradford West Gwillimbury Council approved the following resolution:

Resolution 2025-79
Moved: Councillor Giordano
Seconded: Councillor Dykie

WHEREAS Ontario has expanded the accessory dwelling unit (ADU) framework to address the housing supply crisis, which includes the need to balance the interests of both tenants and small-scale landlords;

WHEREAS small-scale landlords may face financial strain when tenants withhold rent in bad faith, and delayed dispute resolution systems can result in undue hardship for landlords, while also affecting tenants' security and well-being;

WHEREAS it is crucial to support the development of legal ADUs and secondary rentals while ensuring tenants' rights are respected and upheld;

WHEREAS proposed reforms could include:

- Accelerating dispute resolution for ADUs and secondary rentals at the Landlord and Tenant Board (LTB) within 30 days, ensuring fairness for both tenants and landlords
- Introducing mediation services to resolve disputes quickly and amicably, reducing reliance on lengthy hearings
- Providing both landlords and tenants with enhanced tools for clear communication, such as standardized rental agreements and better screening practices

- Strengthening protections for tenants against unfair eviction while enforcing stricter penalties for tenants withholding rent in bad faith
- Ensuring law enforcement access to properties only under appropriate circumstances, respecting tenants' rights while supporting landlords in the resolution of unpaid rent issues
- Establishing a hardship relief fund for landlords impacted by unpaid rent, while ensuring tenants are also supported in cases of financial distress
- Offering free or low-cost legal assistance to both landlords and tenants to navigate disputes fairly.

NOW THEREFORE BE IT RESOLVED that the Town of Bradford West Gwillimbury Council requests the provincial government to look at ways to implement these balanced reforms that protect both small-scale landlords and tenants, ensuring fairness in the rental market; and

BE IT FURTHER RESOLVED that a copy of this resolution be forwarded to Premier Doug Ford, our local Member of Provincial Parliament, President of the Association of Municipalities of Ontario, Minister of Municipal Affairs and Housing, Attorney General, and all Ontario municipalities to support the creation of balanced protections for both landlords and tenants

CARRIED.

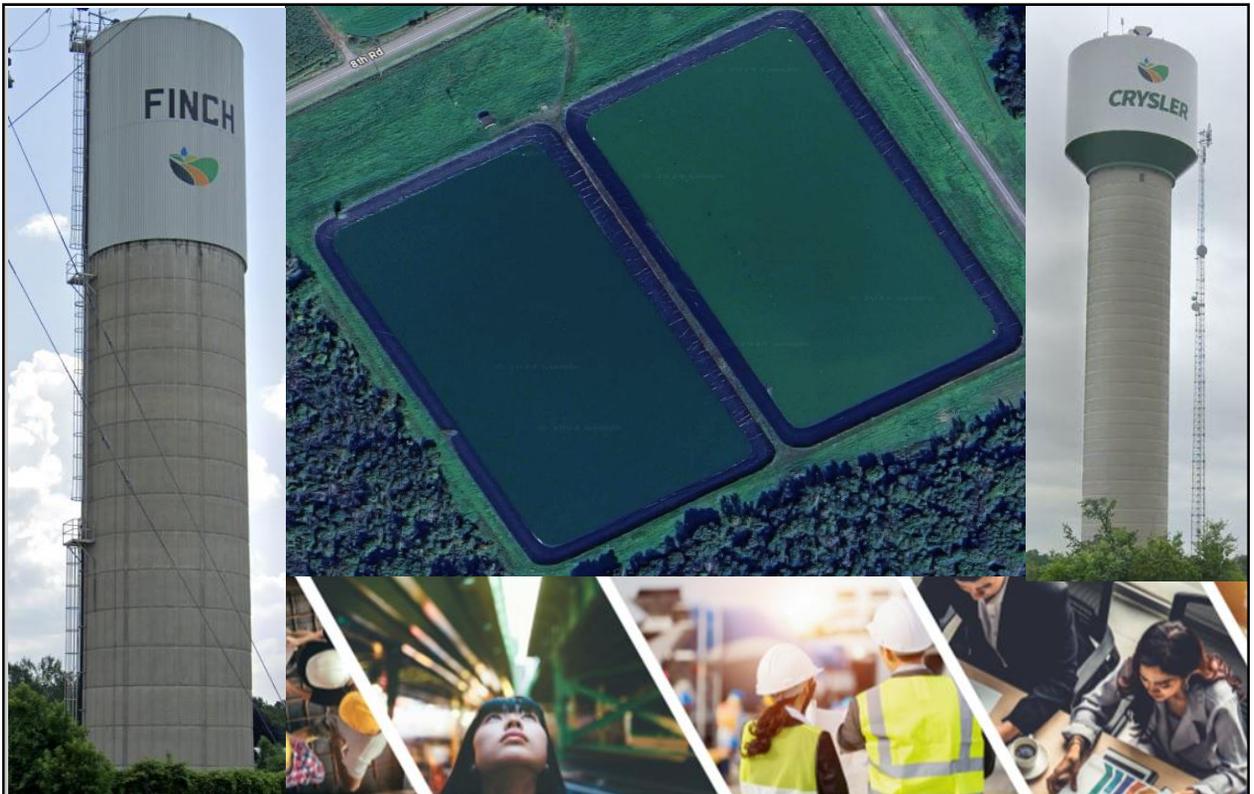
Thank you for your consideration of this request.

Regards,



Tara Reynolds
Clerk, Town of Bradford West Gwillimbury
(905) 775-5366 Ext 1104
treynolds@townofbwg.com

CC: President of Association of Municipalities of Ontario, Robin Jones - resolutions@amo.on.ca
Hon. Paul Calandra, Minister of Municipal Affairs and Housing - minister.mah@ontario.ca
Hon. Doug Downey, Attorney General - attorneygeneral@ontario.ca
All Ontario Municipalities



Township of North Stormont

Villages of Chrysler, Finch and Moose Creek Water and Wastewater Master Plan

February 12, 2024



R.V. Anderson Associates Limited
1750 Courtwood Crescent
Suite 220
Ottawa, ON, K2C 2B5

R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200
London ON N6E 1A2 Canada
T 519 681 9916 F 855 833 4022
rvanderson.com



RVA 226348

February 12, 2025

The Township of North Stormont
15 Rue Union Street, P.O. Box 99
Berwick, ON, K0C 1G0

Attention: Craig Calder
CAO / Clerk

Dear Mr. Calder:

**Re: Villages of Crysler, Finch, and Moose Creek
Water and Wastewater Master Plan**

Please find attached the final version of the Water and Wastewater Master Plan (W/WW MP) for the Township of North Stormont (Township). The Township is responsible for the provision of water and wastewater services to its serviced communities and has undertaken this study to develop, evaluate and select preferred long-term water and wastewater servicing strategies to support existing servicing needs and accommodate future projected population and employment growth to the year 2051. This report covers the following:

- The legislative and planning background to W/WW MP including the Municipal Class Environmental Assessment Process and assumptions on population growth;
- The consultation and engagement that has been undertaken;
- The evaluation criteria used in the W/WW MP;
- The Water Master Plan covering service requirements to meet expected water demand solutions to provide servicing to 2051;
- The Wastewater Master Plan covering service requirements to meet expected wastewater flow solutions to provide servicing to 2051;
- Project Recommendations; and
- A proposed Capital Implementation Plan.

This report has been updated post the 30-day Public Review Period as required by the MCEA process. This final report can now be issued with the Notice of Completion.



.../2

Township of North Stormont
February 12, 2025

-2-

R.V. Anderson Associates Limited

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED



Trevor Kealey, P.Eng.
Project Director
Cell: 613-794-6783
tkealey@rvanderson.com



Encls.: Township of North Stormont – Villages of Crysler, Finch and Moose Creek Master Plan Report

**Villages of Crysler, Finch, and Moose Creek
Water and Wastewater Master Plan**

TABLE OF CONTENTS

1.0 INTRODUCTION..... 1

 1.1 Background..... 1

 1.2 Master Plan Objective 1

1.2.1 Problem and Opportunity Statement 1

1.2.2 Master Plan Objectives 2

2.0 MASTER PLANNING PROCESS 5

 2.1 Municipal Class Environmental Assessment Process..... 5

 2.2 Master Plan Process 5

2.2.1 Overview..... 5

2.2.2 Class EA Project Schedules 6

**2.2.3 Requirements for Compliance with Regulations and Permitting
 Process..... 6**

2.2.4 Level of Cost Opinions..... 7

3.0 REFERENCED LEGISLATIONS AND POLICIES..... 9

 3.1 Legislations 9

3.1.1 Provincial Acts and Regulations..... 9

3.1.2 Federal Acts and Regulations 9

 3.2 County and Township Policies..... 9

3.2.1 United Counties Official Plan 9

3.2.2 Municipal Asset Management.....10

4.0 CONSULTATION AND ENGAGEMENT13

 4.1 Introduction13

 4.2 Notices13

 4.3 Stakeholder Consultation13

 4.4 Indigenous Consultation14

 4.5 Public Information Centres14

 4.6 Incorporating Consultation Input.....14

5.0 POPULATION ANALYSIS15

 5.1 Historical and Forecasted Serviced Population.....15

 5.2 Population Corresponding to Approved Development16

 5.3 Sensitivity Analysis.....17

6.0 EVALUATION METHODOLOGY19

 6.1 Evaluation Criteria19

 6.2 Existing Conditions: Cultural Heritage Resources.....21

7.0 WATER MASTER PLAN.....22

7.1	Data References	22
7.2	Water Systems Description	22
	7.2.1 Finch Drinking Water System.....	22
	7.2.2 Chrysler Drinking Water System	24
	7.2.3 Moose Creek Drinking Water System	24
7.3	Water Design Parameters	26
	7.3.1 Overview.....	26
	7.3.2 Water Supply	26
	7.3.3 Water Storage.....	28
7.4	Opportunities and Constraints	28
	7.4.1 Water Demand Projections	28
	7.4.2 Servicing Constraints	33
7.5	Development of Alternative Strategies.....	34
	7.5.1 Overview.....	34
	7.5.2 Alternative 1 – Do Nothing	34
	7.5.3 Alternative 2: Limit Community Growth	34
	7.5.4 Alternative 3: Reduce Water Demand.....	34
	7.5.5 Alternative 4: Expand Existing Water System	35
	7.5.6 Alternative 5: Obtain Water from Another Source	36
7.6	Post-Screening Results	37
7.7	Detailed Evaluation of Post-Screened Alternative Strategies.....	39
	7.7.1 Water Supply	39
	7.7.2 Water Storage.....	43
7.8	Preferred Water Servicing Strategy	50
	7.8.1 Overview.....	50
	7.8.2 Finch DWS	50
	7.8.3 Chrysler DWS:.....	51
	7.8.4 Moose Creek DWS	52
	7.8.5 Implementation Timeline.....	53
	7.8.6 Chrysler Sensitivity Analysis	54
	7.8.7 Climate Change Resiliency.....	56
8.0	WASTEWATER MASTER PLAN.....	57
8.1	Data References	57
8.2	Wastewater Treatment System Descriptions	57
	8.2.1 Finch - Chrysler Wastewater Collection and Treatment System....	57
	8.2.2 Moose Creek Wastewater Collection and Treatment System.....	59
8.3	Wastewater Design Parameters	60
	8.3.1 Overview.....	60
	8.3.2 Wastewater Treatment.....	60
	8.3.3 Wastewater Collection	60
	8.3.4 Wastewater Treatment.....	61
8.4	Opportunities and Constraints	62

8.4.1	Wastewater Flow Projections.....	62
8.4.2	Servicing Constraints.....	66
8.5	Development of Alternatives.....	67
8.5.1	Overview.....	67
8.5.2	Alternative 3: WWTS Infiltration and Inflow Control and Reduction	68
8.5.3	Alternative 4: Upgrade Existing Wastewater Collection and Treatment Facilities.....	68
8.5.4	Alternative 5: Expansion of the Wastewater System via New Facilities.....	69
8.6	Post-Screening Results.....	73
8.7	Detailed Evaluation of Post-Screened Alternative Strategies.....	73
8.7.1	Alternative 4B-1: Treatment Optimization via Technology.....	73
8.7.2	Alternative 4B-2: Modified Lagoon Operation.....	75
8.8	Preferred Wastewater Servicing Strategy.....	78
8.8.1	Wastewater Collection System.....	78
8.8.2	Wastewater Treatment System.....	79
8.8.3	Implementation Timeline.....	81
8.8.4	Chrysler Sensitivity Analysis.....	81
8.8.5	Climate Change Resiliency.....	81
9.0	CAPITAL PLAN.....	82
10.0	REFERENCES.....	84

LIST OF TABLES

Table 2.1:	ASTM E2516 Accuracy Range of Cost Opinions
Table 3.1:	OCWA Capital Projects
Table 5.1:	Historical and Projected Serviced Population
Table 5.2:	Committed Housing Developments and Corresponding Population as of 2023
Table 5.3:	Chrysler’s Projected Population under High Growth Scenario
Table 6.1:	MCEA Evaluation Criteria
Table 6.2:	Evaluation Rating Scale
Table 7.1:	Finch DWS Capacity
Table 7.2:	Chrysler DWS Capacity
Table 7.3:	Moose Creek DWS Capacity
Table 7.4:	Historical Water Demand Analysis
Table 7.5:	Current Required Water Storage Analysis
Table 7.6:	Forecasted Water Demand to 2051
Table 7.7:	DWS Servicing Constraints
Table 7.8:	Long List of Alternatives and Screening
Table 7.9:	Detailed Evaluation of Water Supply Alternatives
Table 7.10:	Detailed Evaluation of Water Storage Alternatives
Table 7.11:	Water Master Plan Recommendations Implementation Timeline
Table 8.1:	Chrysler WWTS Capacity

Table 8.2: Chrysler Lagoons Effluent Objectives
Table 8.3: Chrysler Lagoons Effluent Limits
Table 8.4: Moose Creek Lagoons CoA Effluent Criteria
Table 8.5: Historical Wastewater Flow Analysis
Table 8.6: Forecasted Wastewater Flow to 2051
Table 8.7: WWTS Servicing Constraints
Table 8.8: Long List of Alternatives and Screening
Table 8.9: Detailed Evaluation of Wastewater Treatment Alternatives
Table 8.10: Wastewater Master Plan Recommendations Implementation Timeline

LIST OF FIGURES

Figure 1.1: Study Area of the Village of Finch.
Figure 1.2: Study Area of the Village of Chrysler (West)
Figure 1.3: Study Area of the Village of Chrysler (East)
Figure 1.4: Study Area of the Village of Moose Creek
Figure 2.1: Municipal Class EA Planning and Design Process, Exhibit A.2
Figure 5.1: Chrysler Committed Population Growth Scenarios
Figure 7.1: Historical Residential Water Demand
Figure 7.2: Finch DWS - Projected Maximum Day Demand
Figure 7.3: Finch DWS - Projected Water Storage Requirements
Figure 7.4: Chrysler DWS - Projected Maximum Day Demand
Figure 7.5: Chrysler DWS - Projected Water Storage Requirements
Figure 7.6: Moose Creek DWS - Projected Maximum Day Demand
Figure 7.7: Moose Creek DWS - Projected Water Storage Requirements
Figure 7.8: Finch DWS Potential Water Storage Locations
Figure 7.9: Chrysler Potential Water Storage Location
Figure 7.10: Moose Creek Potential Water Storage Location
Figure 7.11: Example of extension of Moose Creek's clearwell with a storage tank
Figure 7.12: Chrysler Projected Water Storage Capacity Required under Proposed Planned Development Population Growth Rate Scenario
Figure 7.13: Chrysler Projected Water Demand under Proposed Planned Development Population Growth Rate Scenario
Figure 8.1: Historical Residential Wastewater Flow
Figure 8.2: Finch SPS - Projected Peak Flow
Figure 8.3: Chrysler Lagoons - Projected ADF
Figure 8.4: Chrysler SPS - Projected Peak Flow
Figure 8.5: Moose Creek Lagoons - Projected ADF
Figure 8.6: Moose Creek SPS - Projected Peak Flow
Figure 8.7: SPS Pump Layout and Operating Level
Figure 8.8: Technology Options for Proposed Moose Creek Wastewater Lagoon Upgrades
Figure 8.9: Chrysler Projected ADF under Proposed Planned Development Population Growth Rate Scenario

APPENDICES

Appendix A – Regulations and Legislations
Appendix B – Stakeholder Consultation Log
Appendix C – Population Analysis

1.0 INTRODUCTION

1.1 Background

The Township of North Stormont (Township) is located in eastern Ontario and is one of six Townships that form the United Counties of Stormont, Dundas and Glengarry (County). Largely composed of rural communities, the Township has three main urban settlements – Finch, Crysler, and Moose Creek – that are fully serviced by municipal drinking water systems (DWS) and wastewater treatment systems (WWTS), and comprise business and commercial areas as well as community and residential areas. The remaining communities across the Township are primarily bedroom communities and agricultural areas with private servicing.

In 2023, the Township undertook the *Growth Management Strategy study* (2023, Watson & Associates Economists Ltd.), which identified that North Stormont is anticipated to accommodate 11% of the total residential population growth in the County from 2021 to 2051. Based on the 2018 County Official Plan, growth in each Township is to be directed to areas that are fully serviced by municipal water and wastewater infrastructure. In response, the Township has undertaken the Villages of Crysler, Finch, and Moose Creek Water & Wastewater Master Plan (W/WW MP) which provides a 30-year municipal services planning strategy for the three urban settlements.

1.2 Master Plan Objective

1.2.1 Problem and Opportunity Statement

The study follows the framework of the Municipal Engineers Association Class Environmental Assessment (MCEA) Process Master Plan Approach No.1. This includes Phase 1 – *Identify Problem & Opportunity Statement*; and part of Phase 2 - *Identify Alternative and Recommended Solutions* of the Class EA process. As the first step in Phase 1 of the Class EA process, the proponent (the Township) must identify and describe the problem or opportunity that the project is intended to address. In essence, the Problem and Opportunity (PaP) statement outlines the need and justification for the overall project and establishes the general parameters, or scope, of the study. The Township has chosen the following as its statement of the problem/opportunity to be addressed by the Master Plan:

The Township of North Stormont is undertaking a Master Servicing Plan for the Villages of Finch, Crysler, and Moose Creek to plan for additional water and wastewater servicing needed to accommodate future growth to the year of 2051.

1.2.2 Master Plan Objectives

This Master Plan identified key improvements to the existing water and wastewater infrastructure to service the short- and long-term needs of the villages. Key undertaking of the Master Plan process included:

- A background review of key water and wastewater services including water supply and storage, and wastewater collection and treatment;
- Analysis of the projected population growth and its impact on the future water demand and wastewater flows;
- Development of alternative solutions that are evaluated using a criterion established based on the Township's infrastructure management goals; and
- Public engagement to obtain consultation and feedback on the preferred solution.

The preferred solution/strategy for addressing the PaP statement was determined based on its potential to:

- Comply with applicable regulations to provide adequate water and wastewater servicing;
- Comply with the Official Plan and Growth Management Strategy;
- Consider stakeholder comments and concerns;
- Be financially viable;
- Be technically feasible and operationally sustainable; and
- Be socially and environmentally responsible.

Figure 1.1 to Figure 1.4 provide a layout of the key water and wastewater infrastructure across Finch, Crysler and Moose Creek.

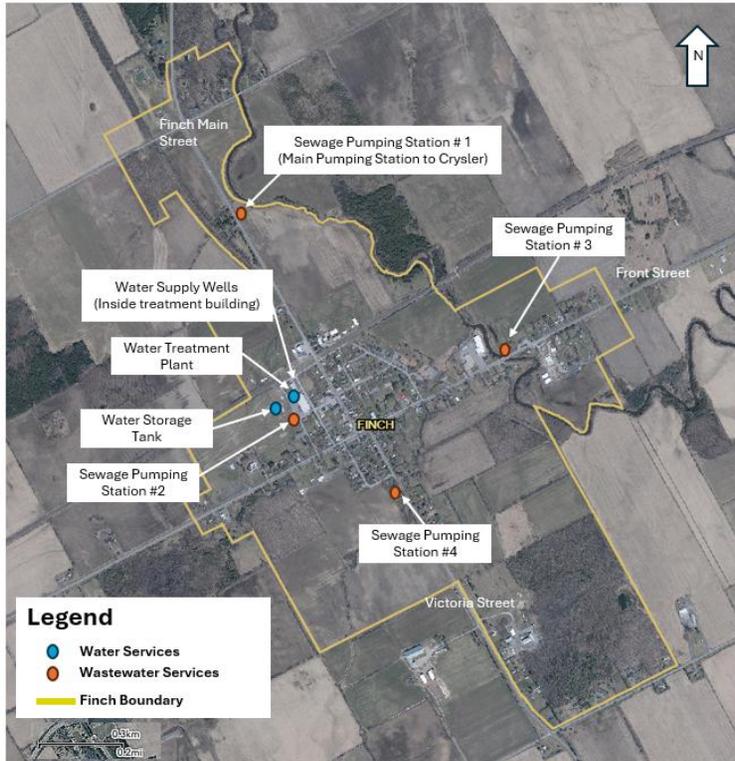


Figure 1.1: Study Area of the Village of Finch.

Finch's wastewater is treated by the Crysler wastewater treatment lagoons. Finch's wastewater collection system discharges to the Crysler wastewater collection system.



Figure 1.2: Study Area of the Village of Crysler (West)



Figure 1.3: Study Area of the Village of Crysler (East)

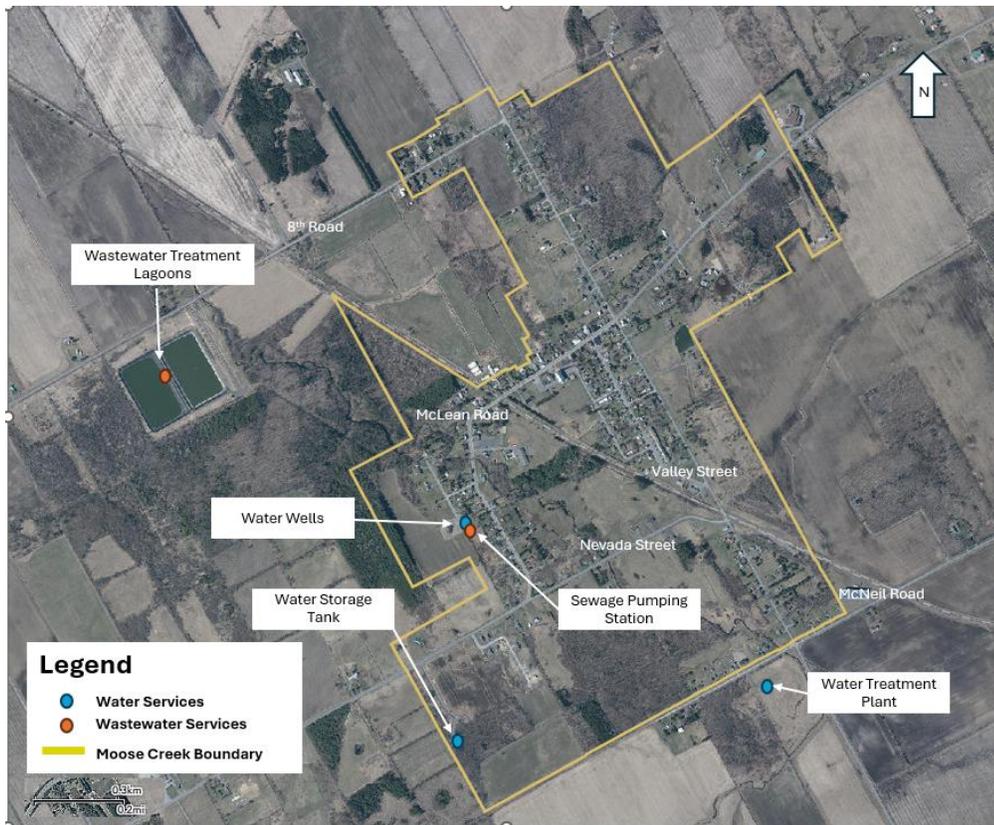


Figure 1.4: Study Area of the Village of Moose Creek

2.0 MASTER PLANNING PROCESS

2.1 Municipal Class Environmental Assessment Process

This Master Plan is being undertaken in accordance with the requirements of the Municipal Class Environmental Assessment (MCEA) as amended in March 2023. The MCEA sets out the Class Environmental (Class EA) planning process that a proponent must follow to meet the requirements of the Ontario Environmental Assessment Act for a class or category of infrastructure projects. The following are five elements in the Class EA planning process:

Phase 1 - Identification of problem (deficiency) or opportunity;

Phase 2 - Identification of alternative solutions to address the problem or opportunity. Public and review agency contact is mandatory during this phase and input received along with information on the existing environment is used to establish the preferred solution. It is at this point that the appropriate Schedule (B or C) is chosen for the undertaking. If Schedule B is chosen, the process and decisions are then documented in a Project File. Schedule C projects proceed through the following Phases;

Phase 3 - Examination of alternative methods of implementing the preferred solution established in Phase 2. This decision is based on the existing environment, public and review agency input, anticipated environmental effects and methods of minimizing negative effects and maximizing positive effects;

Phase 4 - Preparation of an Environmental Study Report summarizing the rationale, planning, design, and consultation process of the project through Phases 1-3. The ESR is then to be made available to agencies and the public for review; and

Phase 5 - Completion of contract drawings and documents. Construction and operation to proceed. Construction to be monitored for adherence to environmental provisions and commitments. Monitoring during operation may be necessary if there are special conditions.

2.2 Master Plan Process

2.2.1 Overview

The Master Plan Process provides the basis for developing a long-range plan which integrates infrastructure requirements for existing and future land use. The W/WWMP has been developed following Approach Number (No.) 1 of the MCEA process, which involves a

broad scope and a low level of assessment of the projects identified in the Master Plan. The process follows, at minimum, the same steps of the first two phases of the MCEA process, allowing integration of infrastructure requirements for existing and future land use with the MCEA process, including public and agency consultation. Therefore, any Schedule B and C projects as identified per the new MPAP will require a more detailed investigation at the project-specific level to fulfill the MCEA requirement. Figure 2.1 shows the MCEA Master Plan process, with the phases being completed by this Master Plan boxed in red.

2.2.2 Class EA Project Schedules

The projects identified via the Master Planning process are divided into schedules based on their type, and the schedules are further categorized as either **Exempt**, **Schedule B** or **Schedule C** based on the magnitude of their anticipated environmental impact. These are described briefly in the following paragraphs.

Exempt projects include various municipal maintenance, operational activities, rehabilitation works, minor reconstruction or replacement of existing facilities, and new facilities that are limited in scale and have minimal adverse effects on the environment. These projects are exempt from the requirements of the Environmental Assessment Act.

Schedule B projects are those which have a potential for adverse environmental effects. A screening process must be undertaken which includes consultation with directly affected public and relevant review agencies. Projects generally include improvements and minor expansions to existing facilities. The project process must be filed, and all documentation prepared for public and agency review.

Schedule C projects have the potential for significant environmental effects and must follow the full planning and documentation procedures specified in the Class EA document. An Environmental Study Report (ESR) must be prepared and filed for review by public and review agencies. Projects generally include the construction of new facilities and major expansions to existing facilities.

2.2.3 Requirements for Compliance with Regulations and Permitting Process

While the MPAP effectively reduces the timelines for undertaking Class EA, it is not necessarily the Class EA process that is the time critical component in project planning and implementation. The MPAP requires approvals and clearances from agencies to be obtained and given the complexity and potential impacts to the environment, the overall timeline may not be significantly reduced. One example is the requirement to obtain an Environmental Compliance Certificate (ECA) for sewage works from the MECP. If major items are not reviewed and decided at or before the Class EA with local MECP staff, then

there is an elevated risk that the ECA application will be rejected, or rework will be required, and the assumed costs carried in the Class EA or the project may no longer be valid.

2.2.4 Level of Cost Opinions

ASTM E 2516 (Standard Classification for Cost Estimate Classification System) provides a five-level classification system based on several characteristics, with the primary characteristic being the level of project definition (i.e., percentage of design completion). Table 2.1 illustrates the typical accuracy ranges that maybe associated with the general building industries. The cost estimate developed in this report would be best described as a Class 5 Cost Estimate which is typically used for high level study projects.

Table 2.1: ASTM E2516 Accuracy Range of Cost Opinions

Cost Estimate Class	Expressed as % of Design Completion	Anticipated Accuracy Range as % of Actual Cost
5	0-2	-30 to +50
4	1-15	-20 to +30
3	10-40	-15 to +20
2	30-70	-10 to +15
1	50-100	-5 to +10

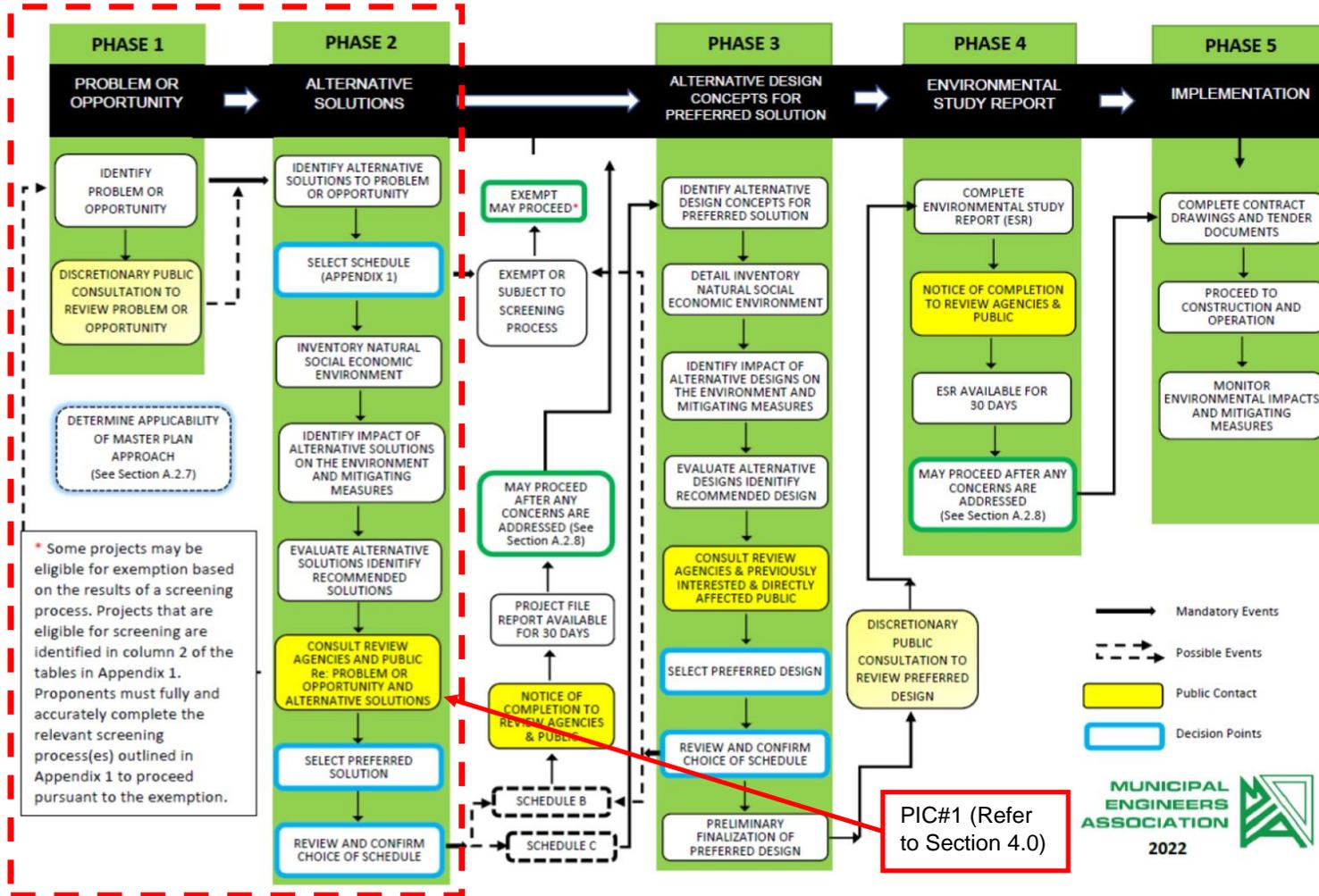


Figure 2.1: Municipal Class EA Planning and Design Process, Exhibit A.2

3.0 REFERENCED LEGISLATIONS AND POLICIES

3.1 Legislations

3.1.1 Provincial Acts and Regulations

The following Provincial Acts and Regulations were referenced for the development of the W/WW Master Plan. Details for each are provided in Appendix A.

- Environmental Assessment Act (EAA)
- Environmental Protection Act (EPA)
- Ontario Water Resources Act (OWRA)
- Water Opportunities and Water Conservation Act (WCA)
- Nutrient Management Act (NMA)
- Safe Drinking Water Act (SDWA)
- Clean Water Act (CWA)
- Sustainable Water and Sewage Systems Act
- Provincial Policy Statement 2020

3.1.2 Federal Acts and Regulations

The following Federal Acts were referenced for the development of the W/WW Master Plan. Details for each are provided in Appendix A.

- Federal Fisheries Act.
- Species at Risk Act.
- Endangered Species Act.

3.2 County and Township Policies

3.2.1 United Counties Official Plan

The *United Counties of Stormont, Dundas, and Glengarry Official Plan* (Official Plan) recognizes Finch, Crysler and Moose Creek as Urban Settlement Areas, which are defined as communities with a diverse mix of land uses and full or partial municipal sewage and water services. The Official Plan provides the following objectives that was used to develop the water and wastewater servicing recommendations for this Master Plan:

1. Growth will focus on re-development and intensification that best uses existing or planned public services including municipal water and wastewater systems;

2. Servicing capacity, including calculation of uncommitted reserve capacity for water supply and sewage disposal, will be considered at all stages of the planning process to ensure efficient use and optimization of existing sewage and water services.
3. Planned infrastructure should be designed to meet the growth and development projections or capacity requirements of settlement areas for a 10 to 20-year period. Extensions or expansion to existing infrastructure should not be made which are unnecessary or uneconomical. Infrastructure improvements may be made to address public health or safety issues.
4. Full water and sewage disposal services are the preferred servicing for urban settlement development. Private Communal sewage and water servicing shall be strongly discouraged for any development. Development may be permitted on individual on-site water and sewage systems outside service limits but within the Settlement Areas where pockets of private services exist or if the site is suitable for the long-term provision of such services with no negative impacts. In settlement areas, these services may be used for infilling and minor rounding out of existing development.
5. Reserve capacity for private communal sewage services and individual on-site sewage services is considered sufficient if the hauled sewage from the development can be treated and land-applied on agricultural land under the Nutrient Management Act, or disposed of at sites approved under the Environmental Protection Act or the Ontario Water Resources Act.
6. Generally, facility expansion or infiltration control should be considered when effluent flows reach 80% of the daily design capacity.

3.2.2 Municipal Asset Management

3.2.2.1 OVERVIEW

Strategies developed in this Master Plan took into consideration the Township's current strategy for managing its assets to ensure the performance required of them is maintained throughout their lifecycle. The Asset Management Plan (AMP) for the Township of North Stormont establishes the approach for the management of the Township's assets and provides an assessment of the current performance of municipal infrastructures based on the service level to the connected population. The Township's approach to risk management of its assets is based on the criticality of each asset related to its role in the community. The capital plan is then developed to ensure asset performance is maintained, with more critical assets having higher performance expectations. Strategies for the management of the assets over its lifecycle are as follows:

- Operational: operational activities, routine preventative maintenance, and studies on asset performance;
- Major Maintenance: repairs and component replacement to maintain asset performance;
- Rehabilitation: project to extend asset service life;
- Replacement: project resulting in a replacement of an asset with an asset that meets top industry and community expectations; and
- New Asset: construction or purchase of new assets that results in net growth of the asset inventory and an enhancement in service levels provided to the community.

3.2.2.2 2022 ASSET MANAGEMENT PLAN

The 2022 AMP was prepared by the Ontario Clean Water Agency (OCWA). It noted the following for the Township's water and wastewater assets as of 2022:

- Finch
 - › Water Assets: mostly in fair conditions with some deficiencies.
 - › Wastewater Assets: nearly all assets in good condition with no deficiencies, some rehabilitation required.
- Crysler
 - › Water Assets: mostly in good condition with some assets containing deficiencies and in need of rehabilitation.
 - › Wastewater Assets: mostly in fair condition with deficiencies and a portion of assets in need of treatment.
- Moose Creek
 - › Water Assets: nearly all assets in good condition with no deficiencies, some rehabilitation required.
 - › Wastewater Assets: most assets in good or fair condition with some deficiencies.

The 2022 AMP noted that development trends occurring during the time of the report preparation could result in water supply and wastewater treatment capacities reaching their limits within 10 years. To enhance asset performance, installation of water meters and reducing inflow and infiltration to the collection systems were also recommended.

3.2.2.3 2024 ASSET MANAGEMENT PLAN

The 2024 AMP was prepared by PSD Citywide. It noted the following for the Township's water and wastewater assets as of 2024:

- Finch, Crysler and Moose Creek’s Water Treatment is in fair condition with the most critical item being water valves which were identified to be in very poor condition; and
- Finch, Crysler and Moose Creek’s Wastewater Treatment systems were in fair condition with fair sewer network conditions. The most critical item being the Moose Creek Lagoon experiencing increased operating and maintenance costs associated with the aging of the lagoon.

3.2.2.4 CAPITAL PLAN

The Township’s proposed 5-year (2024 – 2026) capital forecast provided recommended projects as part of *Major Maintenance Recommendations* for its water and wastewater infrastructure. From the list, the projects listed in Table 3.1 were considered during the development of the Master Plan recommendations with the aim of combining projects for cost and time savings.

Table 3.1: OCWA Capital Projects

Urban Settlement	Project	Total	Year
Water Capital Projects			
Moose Creek	New Well Construction – Replacement Well No. 3	\$225,000	2024
	New Well Construction – Replacement Well No. 2	\$225,000	2025
Wastewater Capital Projects			
Finch	Replacement of Sewage Pump at SPS No. 1	\$35,000	2024
Moose Creek	New Sewage Pump for SPS	\$22,000	2024

4.0 CONSULTATION AND ENGAGEMENT

4.1 Introduction

The consultation process is an integral component of the MCEA process. As illustrated in Figure 2.1 and per the MECA process, at least two mandatory contact points are required to inform, engage, and consult with public representatives.

The Stakeholder Consultation Record for this Master Plan is attached to Appendix B and includes the following:

- Notices sent to the public including identified project stakeholders;
- Stakeholder Log containing a list of stakeholders;
- Public Information Centres presentations; and
- Public responses.

4.2 Notices

The following two notices were published:

- The Notice of Study Commencement was published on the Township's Website News & Notices Page (<https://www.northstormont.ca/living-stormont/news-notices/notice-study-commencement-water-and-wastewater>) and the project page for the Master Plan is at the following address: <https://www.northstormont.ca/living-stormont/news-notices/water-and-wastewater-master-servicing-plan>
- The Notice Of Public Information Centre was published on the Township's Website News & Notices Page (<https://www.northstormont.ca/living-stormont/news-notices/notice-public-information-centre-1>)

4.3 Stakeholder Consultation

The MCEA process requires stakeholder consultation to incorporate input from interested or impacted groups. Potential stakeholders included but were not limited to:

- Public – This includes individual members of the public including property owners who may be affected by the project, individual citizens who may have a general interest in the project, special interest groups, community representatives, and developers; and
- Review agencies – This includes government agencies who represent the policy positions of their respective departments, ministries, authorities, or agencies.

Public and Agency contact lists are compiled in the Stakeholder Log.

4.4 Indigenous Consultation

The information provided ensures the appropriate communities have been included in the contact lists for the duration of the MCEA project. Based on discussions and recommendations provided by the MECP regional office, the following Indigenous communities were to be consulted through this Master Plan process:

- Algonquins of Ontario (AOO)
- Algonquins of Pikwàkanagàn First Nation
- Mohawk Council of Akwesasne

It was determined that the Akwesasne territory is outside the Study Area Boundary and, therefore, the Mohawk Council of Akwesasne were not included on the contact list. The other two Indigenous communities were contacted and emailed all the information regarding the Master Plan. MECP additionally recommended that the Huron-Wendat be contacted if archeological studies were undertaken. These studies were not part of the project scope and therefore the Huron-Wendat were not included on the contact list.

4.5 Public Information Centres

A Public Information Centre (PIC) is a method to communicate with the public, interested parties and review agencies. For this project, one PIC was held to present the (PoP) Statement, background information collected, a review of the servicing strategies being evaluated, present the evaluation criteria, the preliminary preferred solution, and the project timeline. PIC No. 1 was held on Tuesday September 17, 2024 at Moose Creek Recreational Hall. Posted hours were from 6:00 PM to 9:00 PM.

4.6 Incorporating Consultation Input

The input and information gathered from the various parties who participated in the consultation were reviewed by the Project Team and used to develop the W/WWMP.

5.0 POPULATION ANALYSIS

5.1 Historical and Forecasted Serviced Population

All three urban settlements are not fully serviced, with properties within the urban settlement boundaries that have private septic systems and private wells. Settlement Area maps with delineated serviced boundary were obtained from the Official Plan. Each map was updated by the Township to reflect current service boundaries (as of 2023) and are attached to Appendix C. Housing units outside the serviced boundary but within the urban settlement boundary are residents of the village but are on private servicing.

As such, the actual serviced population in recent years was estimated using the sources listed below. The studies below also provided information for population growth and housing development:

- 2022 and 2024 Water and Sewage Reserve Capacity Study (RCS), R.V.A.
 - › Provided information of the number of units serviced by the DWS and WWTS
- 2023 Growth Management Strategy (GMS) study, Watson & Associates Economists
 - › Provided the forecasted residential and employment population growth.
- 2024 McBain Subdivision Servicing and Stormwater Management Report, EVB Engineering.
 - › Listed approved developments with committed municipal capacities.

Population analysis details from the information obtained from each source above are provided in Appendix C. Table 5.1 summarizes the historical and the projected serviced population to 2051.

Table 5.1: Historical and Projected Serviced Population

Urban Settlement	A = 2021 Serviced Population	2021 – 2051 Additional Population		A + B + C = 2051 Serviced Population
		B = Residential Population	C = Employment Population	
Drinking Water System				
Finch	650	290	5	950
Crysler	1,140	980	25	2,150
Moose Creek	680	490	10	1,180

Urban Settlement	A = 2021 Serviced Population	2021 – 2051 Additional Population		A + B + C = 2051 Serviced Population
		B = Residential Population	C = Employment Population	
Wastewater Treatment System				
Finch	600	290	5	900
Crysler	1,120	980	25	2,130
Moose Creek	580	490	10	1,080

The projection calculations assume that all future growth (resulting from new developments, intensification of existing serviced areas etc.) will be connected to municipal services. If the Township desires to connect the existing non-serviced lots, an updated *Reserve Capacity* study is recommended to determine the required capacity of municipal services needed to service the existing lots. Additionally, cost impacts of extending the water distribution network and sewage collection system to existing built areas would need to be considered.

5.2 Population Corresponding to Approved Development

Table 5.2 lists the approved developments in each urban settlement as of 2023 that were accounted for in the current reserved capacities of the DWS and WWTS. Finch and Moose Creek’s committed units as of 2024 was emailed by the Township Planning Staff. Servicing Management Reports approved by the Township provided the estimated population growth from the approved and planned developments. During the preparation of this Master Plan, development plans for a total of 1,062 units (that can accommodate 3,030 people) was submitted. The units are to be constructed in four phases, of which only Phase 1 comprising of 329 units which can accommodate 875 people is currently approved.

Table 5.2: Committed Housing Developments and Corresponding Population as of 2023

Urban Settlement	Units	PPU ¹	Population
Finch	14	2.55	36
Crysler ¹	329	-	875
Moose Creek	12	2.55	31

1: Average PPU from 2021 – 2051 is 2.55 as provided in the GMS Report

5.3 Sensitivity Analysis

The current approved development triggered a need for a sensitivity analysis on Chrysler’s population growth as it introduced a larger housing growth within the next 5 years than previously estimated in the GMS report. The sensitivity analysis analyzed the High-Growth scenario for Chrysler which is 0.2% higher than the growth rate adopted by the Township in the Official Plan. The population projected under this scenario were used to determine the additional capacity of municipal services that may be needed to support larger than anticipated growth. Table 5.3 provides the results of the analysis.

Table 5.3: Chrysler’s Projected Population under High Growth Scenario

Parameter	Value
Additional Population Growth 2021 - 2051	980
% Increased Growth Rate under High Growth scenario.	0.2%
Additional Population Growth 2021 – 2051 under High Growth Scenario ¹	1,040
2051 Serviced Population under High Growth Scenario – DWS	2,210
2051 Serviced Population under High Growth Scenario - WWTS	2,190

1: Value calculated using typical growth rate formula: $POP.FUTURE = POP.PRESENT \times (1+i)^n$, where i = growth rate and n = number of years.

The analysis results show that the difference between the High and Medium Growth Scenarios is very small and yield similar projected water demand and wastewater discharge per person. Therefore, only the High Growth Scenario (HGS) is proceeded with for Chrysler’s water and wastewater master planning.

Under HGS, a growth rate of approximately 17 units per year is expected per the GMS report. The application for the four-phase planned development (under which 329 units are already approved) proposes a growth rate of 30 units annually. Figure 5.1 illustrates both growth trends.

A confirmation of actual growth trends can only be obtained post development completion. The Township is recommended to observe the growth rate post development and determine whether the rate stays consistent with the forecasted rate (presented in the GMS report) or if it is accelerated in response to the available housing supply (from the ongoing approved/planned developments). The data can be analysed in the next iteration of the Master Plan or Reserve Capacity Study to determine if the expansion of drinking water and wastewater treatment municipal services needs to occur in the immediate timeline (within 5 to 10 years) instead of long-term (15 + years). Additionally, per the GMS report, Chrysler

only has an additional available designated residential land supply of 22 years or 25 acres of net residential area. Further development may require boundary expansion

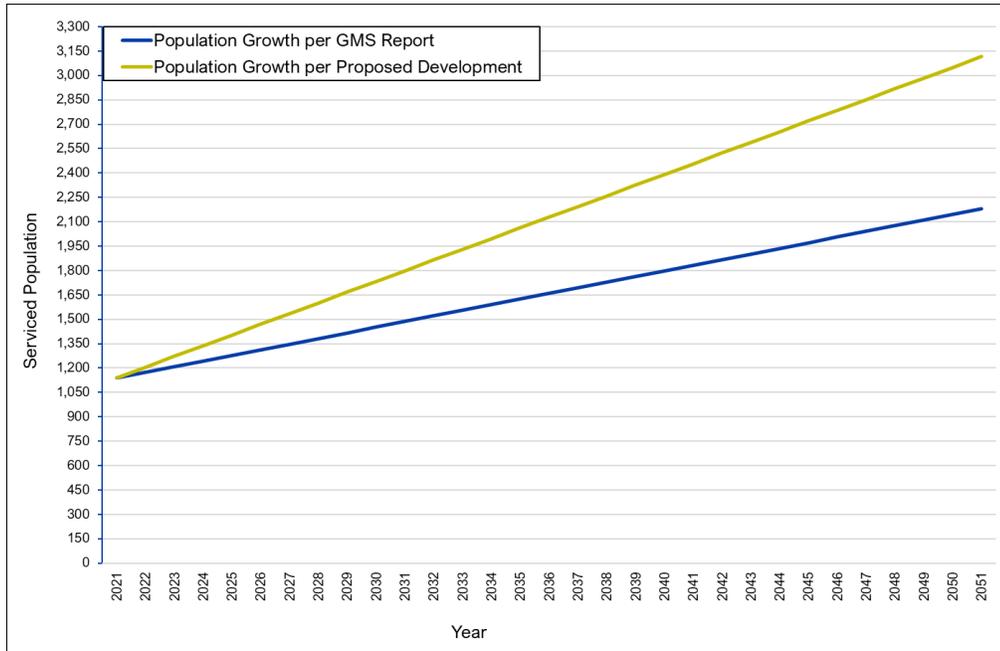


Figure 5.1: Crysler Committed Population Growth Scenarios

Forecasted water demand and wastewater flow to 2051 were calculated for both scenarios above to determine the impact on long-term municipal service planning.

6.0 EVALUATION METHODOLOGY

6.1 Evaluation Criteria

An MCEA-based evaluation criteria established in four categories as listed in Table 6.1 was used to evaluate the alternative strategies.

Table 6.1: MCEA Evaluation Criteria

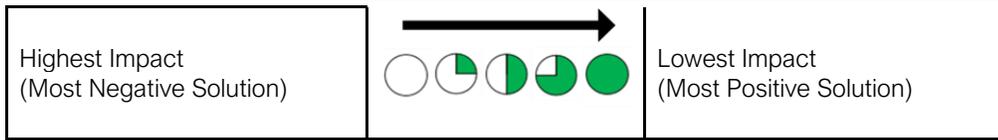
Category	General Criteria to Assess Impact
Technical	<ul style="list-style-type: none"> • Constructability • Improvements to operation • Infrastructure required • Approval requirements
Social and Cultural	<ul style="list-style-type: none"> • Public Impacts • Impacts to known and potential built heritage resources and cultural heritage landscapes • Impacts to archaeological resources and areas of archaeological potential”
Environmental	<ul style="list-style-type: none"> • Impact to aquatic and terrestrial species and habitat • Impact to surface water quantity and quality • Climate change resiliency
Economic	<ul style="list-style-type: none"> • Capital costs • Operational and maintenance costs • User value

The evaluation process followed a two-step approach; first, each alternative was assessed for its capability of meeting the PaP statement. Alternatives that did not comply were not evaluated further. Alternatives that did align with the PaP statement were shortlisted for further analysis including potential implementation strategies.

The shortlisted alternative strategies were then scored against the four categories to determine the preferred strategy that most satisfies the evaluation criteria. Table 6.2 below shows the rating scale used for the evaluation process.

Table 6.2: Evaluation Rating Scale

Evaluation Rating Scale



6.2 Existing Conditions: Cultural Heritage Resources

The Official Plan states that all heritage resources are to be conserved when making development and infrastructure decisions which may affect them, as mandated by the Ontario Heritage Act (Refer to Appendix A for Act details). To preserve its cultural heritage resources, the County initiated the Lost Villages Historical Society and the Municipal Heritage Committee. The Official Plan also sets out a screening and evaluation process to identify and conserve other heritage resources or areas of archeological potential which have not been identified, recognized or are currently unknown.

A desktop review of the cultural heritage resources in the three villages was undertaken as part of this Master Plan. Crysler's Farm was identified as heritage site in a study undertaken by Abacus Archaeological Services in 2022 in response to a new subdivision development in Crysler.

Future undertakings under the Master Plan may impact known or potential cultural heritage resources, which include archaeological resources, built heritage sites, and cultural heritage landscapes. For all future undertakings under the Master Plan, The Township shall complete the Ministry of Citizenship and Multiculturalism (MCM)'s Criteria for Evaluating Archaeological Potential screening checklist to determine whether an archaeological assessment is needed. If a project area exhibits archaeological potential, then an archaeological assessment shall be completed by a licensed archaeologist under the Ontario Heritage Act. Archaeological assessment reports are to be submitted to MCM for review as early as possible during the planning phase and prior to any ground disturbing activities. In addition, for all future undertakings under the Master Plan, the Township shall complete the MCM's Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage

7.0 WATER MASTER PLAN

7.1 Data References

The following references were used for developing the Water Master Plan;

- Finch
 - › Drinking Water Works Permit (DWWP), Number 182-201 (Government of Ontario 2002), Issued 11/20/2020
 - › Municipal Drinking Water License (MDWL), Number 182-101 (Government of Ontario 2002), Issued 11/20/2020
 - › Permit to Take Water (PTTW), Number 8713-C2HJT3 (Government of Ontario 2015), Issued 4/28/2021
- Crysler
 - › DWWP, Number 182-202 (Government of Ontario 2002), Issued 11/20/2020
 - › MDWL, Number 182-102 (Government of Ontario 2002), Issued 11/20/2020
 - › PTTW, Number 7670-CTUS46 (Government of Ontario 2015), Issued 12/20/2023
- Moose Creek
 - › DWWP, Number 182-203 (Government of Ontario 2002), Issued 11/20/2020
 - › MDWL, Number 182-103 (Government of Ontario 2002), Issued 11/20/2020
 - › PTTW, Number 4000-9YGLJP (Government of Ontario 2015), Issued 7/16/2015
- Annual Reports from 2021 – 2023 for each DWS.

7.2 Water Systems Description

7.2.1 Finch Drinking Water System

Table 7.1 lists the Finch DWS's assets and their capacities. The Finch Water Treatment Plant (WTP) and supply wells are located at 20 William Street. Both are 200 mm in diameter and 54 m deep bedrock wells and currently operate in duty/standby mode. Raw water from the supply wells is treated for Hydrogen Sulphide removal via the 0.84 m² Aeration Tower. Chlorination disinfection is then provided in the underground clearwell which are equipped with two high-lift pumps (HLPs) that operate in duty/standby mode. The pumps send the disinfected water to the Baffled Pressure Vessel where it is treated via flocculation, followed by removal of the flocculants in the downstream Dual Media Pressure Filters.

Provision of additional chlorine contact time is also provided in the piping from the point of the aeration stack up to the point of entry into the distribution system, as chlorination is introduced upstream of the aeration stack, and the pipe does not have any service connections over its entire length.

Storage and fire protection is provided by an Elevated Water Storage Tank located at William Street with a total usable capacity of 580 m³.

The Finch DWS PTTW limits the water taking per day to 778 m³/day combined from both wells. As such, the WTP operates under a MDWL and DWWP which limits the maximum daily production of treated water to 778 m³/day. Firm capacity of the water supply is taken as the capacity of a single HLP (432 m³/day) that supplies the distribution system.

Table 7.1: Finch DWS Capacity

Infrastructure	Capacity	Source
WTP Rated Capacity	778 m ³ /day	MDWL No. 182-101
Well No. 1 Rated Capacity	778 m ³ /day	PTTW No. 8713-C2HJT3
Well No. 2 Rated Capacity	778 m ³ /day	
Two (2) Submersible Pumps (one in each well)	9.5 L/s (821 m ³ /day)	Information provided by Operation Staff.
Chlorine Contact Pipe	22m of 150 mm diameter, and 12 m of 100mm diameter	DWWP No.182-201
Aeration Tower (Hydrogen Sulphide removal)	8 L/s	
Aeration Tower Blower	264 L/s	
Clearwell ¹	29.7 m ³	
Two (2) High Lift Pumps	5 L/s (432 m ³ /day)	
Baffled Pressure Vessel	8 L/s	
Two (2) Dual Media Pressure Filters	2 x 4 L/s at 9m/hr	
Backwash Storage Tank	15 m ³	
Elevated Water Storage Tank	580 m ³	
Supply Firm Capacity	432 m ³ /day	
WTP Firm Capacity	432 m ³ /day	Largest HLP out of service

1: Clearwell is used entirely for chlorine contact time. Hence, it cannot be used for storage.

7.2.2 Crysler Drinking Water System

Table 7.2 lists the Crysler DWS's assets and their capacities. Crysler is serviced by a WTP located on County Road 13 and houses two groundwater wells. Well No.1 is 12.2m deep and 250mm in diameter and Well No.2 is 13.4 m deep and 250 mm in diameter. Both wells are classified as Groundwater Under the Direct Influence of surface water (GUDI) with effective in-situ filtration. The groundwater is disinfected by a UV treatment system and by sodium hypochlorite treatment with chlorine contact time provided in a chlorine contact pipe.

Storage and fire protection is provided by an Elevated Water Storage Tank located on County Road 13 with a total usable capacity of 1,238 m³.

The Crysler DWS PTTW limits the water taking per day to 1,685 m³/day combined from both wells. As such, the WTP operates under a MDWL and DWWP which limits the maximum daily production of treated water to 1,685 m³/day. Firm capacity of the water supply is taken as the capacity of a single well pump (1,685 m³/day).

Table 7.2: Crysler DWS Capacity

Infrastructure	Capacity	Source
WTP Rated Capacity	1,685 m ³ /day	MDWL No.182-102
Well No.1 Rated Capacity	1,685 m ³ /day (365 days)	PTTW No. 3688-CR9HAC
Well No. 2 Rated Capacity	1,685 m ³ /day (142 days)	
Two (2) Submersible Pumps (one in each well)	19.5 L/s (1,685 m ³ /day) at 85m TDH	DWWP No.182-202
UV Disinfection System – Two (2) reactor units	19.5 L/s (1,685 m ³ /day), UV dose pf 40 mJ/cm ²	
Chlorine Contact Pipe	200mm diameter x 1900 m long feeder main	
Elevated Storage Facility (Water Tower)	1,238 m ³	
Firm Capacity	1,685 m ³ /day	Largest well pump out of service

7.2.3 Moose Creek Drinking Water System

Table 7.3 lists the Moose Creek DWS's assets and their capacities. Moose Creek's WTP is located on McNeil Road. Water is supplied from three 200 mm diameter underground wells;

Well No.1 is 15m deep, Well No. 2 is 31m deep, and Well No.3 is 32m deep. Disinfection is provided in a chlorine contact chamber and in the subsequent connected clear wells, from which two high lift pumps pump the treated water to the distribution system.

Storage and fire protection is provided by an Elevated Water Storage Tank located on County Road 15 with a total usable capacity of 622 m³.

The Moose Creek DWS PTTW limits the water taking per day to 896 m³/day combined from all three wells. As such, the current rated capacity of the Moose Creek DWS under its MDWL and DWWP is 896 m³/day. Firm capacity of the DWS is taken as the combined capacity of Wells 2 and 3 (600 m³/day).

Table 7.3: Moose Creek DWS Capacity

Infrastructure	Capacity	Source
Permit to Take Water (WTP Rated Capacity)	896 m ³ /day	MDWL No.182-103
Well No.1 Rated Capacity	7.43 L/s (642 m ³ /day)	PTTW No. 4000-9YGLJP
Well No. 2 Rated Capacity	3.5 L/s (299 m ³ /day)	
Well No. 3 Rated Capacity	3.5 L/s (299 m ³ /day)	
High Lift Pumps (HLP) x 2	12 L/S at 55 m TDH	DWWP No.182-203
Clearwell No.1	28.35 m ³	
Clearwell No.2	23.85 m ³	
Chlorine Contact Chamber	"L" shaped (5.6m x 2.0m x 5.35m x 1.0m)	
Water Tower	622 m ³	
Supply Firm Capacity	600 m ³ /day	Largest well pump out of service
Distribution Firm Capacity	1,036 m ³ /day	Largest HLP out of service

7.3 Water Design Parameters

7.3.1 Overview

Historical average and maximum day water demands for each DWS were obtained from the Annual Reports provided by the Township. Only data from 2021 to 2023 is considered as the connected population information is only available for those three years. The data was then analysed per the MECP *Design Guidelines for Drinking Water Systems* (MECP Guidelines).

Committed capacity is calculated per the MECP D-5-1 formula for sewage and water treatment plants, which accounts for current water demand as well as projected water demand from those future developments that have been approved to be built (as provided in Section 5.2).

7.3.2 Water Supply

Table 7.4 summarizes the historical data used to estimate the per-capita (per person) water consumption in each urban settlement. An anomaly in Crysler’s data was observed; a MDD of 1,064 m³/d was reported in August 2021. This can be taken as an anomaly when compared to a MDD of 442 m³/d reported in August 2020 and a MDD of 561 m³/d in August of 2022. However, the second largest MDD in that year is 599 m³/d which is significantly lower than the MDD reported over the 2016 – 2021 period. Hence, the MDD of 1,064 m³/d is retained and used to obtain the future maximum day per capita demand.

Table 7.4: Historical Water Demand Analysis

Year	ADD (m ³ /day)	MDD (m ³ /day)	Peaking Factor ¹	Connected Population ²	Average Daily Per-Capita Demand (L/cap/day)
Finch DWS					
2021	241	537	2.2	645	374
2022	294	574	2.0	658	447
2023	351	605	1.7	671	523
Average	295	572	2.0	-	448
Crysler DWS					
2021	307	1,064	3.5	1,140	269
2022	323	778	2.4	1,180	274
2023	389	917	2.4	1,220	319

Year	ADD (m ³ /day)	MDD (m ³ /day)	Peaking Factor ¹	Connected Population ²	Average Daily Per-Capita Demand (L/cap/day)
Average	340	920	2.7	-	287
Moose Creek DWS					
2021	215	506	2.4	679	317
2022	221	523	2.4	692	320
2023	209	471	2.3	704	297
Average	215	500	2.3	-	311

1: Peaking Factor is taken as the ratio of the MDD to the ADD.

2: Values are not rounded, to allow providing the actual numbers used to calculate the per-capita factors.

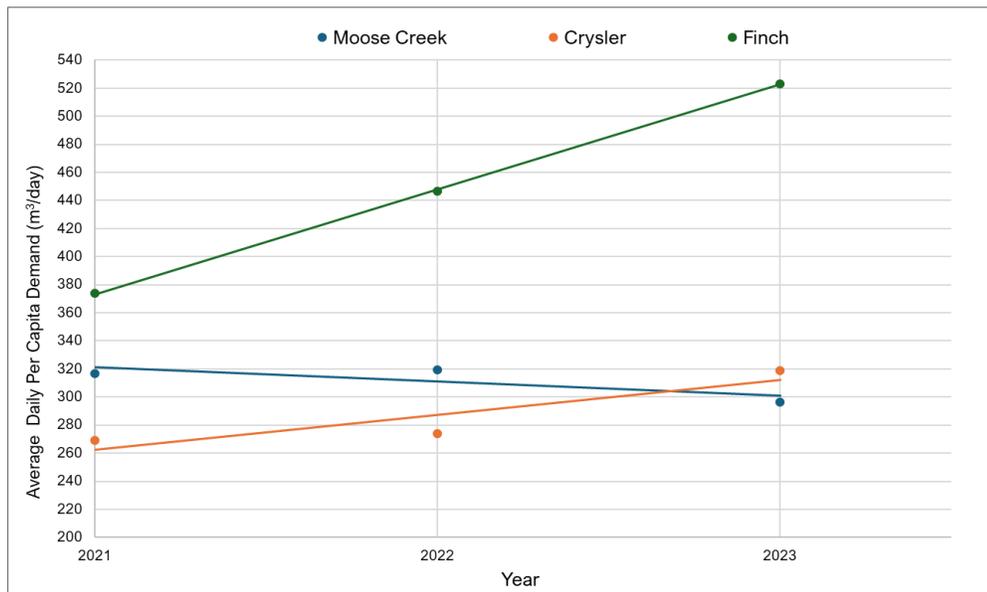


Figure 7.1: Historical Residential Water Demand

The data is illustrated graphically in Figure 7.1 and suggests that:

- The average daily per-person water use is increasing on average in North Stormont with the exception of Moose Creek, which maybe an outlier and not necessarily a reflection of decreasing trend;
- Finch particularly has a significantly high per-capita demand, when compared to typical values of 250 – 450 L/cap/day provided by the MECP Guidelines. This may be a result of lack of water metering, the impacts of which is further detailed in

7.5.4. The maximum day peaking factors range from 1.7 to 2.7, which is typical for the size of each urban settlement; and

- Chrysler’s average per capita demand is lower than that of Moose Creek’s and Finch’s, and may result in underestimating the future water demand especially when its trend is observed to be increasing. As such, only the 2023 per capita demand of 319 L/cap/day is used to project Chrysler’s future water demand.

7.3.3 Water Storage

The required water storage capacity was calculated in accordance with the MECP Guidelines for systems providing fire protection. Table 7.5 provides the water storage capacity required to meet the current demands of each DWS.

Table 7.5: Current Required Water Storage Analysis

Parameter	Finch	Chrysler	Moose Creek
2023 Population	671	1,220	704
A = Fire Flow Storage (m³) <ul style="list-style-type: none"> • Population < 1,000 = Fire Flow of 38 L/s to be supplied for 2 hours • 1,000 > Population > 1,500 = Fire Flow of 64 L/s to be supplied for 2 hours 	274	461	274
B = Equalization Storage (m³) = 0.25 x MDD m³/d	151	229	118
Emergency Storage (m³) = 0.25 x (A + B)	106	173	98
Required Storage as of 2023 (m³) = (A + B + C)	531	863	489
Water Storage Capacity (m³)	580	1,238	622
Remaining Additional Available Water Storage (m³) as of 2023	49	375	133

7.4 Opportunities and Constraints

7.4.1 Water Demand Projections

Table 7.6 provides the following information, which are illustrated graphically from Figure 7.2 to Figure 7.7:

- Future water demand using the historical average per-capita water use (from Table 7.4) and the forecasted population (from Table 5.1); and
- DWS committed capacity taken as the capacity of the respective WTPs that are committed as of 2023, and remaining available (uncommitted) capacity that can be allotted to future housing/population growth.

Table 7.6: Forecasted Water Demand to 2051

Parameter	Urban Settlement	Finch	Crysler (HGS)	Moose Creek
Water Supply				
A = 2051 Serviced Population		950	2,200	1,180
B = Per-Capita Demand (m ³ /day)		0.448	0.319	0.311
C = Maximum Day Peaking Factor		2.0	2.7	2.3
A x B x C = D = 2051 MDD (m ³ /day)		828	1,927	850
Water Storage				
E = Fire Flow Storage (m ³) <ul style="list-style-type: none"> • Population < 1,000 = Fire Flow of 38 L/s to be supplied for 2 hours • 1,000 > Population > 1,500 = Fire Flow of 64 L/s to be supplied for 2 hours • 2,000 > Population > 3,000 = 95 > Fire Flow > 110 (L/s) to be supplied for 2 hours 		274	706	461
0.25 x D = F = Equalization Storage (m ³)		207	469	213
0.25 x (E + F) = G = Emergency Storage (m ³)		120	294	168
E + F + G = H = Required Storage as of 2023 (m ³)		601	1,468	842
I = Water Storage Capacity (m ³)		580	1,238	622
I – H = J = Remaining Additional Available Water Storage (m ³) as of 2023		(-21)	(-230)	(-220)
Committed Capacity				
K = Committed Population		40	875	30
J = Current MDD (m ³ /day) ¹		572	920	500
L = Per-Capita Demand (m ³ /day)		0.448	0.319	0.311
M = Maximum Day Peaking Factor		2.0	2.7	2.3
K x L x M = N = MDD from Committed Population (m ³ /day)		35	766	36
J + N = O = Total Committed Capacity (m ³ /day)		607	1,685	522
P = DWS Rated Capacity		778	1,685	896
P – O = Q = Remaining Available Capacity (m ³ /day)		170	0	375

1: Current MDD is taken as the average historical MDD from 2021-2023 for each DWS, as provided in Table 7.4.

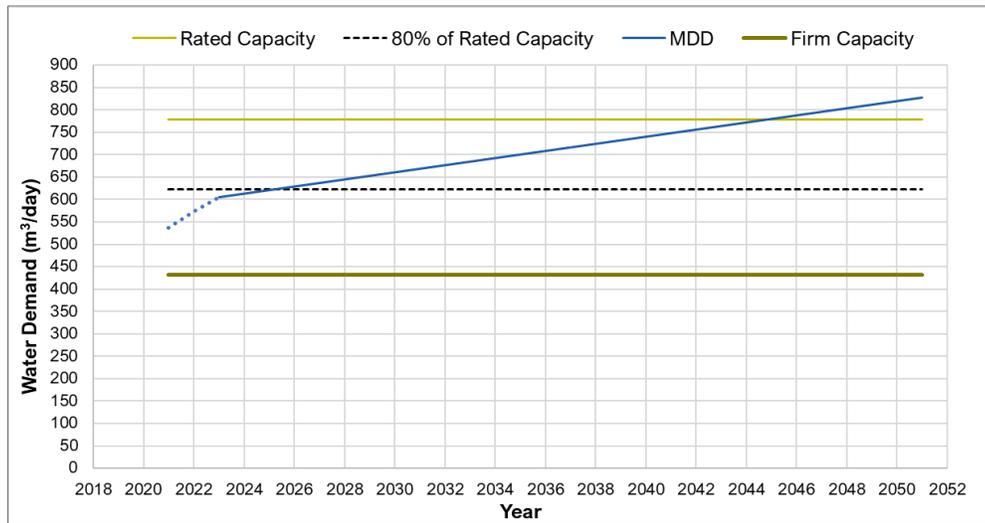


Figure 7.2: Finch DWS - Projected Maximum Day Demand

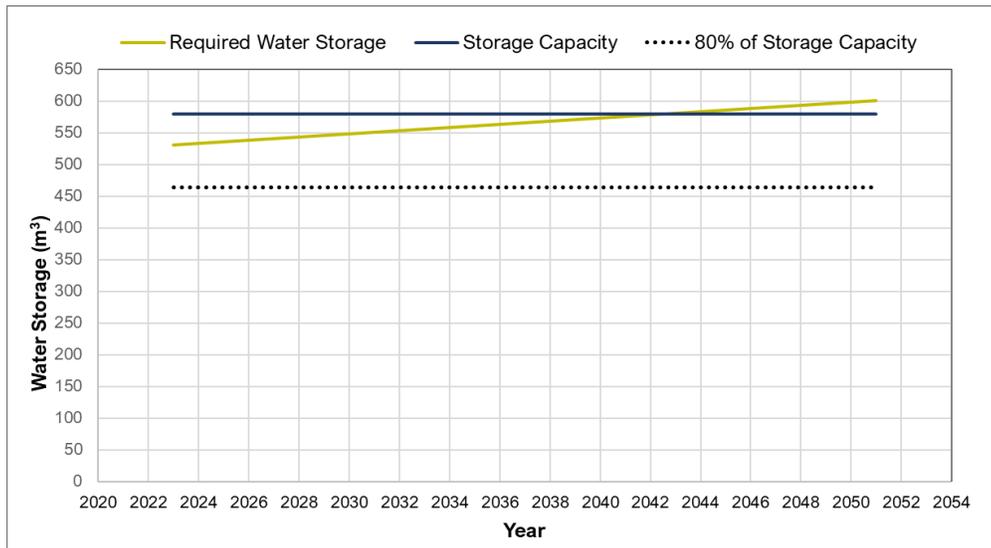


Figure 7.3: Finch DWS - Projected Water Storage Requirements

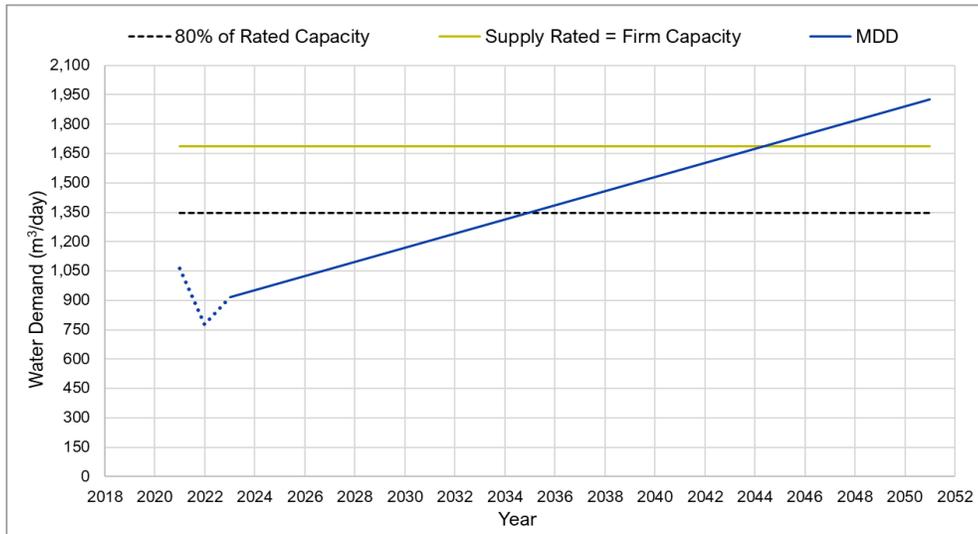


Figure 7.4: Crysler DWS - Projected Maximum Day Demand

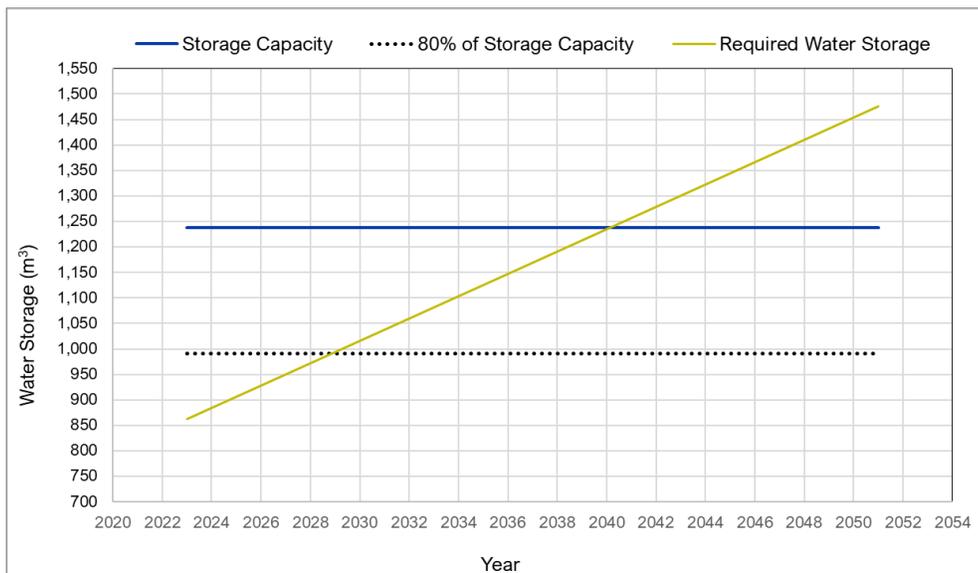


Figure 7.5: Crysler DWS - Projected Water Storage Requirements

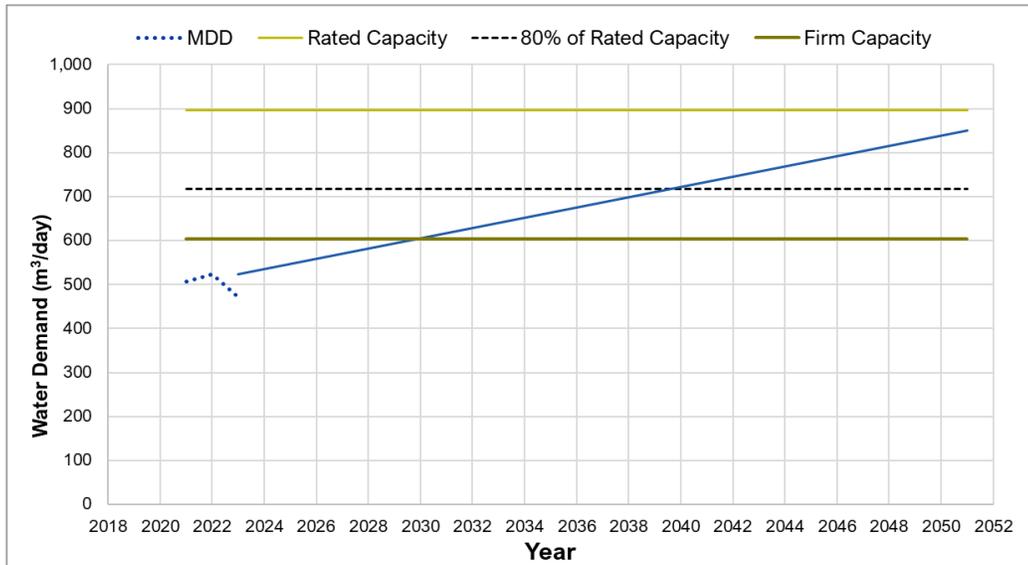


Figure 7.6: Moose Creek DWS - Projected Maximum Day Demand

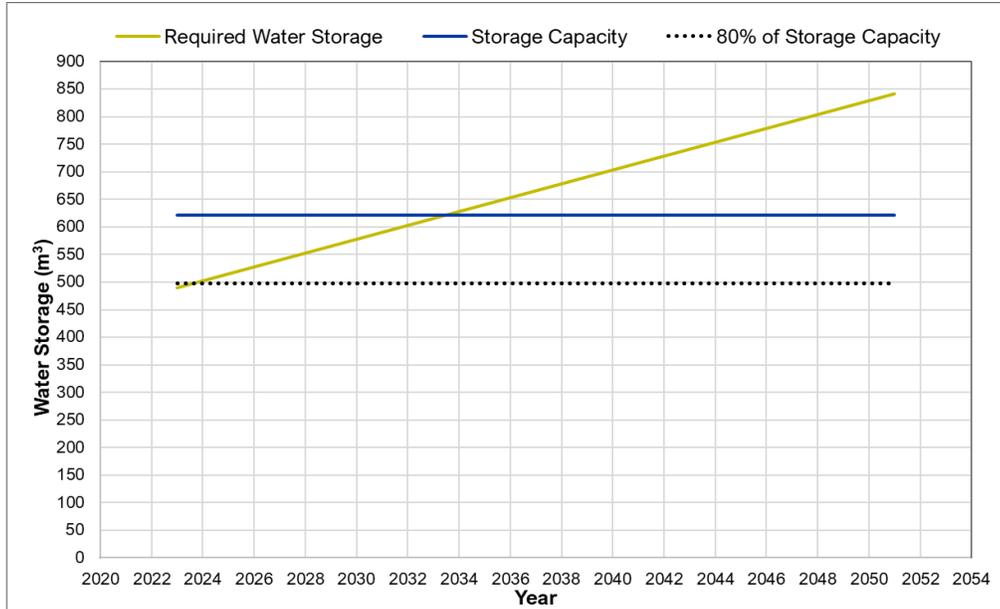


Figure 7.7: Moose Creek DWS - Projected Water Storage Requirements

7.4.2 Servicing Constraints

Table 7.7 provides the projected capacity deficits that will result in servicing constraints for each of the DWSs.

Table 7.7: DWS Servicing Constraints

Parameter Urban Settlement	m ³ /day					m ³		
	2051 MDD	Rated Capacity	Surplus / (Deficit)	Firm Capacity	Surplus / (Deficit)	2051 Required Storage Capacity	Available Storage Capacity	Surplus / (Deficit)
Finch	828	778	(-50)	432	(-396)	601	580	(-21)
Crysler – High Growth Scenario	1,927	1,685	(-242)	Same as Rated Capacity		1,476	1,238	(-238)
Moose Creek	850	896	46	604	(-246)	842	622	(-220)

Additionally, the following issues were obtained from the system operators for the Finch DWS:

- High per capita water usage. Although this may be attributed to several factors including Finch’s leaky water distribution network (that the Township suspects maybe the cause), the key reason can be attributed to not metering water consumption. Although efforts are ongoing efforts to fix the leaky system, this strategy has a low cost/benefit ratio due to difficulty of locating the actual sources of leaks, construction costs to fix them, and potentially low water recovery post work.
- Based on the DWWP and information provided by the Township, the firm capacity of the HLPs is 432 m³/day. Per the MECP guidelines, the capacity of HLP distributing treated water should be able to meet the rated capacity of the DWS with the largest unit out of service. This may also lead to water distribution constraints.
- The existing singular clearwell is used for chlorine contact time and poses maintenance difficulties as there is no backup well and cleaning can only be undertaken by scuba divers.

7.5 Development of Alternative Strategies

7.5.1 Overview

This section provides the assessment of the alternate strategies developed to address the forecasted servicing constraints. The following alternatives strategies were determined as potentials for addressing the identified constraints:

1. Do Nothing;
2. Limit Community Growth;
3. Reduce Water Demand;
4. Expand Existing Water System; and
5. Obtain Water from Another Source.

Each alternate strategy is detailed in the following subsections and evaluated at a high-level for its ability to meet the requirement of the PaP statement. A shortlist of strategies is then established and scored against each category in the evaluation matrix to narrow down to the preferred strategy.

7.5.2 Alternative 1 – Do Nothing

As required in the Class EA process, an alternative of ‘Do Nothing’ must be examined. This alternative provides a benchmark for what would occur should the proposed activities not proceed and also provides a point of reference for the other alternatives.

“Do Nothing” suggests that no improvements or expansions would be undertaken in either of the DWSs. This solution would not address the capacity concerns and would prevent growth and development. Therefore, “Do Nothing” alternative is not an acceptable solution and is not evaluated further.

7.5.3 Alternative 2: Limit Community Growth

This alternative solution considers the anticipated impacts if community growth is limited to the existing DWS capacities. Although limiting the community growth would reduce/mitigate the projected storage and water supply deficits, it is contrary to the objectives of the Township and the Official Plan and is similar to the “Do Nothing” alternative. Therefore, this alternative is not evaluated further.

7.5.4 Alternative 3: Reduce Water Demand

This strategy looks at reducing water consumption to an efficient value, thereby delaying the year rated capacities will be exceeded by. This can be an effective strategy for Finch as it

only exceeds the rated capacity by 50 m³/day, which maybe recoverably if water use per person is reduced. However, since the water demand is much larger than the DWS's firm capacity, reducing water use cannot address the deficits noted in Table 7.6 on its own.

Water conservation programs allow educating water users on limiting water usage and preventing water waste. A key requirement for efficient water use are water meters.

Installation of water meters allows for the following benefits:

- Monitor water consumption and allow comparison of the demand rate to neighbouring municipalities or to typical demand rates based on population size;
- Accurate water charge to each consumer; and
- Identification of a leaking system, pipe damages and other problems that contribute to water loss and non-revenue water.

The Ontario Water Work Association (OWWA) published *Water Efficiency Best Management Practices* in 2005 (prepared by its Water Efficiency Committee) which noted that metering is critically important as it can contribute to 'deferring or eliminating major capital expenditures for plant expansion' which includes wastewater infrastructure. According to the 2001 Environment Canada study, water users that are not metered have a water usage per capita of 475 L/cap/day, whereas metered users only use 272 Lpcd (43% less). As of 2015, survey conducted by Environment Canada showed that 92% of Ontario's communities were metered.

Additionally, several studies conducted for small and large communities across Ontario have found that installing water meters reduced water demand and wastewater flows by 44% and 15% respectively. For instance, the Barrie Water Conservation program has successfully deferred millions of dollars in water and wastewater supply capital expenditures with its retrofit water conservation program, including a reduction of 55L/day per house unit.

As a result, while water conservation alone won't address the PoP, recommendations for all three water systems will start with water conservation as this could significantly delay the need for expensive system upgrades.

7.5.5 Alternative 4: Expand Existing Water System

7.5.5.1 ALTERNATIVE 4A: WATER SUPPLY EXPANSION

Water supply capacity can be increased via the following alternative strategies:

- Alternative 4A-1: *Upgrade/Expand Capacity of Existing Wellfield and Treatment Plant*. This could be completed through the addition of a new well on the existing

site, or increasing the capacity of treatment system, or increasing capacity of the HLPs, or a combination of the three.

- Alternative 4A-2: *New Well and Treatment Plant in a New Wellfield/Treatment Plant Location.*

Both of these alternatives address the PaP statement and offer solutions for the forecasted supply deficits. They are further evaluated in the short list of alternatives. It is important to note, however, that confirmation of any new well capacity would first require hydrogeological investigation, drilling and pump testing.

7.5.5.2 ALTERNATIVE 4B: WATER STORAGE EXPANSION

Water storage capacity can be increased via the following potential options:

- Alternative 4B-1: New Elevated Water Storage Facility.
- Alternative 4B-2: New At-Grade Storage Facility

Both alternatives address the PaP statement and offers solutions for the forecasted water storage deficits. They are further evaluated in the short list of alternatives.

7.5.6 Alternative 5: Obtain Water from Another Source

Water may be bought from adjacent large municipalities with the option of either decommissioning the existing facility and acquiring all water from outside the village, or servicing only the additional growth from the adjacent municipalities. For Finch, Crysler and Moose Creek, the only closest municipality that can provide both options is Cornwall. However, the minimum distance is more than 30km which makes it a non-feasible project with no economical justifications.

For Finch and Crysler, the option to explore a communal water supply and storage facility between the two villages can be implemented under either of the following two options.

- Alternative 5A comprises of installing new wells in only one village and having them sized so that they can meet the additional water demand of both villages to 2051. The communal well water would be treated at the local WTP in the village its located, and then pumped to the connecting village via a new watermain. Provision for re-chlorination of the pumped water would likely be needed. Since the Finch wells are bedrock wells with higher well investigation and treatment costs (due to the presence of hydrogen sulphide), it may be more feasible to install the new well in Crysler with the required treatment provided in the existing Crysler WTP.
- Alternative 5B comprises new well(s) and an associated WTP located between the two villages along County Road 12.

Both solutions above would require a communal storage facility sized to supplement existing storage as required for each of village.

Evaluating the two options above to determine the preferred option under this alternative:

- Option 5A: Although the cost of the new well can be avoided in one of the villages, the total length from the Chrysler Wellfield to the Finch WTP is approximately 15 km. A 200mm watermain for that distance is approximately \$19 Million.
- Option 5B: This solution scores relatively low on social-cultural criteria as land acquisition may be needed for the new location of the WTP, well and storage facility. Although its costs can be offset by the costs of separate new wells, it still scores low on economic criteria due to the long watermain, new WTP, and new storage facility that would be required.

As such, this alternative is not evaluated further due to economical infeasibility.

7.6 Post-Screening Results

Based on the screening in Table 7.8, the following alternatives are not considered further:

- Alternative 1 – Do Nothing
- Alternative 2 – Limit Community Growth
- Alternative 5 – Obtain Water from Another Source

Only Alternative 3 – *Reduce Water Demands (Increase Water Conservation)* and Alternative 4 - *Expand Existing Water Supply and Storage System* met the PaP statement and were determined to be feasible against the evaluation criteria. Alternative 3 is a standalone strategy and, therefore, is not evaluated further. The strategies considered under Alternative 4 are evaluated per the MCEA based criteria established in 6.0 to determine the preferred strategy that addresses the identified constraints.

Table 7.8: Long List of Alternatives and Screening

Alternatives		Does the alternative address the Problem & Opportunity Statement?	Is the alternative technical and economically feasible?	Can the alternative be implemented without significant impacts?	Summary
1	Do Nothing	X	X	X	Not an acceptable solution and is not evaluated further.
2	Limit Growth	X	✓	X	Not an acceptable solution and is not evaluated further.
3	Reduce Water Demand (Increase Water Conservation)	X	✓	✓	This alternative on its own is not acceptable as a complete solution. It will be recommended as a general sustainability goal.
4	Expand Existing Water Supply and Storage System	✓	✓	✓	<p>Water Supply: Alternative 4A-1: Upgrade/Expand Capacity of Existing Wellfield and Treatment Plant; or Alternative 4A-2: New Well and Treatment Plant in a New Wellfield/Treatment Plant Location.</p> <p>Water Storage: Alternative 4B-1: New Water Storage Tower/Standpipe (in addition to the existing storage facility); or Alternative 4B-2: New At-Grade Water Storage Tank (in addition to the existing storage facility)</p>
5	Obtain Water from Another Source	✓	X	X	Will require land acquisition, high capital costs, permit and other requirements. Therefore, not evaluated further.

7.7 Detailed Evaluation of Post-Screened Alternative Strategies

7.7.1 Water Supply

7.7.1.1 ALTERNATIVE 4A-1: UPGRADE/EXPAND CAPACITY OF EXISTING WELLFIELD AND TREATMENT PLANT.

Key advantage of upgrading existing wells or installing a new well in the same wellfield is that it may minimize the hydrogeological investigation needed by relying on the existing site information. It would also minimize costs associated with raw water conveyance to the WTP. In some cases the existing treatment plant will also need to be upgraded and/or expanded, however this would usually be less expensive than constructing a brand new facility. Hence, this alternative scores higher on the technical and economical criteria.

The following are limitations or disadvantages to this strategy:

- Any new well at an existing well site or increase in capacity of an existing well will be subject to a hydrogeological study and testing, then to the approval of the MECP. While the increases required in the three North Stormont water systems is not large, it is still possible that the increased capacity would not be available. In that case, it would be necessary to look for a new well field location to supply the additional capacity (i.e. Alternative 4A-2)
- Installing all wells within the same wellfield results in less water security than having water supplied from two different well fields. Any adverse impacts to the one wellfield could possibly impact all the wells within that area, that could place the full supply at risk.
- Drilling a new well in the existing wellfield could result in temporary water quality in existing wells.

These limitations lower the scores for the technical and social-cultural criteria. The challenges listed above can be addressed to some degree as follows:

- A detailed review of the existing hydrogeological investigation report for:
 - › Existing aquifer conditions;
 - › Sustainable water supply capacity including any constraints to operating at the maximum allowable permit limit; and
 - › Identification of any risks to system operation.

This can become the basis for the hydrogeological investigation that will have to be undertaken for the new well;

- An updated wellhead protection plan for continued protection of the wellfield from potential sources of contamination;
- During drilling, monitoring of the water quality in the adjacent wells and preparing a backup plan for water supply in case the wells must be shutdown; and
- Ongoing source protection management and diligence can reduce risks of aquifer contamination.

7.7.1.2 ALTERNATIVE 4A-2: NEW WELL IN NEW WELLFIELD

Separating sources of water supply to different wellfield provides a measure of water security against issues such as aquifer contamination, thereby implementing a redundant system which raises the score for social-cultural criteria. However, main disadvantages to this alternative are:

- Requirement of a new WTP at the new wellhead location;
- A new watermain will also have to be installed up to the connection point to the existing watermain;
- Higher capital costs for land and for all-new construction; and
- Higher operating costs since there would be an additional site for operations staff to visit and maintain, including new chemical supply and water quality monitoring requirements.

Hence, the cost implications of this alternative are significant and lowers the score for economical and technical criteria.

It must be noted that Alternative 4A-1 is subject to hydrogeological investigations to determine whether additional supply is available from the site. If not, Alternative 4A-2 may be the only possible strategy to address the noted deficits.

Table 7.9: Detailed Evaluation of Water Supply Alternatives

Evaluation Criteria	Alternative 4A-1: New Well in Same Wellfield	Rating	Alternative 4A -2: New Well in New Wellfield	Rating
Technical	<ul style="list-style-type: none"> Hydrogeological investigation can be conducted based on the existing wells which can reduce the investigation size Current treatment processes can be upsized within the same building to meet future treatment demand. 		<ul style="list-style-type: none"> New WTP required at new wellfield location which may require land acquisition Unknown conditions of new site can result in larger hydrogeological investigation 	
Social and Cultural	<ul style="list-style-type: none"> Would likely not require additional land acquisition Known cultural heritage resources Potential impacts to existing supply wells that may impact their ability to supply water; however, this can likely be addressed through construction practices Shorter construction period than Alternative 4A-2 		<ul style="list-style-type: none"> Potential impacts to nearby land uses due to well head protection area (WHPA) delineation Ensures water security and redundancy to all users Unknown cultural heritage resources until specific site is selected 	
Environment	<ul style="list-style-type: none"> Implementation within known and previously investigated environmental conditions Less environmental impacts than Alternative 4A-2 as existing site has been previously disturbed 		Unknown environmental conditions until specific site is selected.	
Economic	<ul style="list-style-type: none"> Minimizes cost of conveying raw water to WTP Lower capital cost than Alternative 4A-2 Use of existing facility and existing municipal land Lower operational and maintenance costs compared to Alternative 4A-2 		<ul style="list-style-type: none"> Larger capital cost associated with: <ul style="list-style-type: none"> A new water treatment facility and pumping Complexity of investigation prior to construction; Operation and maintenance of two facilities instead of one. 	
Overall Score and Summary	Recommended Alternative		Not recommended (unless Alternative 4A-1 cannot be completed due to hydrogeological limitations) due to	

			higher capital and operating costs and more complex implementation	
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7.7.2 Water Storage

7.7.2.1 ALTERNATIVE 4B-1: NEW ELEVATED WATER STORAGE FACILITY

This alternative assesses the option of a new water storage facility in a new location, in addition to the existing location. The existing elevated towers are to be retained in each DWS to minimize the size required of the new facility. Recommendations for proposed storage locations consider elevations across the village, redundancy of supply and availability of land.

- Finch DWS
 - › Figure 7.8 is a map of the Finch water distribution network. The map shows the elevations of the village which suggest a relatively flat terrain. To maintain a single pressure zone, the three potential locations for the towers (shaded in purple) are selected based on being at similar elevations to the existing tower location. Location 1 and 2 are at the East end of the village along County Road 43. Location 3 is at the South end along Concession 1-2 Road. The exact location can be determined based on the land availability and potential cost sharing if development is proposed in those areas. Locations 1 and 2 provide an added benefit to being located across the river in that it provides redundancy to the existing serviced units and future developments located east of the river, and fire flows can be fed from both ends of the distribution system.
- Crysler DWS
 - › Figure 7.9 is a map of the Crysler water distribution network and illustrates the elevations of the village which suggest that there is relatively flat terrain. As such, one potential location for an elevated storage tank (highlighted in purple) is west of the village, north of the river along Charles Street. The ground at this location is at an elevation similar to the current water tower, possibly allowing the single pressure zone to be maintained. Due to the South Nation River cutting through the village, there is currently only one water distribution pipe connecting the two sides. A tower at this location would therefore be able to provide some emergency water supply redundancy to the systems north of the river in case of watermain failure.
- Moose Creek DWS
 - › Figure 7.10 illustrates a potential location for the storage facility, selected based on being at similar elevations to the existing storage location and being past the tracks which can provide redundancy to existing and future serviced units.

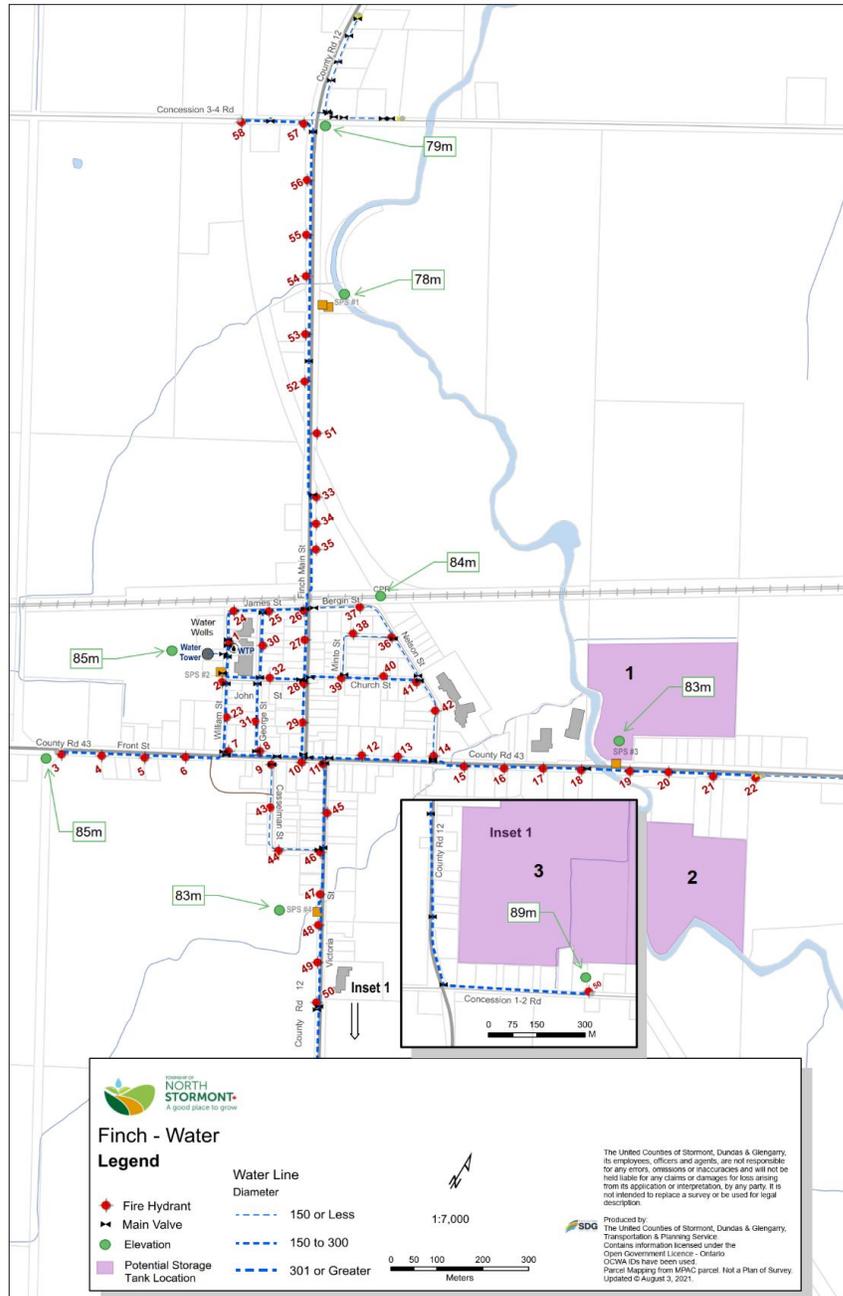


Figure 7.8: Finch DWS Potential Water Storage Locations

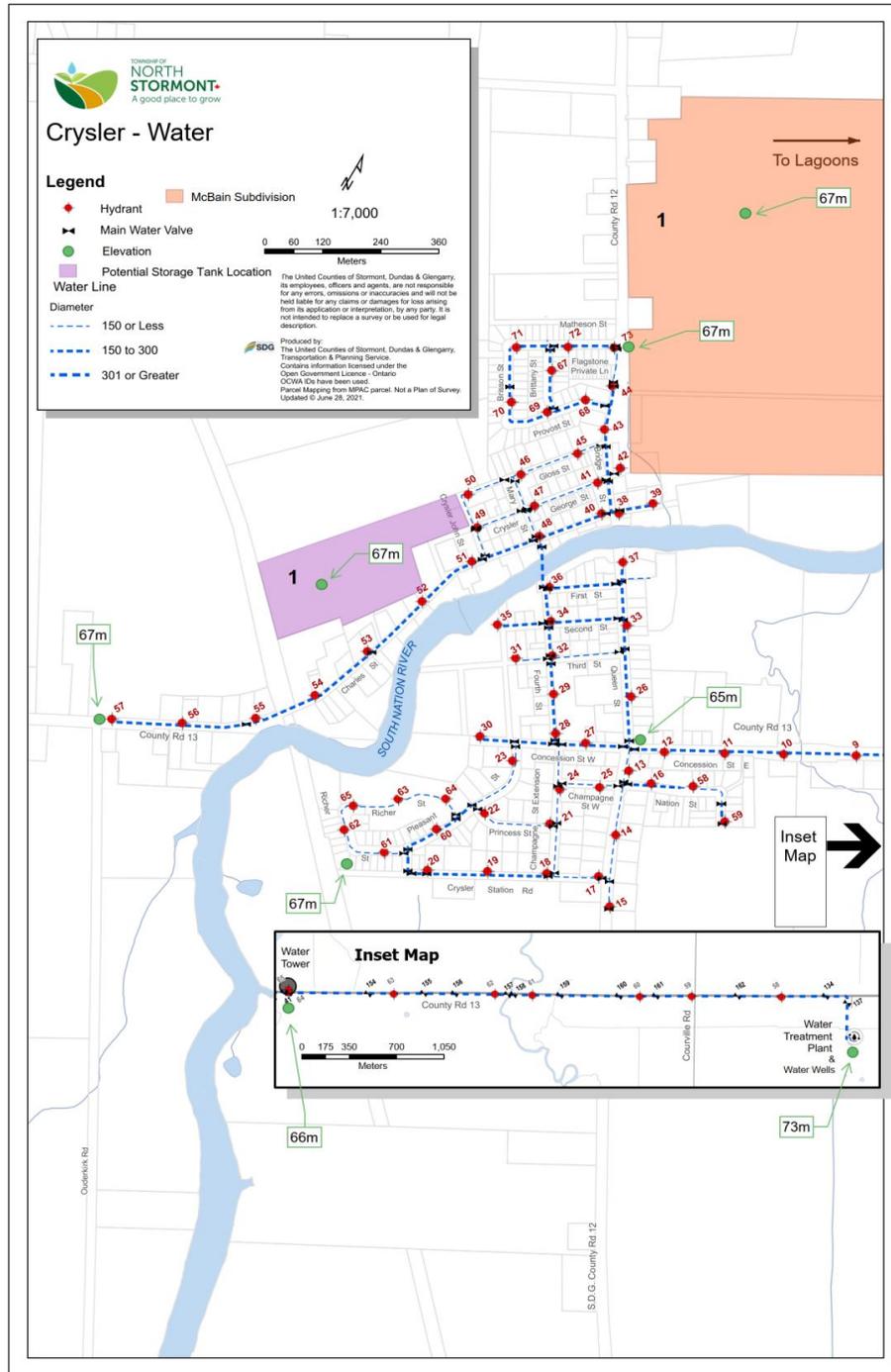


Figure 7.9: Chrysler Potential Water Storage Location

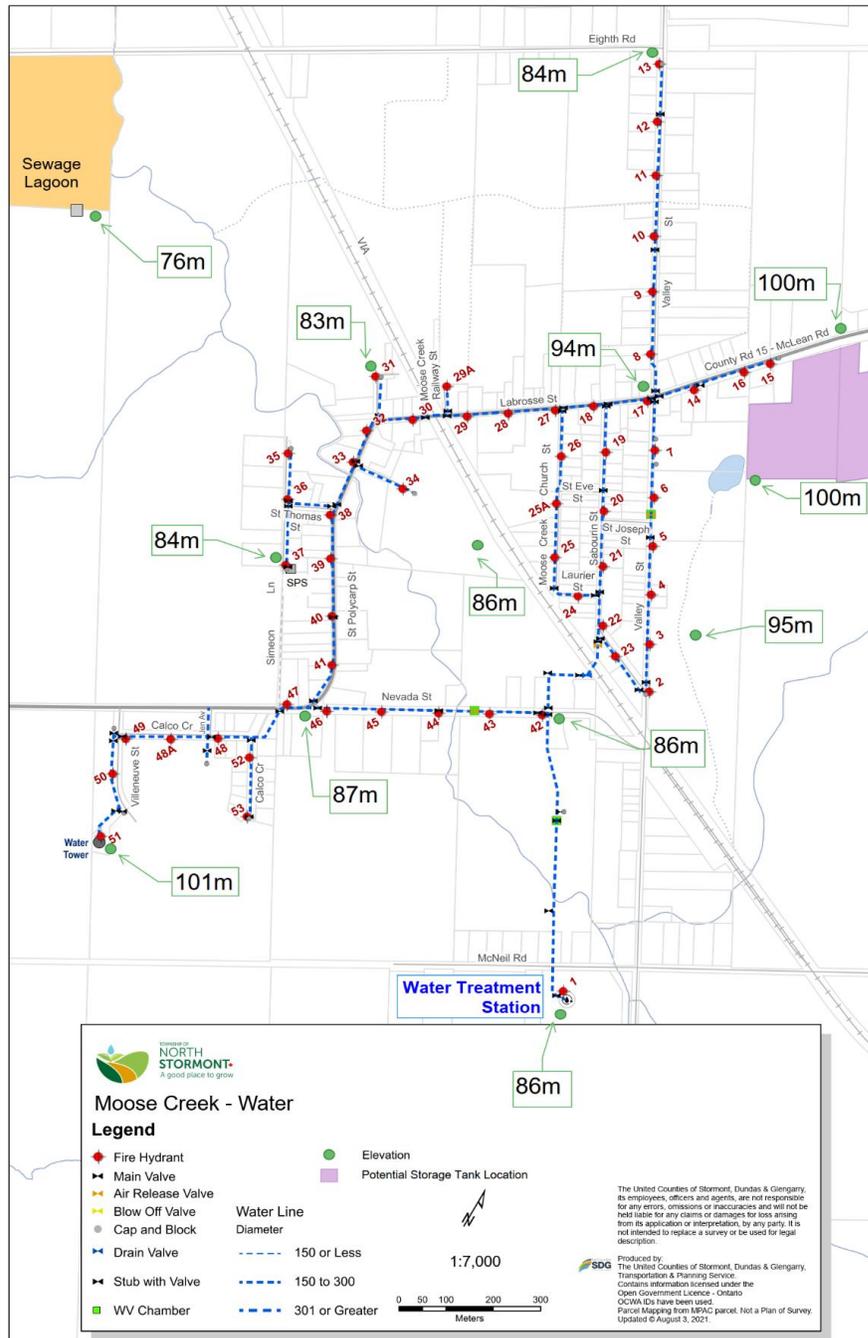


Figure 7.10: Moose Creek Potential Water Storage Location

7.7.2.2 ALTERNATIVE 4B-2: NEW AT-GRADE OR IN-GROUND STORAGE FACILITY

This alternative evaluates at-grade or in-ground storage tanks that can be sized to provide the additional storage capacity needed. The tanks can be installed beside or as an addition to the existing water treatment plants which minimize water conveyance infrastructure and facilitates accessibility for operation and maintenance activities. Two strategies are proposed:

1. In-ground storage tank as an extension of the existing clear wells at Moose Creek and Finch DWS
 - Moose Creek:
 - › The current elevated storage tank (capacity of 622 m³) can provide the fire flow and emergency water storage capacity required in 2051 (required fire flow + emergency storage in 2051 is 629 m³). Then, the new in-ground storage can be sized to provide the remaining volume for equalization storage (at least 230 m³).
 - › The inground storage tank could be designed as an extension of the clearwell. An example is shown in . Typically, water in storage tanks is recommended to be stored between one and three days only to reduce risk of deteriorating water quality and helping to maintain minimum disinfectant residuals. Designing the proposed inground tank as an extension of the clearwell will allow water recirculation in the tank, maintaining the water freshness which is a common challenge with storage reservoirs.
 - › Relocation of the existing HLPs to the extended tank. The HLPs may need to be upsized depending on the hydraulic model that will be needed as part of the design.
 - Finch DWS:
 - › Although the additional storage capacity needed is very small and could be eliminated by water conservation measures, extending the existing clear well would not only provide the additional capacity needed but could also be designed to allow for cell isolation capabilities that would allow for improved maintenance access (in response to the concerns raised by the operators).
2. Above-ground storage tank for Crysler DWS
 - › This option looks at an above-ground storage tanks to be located at the Crysler WTP. The current elevated storage tank has capacity (1,238 m³) to provide fire flow and equalization storage. An above ground tank with a minimum volume of 250 m³ can be used to store the emergency supply volume. For this alternative, pumps in the wells can be replaced with low lift pumps that only pump to the

new storage tank. A new HLP system would need to be installed in a new pumphouse building adjacent to the new tank and its firm capacity could be sized for future peak hour flow (under the assumption that fire flow will continue to be supplied from the elevated tower).

- › Although the size of the tank can be minimized by relying on the existing elevated tank, options for providing redundancy and backup storage when the tower is isolated can be explored during design stage. Currently, no fire flows are available when the tower is offline for maintenance.
- › The design will also need to develop a control strategy that will promote circulation of the water through the new storage tank and the existing elevated tank to maintain adequate turnover.

This alternative scores high in all categories. It is an exempt project under the MCEA process and would not need further Class EA investigation; and it requires minimum technical work as options for buried pre-cast tanks or above-ground tanks purchased as design-build contracts are available.

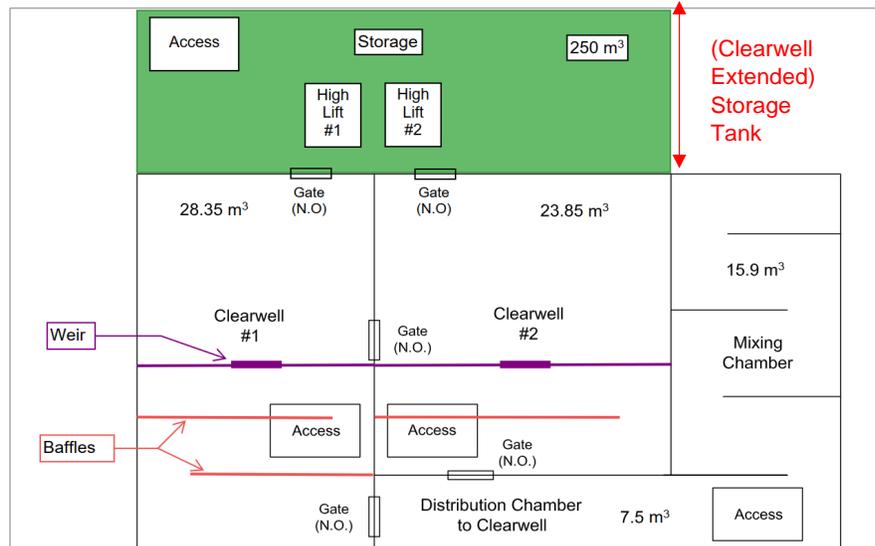


Figure 7.11: Example of extension of Moose Creek’s clearwell with a storage tank

Table 7.10: Detailed Evaluation of Water Storage Alternatives

Evaluation Criteria	4B-1: New Elevated Tower	Rating	4B-2: New At-Grade or In-Ground Storage Facility	Rating
Technical	<ul style="list-style-type: none"> • Re-chlorination maybe required • Provides redundancy for areas located across the river crossing • Schedule B Study required 		<ul style="list-style-type: none"> • Recirculation of water through tank to prevent unused water residual • Potential for increased chlorine contact time • Relocation of high lift pumps • Improves operational and maintenance activities of the existing system 	
Social and Cultural	<ul style="list-style-type: none"> • Requires land acquisition • Ensures water security and redundancy • Aesthetic impacts to surrounding properties 		<ul style="list-style-type: none"> • Use of existing municipal land • Will provide redundancy to systems with clearwell 	
Environment	Unknown environmental conditions until specific site is selected		Construction on existing Municipal site that has been previously disturbed, therefore minimal to no environmental impacts anticipated.	
Economic	Large capital, operational and maintenance cost with minimal benefit that is not justifiable with respect to the severity of the issue		Much lower cost than Alternative 4B-1 while providing operational and maintenance ease; that is, cost that would have been generated from trucking water during emergency or fire flow scenarios can be offset by capital cost of this strategy.	
Overall Score and Summary	Not recommended due to the issue noted above.		Recommended Alternative	

7.8 Preferred Water Servicing Strategy

7.8.1 Overview

Based on the analysis and evaluation presented above, the following subsections summarize the water servicing master plan recommendations for the three urban settlements.

Since water demand is forecasted to exceed rated capacity beyond 2044 for Finch and Crysler, the key strategy to be implemented immediately is water conservation including universal metering. The costs could allow community growth to occur while delaying or eliminating the need for future expansion/upgrades. Reduced water usage can also reduce the required capacity for water storage for all three DWSs. However, to meet MECP guidelines for a redundant and secure water system, the firm capacity of the DWS must be able to provide the projected MDD and, as such, the recommendations are built upon this requirement.

Post implementation of the meters, monitoring of water demands on an on-going basis will not only provide an accurate representation of actual water use versus water loss, but will also allow identifying and updating the timing of future works as required.

7.8.2 Finch DWS

When, following the implementation of water conservation, water demands are confirmed to be climbing above 80% of the existing rated capacity, a hydrogeological investigation is to be undertaken to:

- Consider whether the existing wells could be stressed to allow the permitted capacity to increase slightly. With the existing PTTW capacity limit of 777 m³/d, a 6.5% capacity increase would suffice to meet the 2051 demand projected. A higher target increase of perhaps 20% should be considered to allow for potential longer-term demands; and
- Determine whether a third well at the existing wellfield could allow a small increase in firm well capacity.

Assuming that the hydrogeological investigation yields positive results, a Schedule 'C' Class EA study to increase the rated capacity of the plant will be required. As part of the Class EA, a technical cultural heritage study is required for areas that are part of cultural heritage resources. The Class EA would also include an examination of the existing treatment system, including:

- Capacity of existing H₂S stripping tower, and need for an additional unit;

- Capacity of clearwell for disinfection;
- High lift pump capacity;
- Capacity of existing flocculation tank and pressure filters, and need for additional equipment;
- Consideration of moving the filtration equipment to be upstream of the clearwell; and
- Evaluation of treatment effectiveness and consideration if changes could provide improvements to treated water quality.

Water conservation could likely eliminate the need for additional storage. However, if additional storage is needed, the Class EA study could also consider how best to expand the existing clearwell to accommodate the storage requirements and a technical cultural heritage study would assess any identified cultural heritage resource locations. It is assumed that there is adequate space on site to accommodate the clearwell expansion.

Upon completion of the above, detailed design and construction could proceed.

In addition, ongoing efforts to address Finch's leaking distribution is recommended to continue to estimate the DWS's water loss. The MECP guidelines recommends that DWSs with unaccounted water exceeding 15% of the ADD are to investigate the causes and reduce or eliminate them as much as possible. To determine unaccounted water volumes, water meters are needed to track the total billed water volume and compare to the distributed water volume. As such, implementation of water meters is key to ensuring efficient and sustainable DWSs.

7.8.3 Crysler DWS:

Since firm capacity exceedance is forecasted after 20 years (2044), the recommended strategy can be re-visited in next iteration of the Master Plan to confirm its applicability, especially with large housing development plans that are currently under planning stage. In the next Master Plan, following the implementation of water conservation, when water demands are confirmed to be climbing above 80% of the existing rated capacity, a hydrogeological investigation is to be undertake to:

- Consider whether the existing wells could be stressed to allow the permitted capacity to increase slightly. With the existing PTTW capacity limit of 1,685 m³/d, a 11-15% capacity increase would suffice to meet the 2051 demand projected; and
- Determine whether a third well at the existing wellfield could allow a small increase in firm well capacity.

Post investigation, an engineering study including a Schedule B Class EA or, if possible, a screening to exempt the project from a Class EA is to be undertaken. The project would need to consider:

- Required upgrades, if any, to the existing UV disinfection system and chlorine contact tank; and
- Scope of the identified required upgrades.

The Class EA study could also incorporate scope of the proposed above-grade storage tank including the provision of HLPs to pump the stored water into the distribution system. This design will likely require replacement of the well pumps with pumps of lower TDH capacity. It is assumed that there is sufficient space on the existing site for the new tank and pumping facility.

As part of the Class EA, a technical cultural heritage study would need to be completed to review archaeological resources, BHRs, and CHLs falling within the proposed study areas.

Upon completion of the above, detailed design and construction could proceed.

7.8.4 Moose Creek DWS

When, following the implementation of water conservation, water demands are confirmed to be climbing above 80% of the existing rated capacity, undertake a hydrogeological investigation to:

- Consider whether the three existing wells could be modified to allow a firm capacity of 850 m³/d. It should be noted that the existing PTTW allows for 896 m³/d which is above the 2051 projected demand (850 m³/day), however the current well pumps have only a firm capacity of 604 m³/d at present.
 - › With the replacement of Well No.3 already in the current capital plan, it is recommended that, at minimum, the new well be sized for at least 7 L/s (\cong 600 m³/day). A new 4th well will not be needed if this additional capacity is acquired from the replacement well, as it will increase the DWS's firm capacity (provided only by Well No.2 and No.3) to 860 m³/day when Well No.1 is out of service.
- Determine whether a fourth well at the existing wellfield is required to achieve the required firm capacity.

Following the investigation, undertake an engineer study to develop the details for clearwell expansion and modifications, if deemed necessary, to the high lift pumping. This work would be exempt from Class EA requirements as it is assumed that this work could be done within the existing site.

It was noted by operations staff that there have been water quality concerns. The study should also collect raw and treated water quality samples to determine how significant these concerns are. If water quality is determined to be a problem, then the engineering project may need to expand to a Schedule 'C' class EA to consider alternatives for a new water treatment for the community. As part of this class EA, a technical cultural heritage study would need to be completed.

Upon completion of the above, detailed design and construction could proceed.

7.8.5 Implementation Timeline

If the hydrogeological investigations noted in each investigation determine that no capacity expansion is possible within existing wellfields, then the next step would be for the hydrogeological study to expand to examine other potential wellfield locations in close proximity to the various distribution systems. As noted in Section 6.2, if MCM's screening checklist shows potential for archaeological areas or cultural heritage resources, then required studies are to be completed by licenced/ qualified person(s) and submitted for review.

At the current water usage and without water metering, the anticipated timeline required for the recommendations is provided in Table 7.11.

Table 7.11: Water Master Plan Recommendations Implementation Timeline

Work	0 – 5 years (2025 – 2030)	5 – 10 years (2030- 2035)	10 – 15 years (2035- 2040)	15-20 years (2040- 2045)	20-25 years (2045- 2050)
Water Meters	• Crysler • Finch • Moose Creek				
Hydrogeological Investigation	Finch	Crysler			
Class EA / Engineering Study	Finch	Crysler			
Implementation of Water Supply Strategy	Moose Creek ¹		Crysler	Finch	
Implementation of Water Storage Strategy		Moose Creek	Crysler	Finch	

1: Assuming that hydrogeological investigation for Replacement Well #3 will incorporate the recommendations in Section 7.8.4, such that firm capacity of DWS can meet the projected MDD to 2051.

7.8.6 Chrysler Sensitivity Analysis

Figure 7.13 and Figure 7.12 illustrate the projected water demand if the committed development is populated under the proposed development growth rate. As seen, both rated water supply and water storage capacities are exceeded at least 10 years sooner. Note that infrastructure designed for this scenario is at risk of being significantly oversized if actual population growth does not follow this rate. Oversized supply and storage facilities pose operational and maintenance issues such as inability to maintain fresh water without excessive flushing, and oversized treatment equipment that will not operated efficiently, etc.

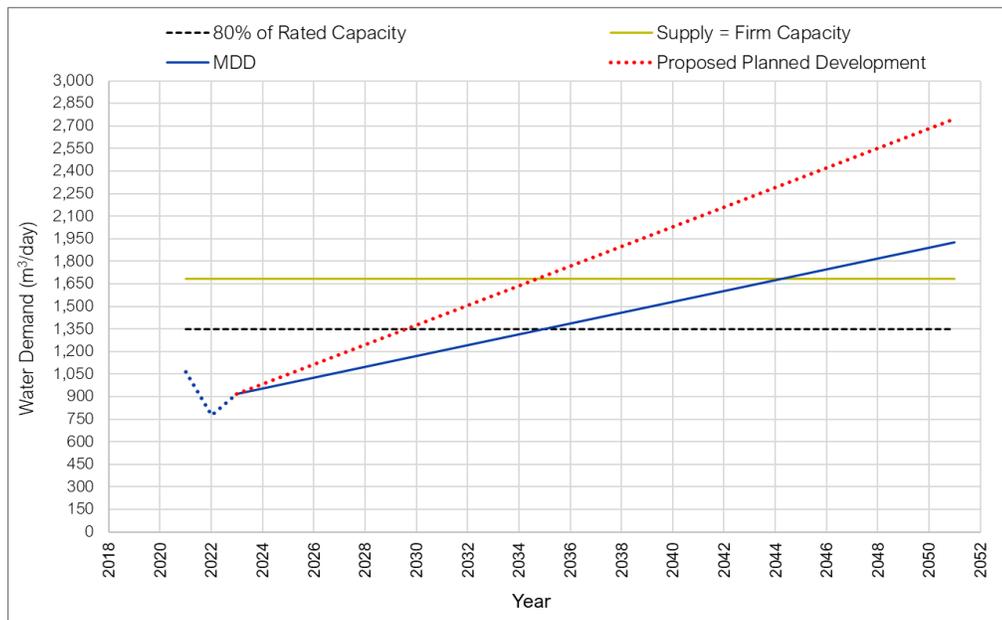


Figure 7.13: Crysler Projected Water Demand under Proposed Planned Development Population Growth Rate Scenario

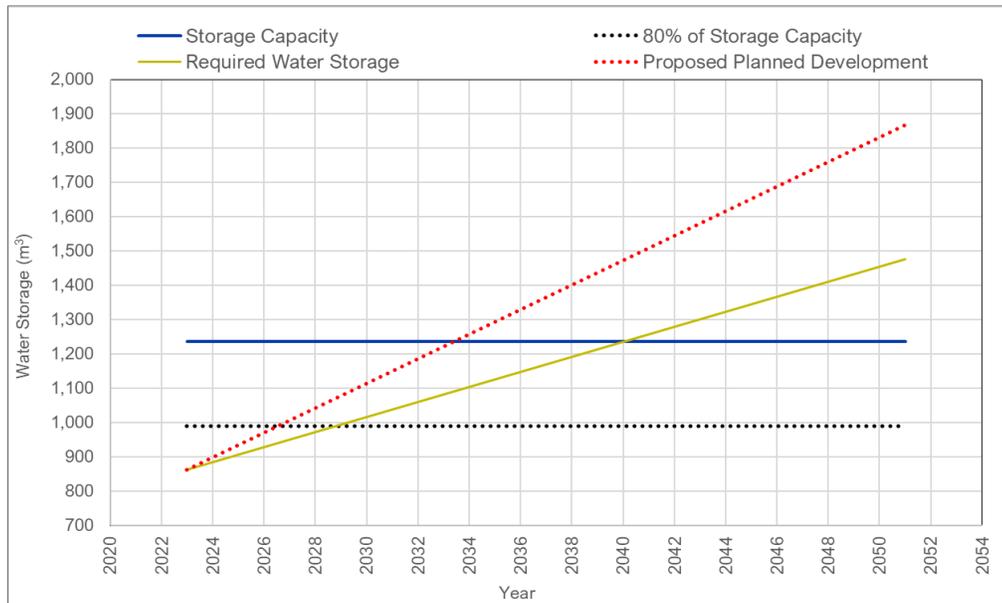


Figure 7.12: Crysler Projected Water Storage Capacity Required under Proposed Planned Development Population Growth Rate Scenario

7.8.7 Climate Change Resiliency

As climate change intensifies, water resource management faces increasingly complex challenges. Variability in rainfall patterns, higher temperatures, and more frequent droughts can cause significant fluctuations in groundwater availability. These changing conditions can directly impact aquifer levels with potential consequences for both water supply and water quality. To sustain reliable water service for the community, it is essential to incorporate climate resilience into long-term planning and operational strategies.

The current system relies on multiple wells within a single wellhead area which can heighten the vulnerability of the overall water supply, as drawdown from one well during a drought period affects the water available in adjacent wells. Such conditions increase the risk of well interference and decrease efficiency. Prolonged drawdown in a single wellhead area can also lead to higher pumping costs, reduced well productivity, and potential impacts on water quality as aquifers experience changes in pressure and flow.

It is essential to consider solutions that address the risks posed by climate change and the associated drops in groundwater levels. Key strategies to bolster resilience include:

1. Diversification of Well Locations: One approach to mitigate the risk of aquifer depletion is to diversify the locations of new wells outside of the current wellhead area. While spreading well locations across a larger geographical area could potentially reduce the drawdown impact, this solution has limitations, including the cost and logistical challenges of finding and developing suitable well sites are substantial. In some cases, it may also be impractical due to land availability and regulatory requirements.
2. Proactive Contingency Planning: Given the impracticalities of significantly diversifying well locations, a robust contingency plan is essential. This plan should include:
 - a) Monitoring and Adaptive Management: Implement real-time monitoring of groundwater levels and aquifer health to enable timely responses to changing conditions. By maintaining a data-driven approach, the utility can adapt operations as drought conditions fluctuate.
 - b) Water Demand Management: Instituting water conservation measures during peak drought periods can help reduce the strain on groundwater resources, extending the usability of the aquifer.
 - c) Supplementary Water Sources: Investigate the potential for supplementary water sources, such as surface water or treated reclaimed water, to reduce reliance on the aquifer during peak demand periods.

It must be noted that strategies a) and b) in point 2 above requires water metering to be able to implement.

8.0 WASTEWATER MASTER PLAN

8.1 Data References

The following references for each wastewater treatment system (WWTS) were used for developing the Wastewater Master Plan;

- Finch
 - › Certificate of Approval, Municipal and Private Sewage Works, Number 1853-5N2QGY (Ministry of the Environment 2003)
- Crysler
 - › Amended Environmental Compliance Approval, Number 9170-9PXLXZ (Ministry of the Environmental and Climate Change), Issued 11/19/2014
- Moose Creek
 - › Amendment to Certificate of Approval, Sewage, Number 3-1555-91-936 (Ministry of Environment and Energy 1997)
- Annual Reports from 2021 – 2023 for each WWTS.

8.2 Wastewater Treatment System Descriptions

8.2.1 Finch - Crysler Wastewater Collection and Treatment System

The village of Finch has only a wastewater collection system which discharges to that of Crysler's. Finch's sewage collection system comprises of three sewage-pumping stations (SPS) - SPS No. 1, 2, and 3 - that collect wastewater from across the village. Since MCEA Approach 1 for Master Plans directs for a broad level of assessment, only the Finch Main SPS - SPS No. 1 that also collects wastewater from SPS No. 2 and 3 - is evaluated. SPS No. 1 has a rated capacity of 14.5 L/s and houses two submersible pumps (one duty/one standby). It discharges the collected flow to a transition manhole chamber located approximately midway between the two urban settlements via a 150mm diameter and 5.4 km long forcemain. From the forcemain, a 250mm diameter and 3.5 km long gravity sewer discharges flow to Crysler Main SPS.

The Crysler sewage collection system has one SPS located at 4 Queen Street that collects wastewater from the entire village as well as from the Finch SPS No. 1. The SPS houses two pumps (Lead/Lag) and has a rated capacity of 46 L/s. It discharges flow to the Crysler Wastewater Treatment Lagoons (lagoons) via a 200 mm diameter and 2.7 km long forcemain. The forcemain was designed for a peak flow of 35 L/s.

The Crysler lagoons are located at 1521 County Rd.12 and comprise of two facultative cells equipped with wind powered aerators and one aeration cell with sixty helical aerators fixed to the cell floor. The helical aerators are connected to two air blowers housed in an aeration building. Phosphorus control is provided by aluminum sulphate dosing which is stored in a chemical injection building. The lagoons currently discharge in spring time only. Table 8.1 provides the capacities of Crysler’s WWTS.

Table 8.1: Crysler WWTS Capacity

Infrastructure	Capacity	Source
Facultative Cell 1	Surface Area = 4.38 ha Operating Volume = 61,700 m ³	ECA #9170-9PXLXZ
Facultative Cell 2	Surface Area = 6.16 ha Operating Volume = 87,900 m ³	
Aeration Cell	Surface Area = 4.14 ha Operating Volume = 148,000 m ³	
Blowers (total)	2,125 m ³ /hr	
Rated Capacity	1,118 m ³ /day	

Table 8.2 provide the lagoon’s spring and fall discharge objectives, and Table 8.3 provide the lagoon’s spring and fall discharge limits.

Table 8.2: Crysler Lagoons Effluent Objectives

Effluent Parameter	Seasonal Average Concentration		Seasonal Waste Loading	
	Spring ¹	Fall ²	Spring ¹	Fall ²
CBOD5	25 mg/L	12 mg/L	7,391 kg	1,349 kg
Total Suspended Solids	25 mg/L	20 mg/L	7,291 kg	2,248 kg
Total Phosphorus	<1 mg/L	0.4 mg/L	<296 kg	45 kg
Total Ammonia + Ammonia Nitrogen	15 mg/L	2 mg/L	4,435 kg	225 kg
Hydrogen Sulfide	<0.26 mg/L	Non-detectable	<77 kg	Non-detectable

1: Spring discharging volume is 295,650 m³ between March 15 – April 30

2: Fall discharging volume is 112,420 m³ between November 4 – December 17

Table 8.3: Crysler Lagoons Effluent Limits

Effluent Parameter	Seasonal Average Concentration		Seasonal Waste Loading	
	Spring ¹	Fall ²	Spring ¹	Fall ²
CBOD5	30 mg/L	15 mg/L	8,870 kg	1,686 kg
Total Suspended Solids	30 mg/L	25 mg/L	8,870 kg	2,811 kg
Total Phosphorus	1 mg/L	0.5 mg/L	296 kg	56.21 kg
Total Ammonia + Ammonia Nitrogen	20 mg/L	6 mg/L	5,930 kg	675 kg
Hydrogen Sulfide	0.26 mg/L	Non-detectable	77 kg	Non-detectable

1: Spring discharging volume is 295,650 m³ between March 15 – April 30

2: Fall discharging volume is 112,420 m³ between November 4 – December 17

8.2.2 Moose Creek Wastewater Collection and Treatment System

The Moose Creek sewage collection system has one SPS located at 37 Simeon Lane. The SPS houses two pumps operated as lead/lag system, and has a rated capacity of 16.6 L/s. It discharges flow via 150mm diameter and 990m long forcemain to the Moose Creek Lagoons. The SPS has a generator in a control building for backup power.

Wastewater treatment is provided in the Moose Creek lagoons located on Lot 22, Concession 7 and comprises of two facultative-aerated lagoon cells equipped with seven aerators. Each cell is 109 m wide x 220m long (total mean area of 5.6 ha) with a maximum operating liquid depth of 2m, providing a combined storage volume of 110,376 m³. The lagoons operate under Certificate of Approval # 3-1555-91-936 which allows annual discharge only to the Moose Creek Drain. Its rated capacity is 302 m³/day.

Table 8.4 provides the lagoon's effluent objectives and permit limits. Effluent TSS has exceeded the objective criteria in 2019, 2020, 2023 and 2024, attributed mainly to algae. Ammonia (TKN) effluent criteria is challenging to meet during colder springs.

Table 8.4: Moose Creek Lagoons CoA Effluent Criteria

Parameter	Objectives		Limit	
	Concentration	Loading	Concentration	Loading
BOD ₅	15 mg/L	166 kg/d	30 mg/L	331 kg/d
Total Suspended Solids	20 mg/L	121 kg/d	30 mg/L	331 kg/d

Parameter	Objectives		Limit	
	Concentration	Loading	Concentration	Loading
Total Phosphorus	<0.5 mg/L	<5.5 kg/d	1.0 mg/L	11 kg/d
TKN	Absent		15 mg/L	166 kg/d
Hydrogen Sulfide	Absent		0.17 mg/L	1.9 kg/d

8.3 Wastewater Design Parameters

8.3.1 Overview

Historical average and maximum day wastewater flows for each wastewater system were obtained from the Annual Reports provided by the Township. Only data from 2021 to 2023 is considered as the connected population information is only available for those three years. The data is then analysed per the MECP *Design Guidelines for Sewage Works* and the *Water Environment Federation (WEF) Design Guidelines*.

The peak flow peaking factor obtained will be used to estimate the future peak flows that will be received at the main SPSs.

8.3.2 Wastewater Treatment

Table 8.5 summarizes the historical data used to estimate the per-capita (per person) wastewater flow and peak flow in each urban settlement. The Crysler WWTS flows and connected population are the combined values for the villages of Finch and Crysler, representing the combined system.

8.3.3 Wastewater Collection

Wastewater collection systems comprise of the sanitary sewers and the SPSs which receive peak instantaneous flows. Per the MECP guidelines, the firm capacity (with largest pump out of service) of the SPS is to be sized for the projected peak flows.

Peak flows are typically recorded on a 5-minute interval basis at the main SPSs that discharge to the downstream wastewater treatment facilities. In the absence of this data, peak flows for all three villages can be estimated using WEF guidelines as follows:

- Typical maximum day peaking factor for corresponding ADF per WEF guidelines is 3.0 for all three WWTSs.
- Table 8.5 shows that the actual maximum day peaking factors recorded is plus 0.7 – 1.1 larger, especially in the last two years (2022 and 2023) which shows an increasing trend in the peak flows.

- Therefore, to obtain a peak flow peaking factor that considers the above variance from typical factors, the peak flow peaking factor provided by WEF is increased by 1.0 which is the average additional increase observed in the *actual (observed) – typical* maximum day peaking factors (average of 0.7 to 1.1).
- The resulting peak flow peaking factor used for estimating the historical peak flows are provided in the table.

The peak flow peaking factor obtained will be used to estimate the future peak flows that will be received at the main SPSs.

8.3.4 Wastewater Treatment

Table 8.5: Historical Wastewater Flow Analysis

Year	ADF (m ³ /day)	MDF (m ³ /day)	Peaking Factor ¹	Connected Population ²	Per-capita Flow (L/cap/day)	Peak Flow (L/s)
Finch						
2021	149	437	2.9	591	252	Peaking Factor per WEF = 5.5
2022	157	678	4.3	603	260	
2023	180	718	4.0	616	292	
Average	162	611	3.7	-	268	6.5
Finch - Crysler						
2021	558	2,000	3.6	1,704	327	Peaking Factor per WEF = 5.5
2022	567	2,280	4.0	1,757	323	
2023	630	3,030	4.8	1,810	348	
Average	585	2,437	4.1	-	333	6.5
Moose Creek						
2021	228	742	3.3	575	397	Peaking Factor per WEF = 5.5
2022	240	863	3.6	588	408	
2023	252	1,088	4.3	601	420	
Average	240	898	3.7	-	408	6.5

1: Peaking Factor is taken as the ratio of the MDD to the ADD.

2: Values are not rounded, to allow providing the actual numbers used to calculate the per-capita factors.

The data is illustrated graphically in Figure 8.1 and suggests that per-person wastewater flow is increasing in North Stormont. Although not the only factor, lack of water metering can be a cause of this trend.

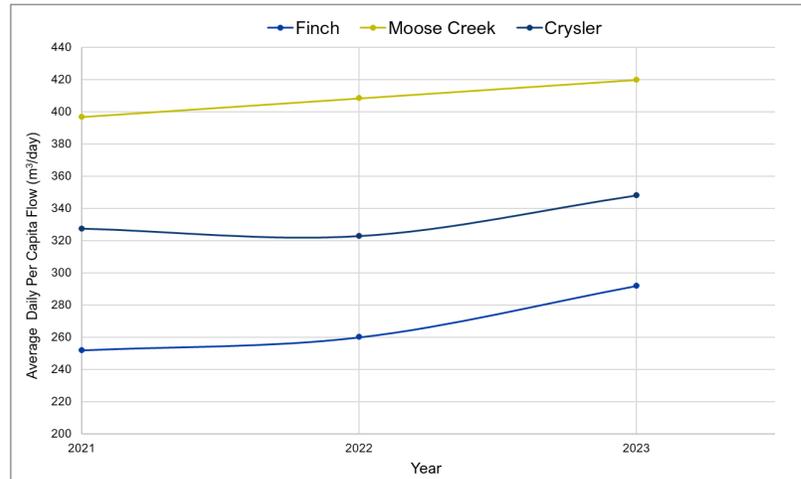


Figure 8.1: Historical Residential Wastewater Flow

8.4 Opportunities and Constraints

8.4.1 Wastewater Flow Projections

Table 8.6 provides the future wastewater flows for each urban settlement using the historical average per-capita wastewater flow, the forecasted population to 2051 provided in Table 5.1, and the committed population provided in Table 5.2.

Table 8.6: Forecasted Wastewater Flow to 2051

Parameter	Urban Settlement	Finch	Crysler (HGS)	Moose Creek
Average Daily Flow				
A = 2051 Serviced Population		885	3,060	1,080
B = Per-Capita Flow (m ³ /day)		0.268	0.333	0.408
A x B = C = 2051 ADF (m ³ /day)		237	1,018	438
Peak Flow				
D = 2051 ADF (L/s)		2.7	11.78	5.07
E = Peak Flow Peaking Factor (Table 8.5)		6.5	6.5	6.5
D x E = F = 2051 Peak Flow (L/s)		17.8	76.6	32.9
Committed Capacity				
G = Committed Population		N/A	915 ¹	30
H = Per-Capita Flow (m ³ /day)			0.333	0.408

Parameter	Urban Settlement	Finch	Crysler (HGS)	Moose Creek
G x H = I = ADF from Committed Population (m³/day)			305	12
J = Current ADF (m³/day)¹			585	240
I + J = K = Total Committed Capacity (m³/day)			890	252
L = WWTS Rated Capacity			1,118	302
L – K = M = Remaining Available Capacity (m³/day)			229	50

1: Includes committed population in both Finch and Crysler (36 + 875 people, refer to Table 5.2)

Figure 8.2 to Figure 8.6 illustrate the wastewater peak and average daily flow trends projected to 2051 for the three urban settlements

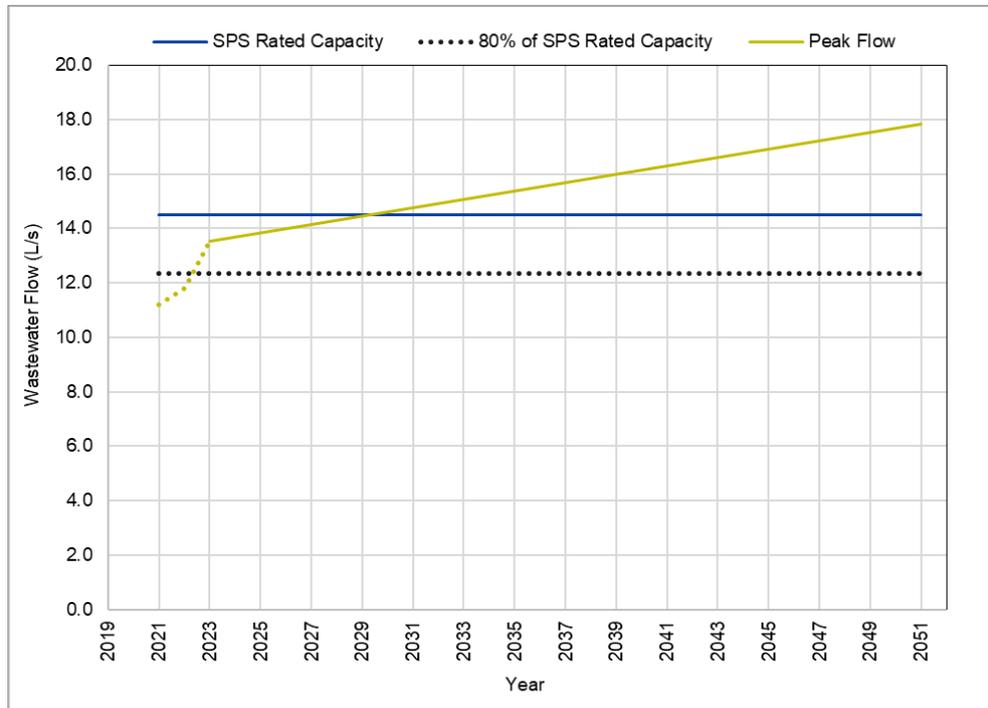


Figure 8.2: Finch SPS - Projected Peak Flow

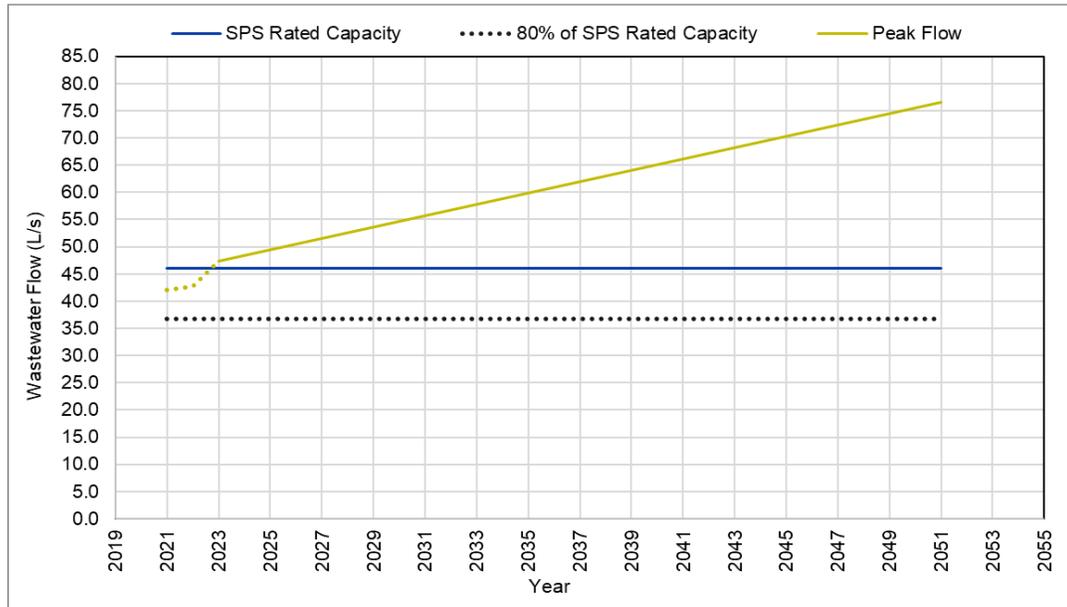


Figure 8.4: Crysler SPS - Projected Peak Flow

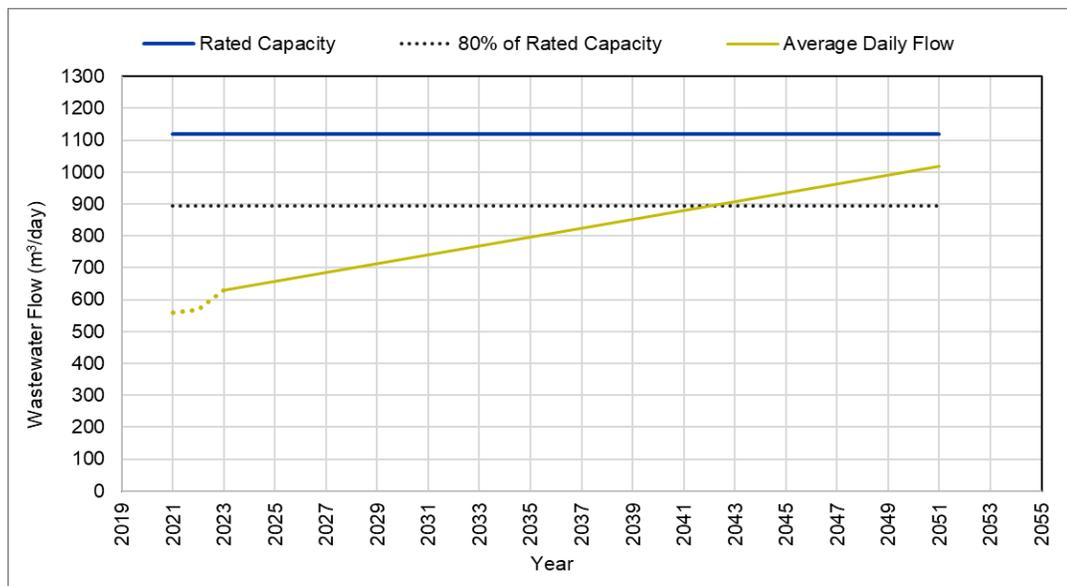


Figure 8.3: Crysler Lagoons - Projected ADF

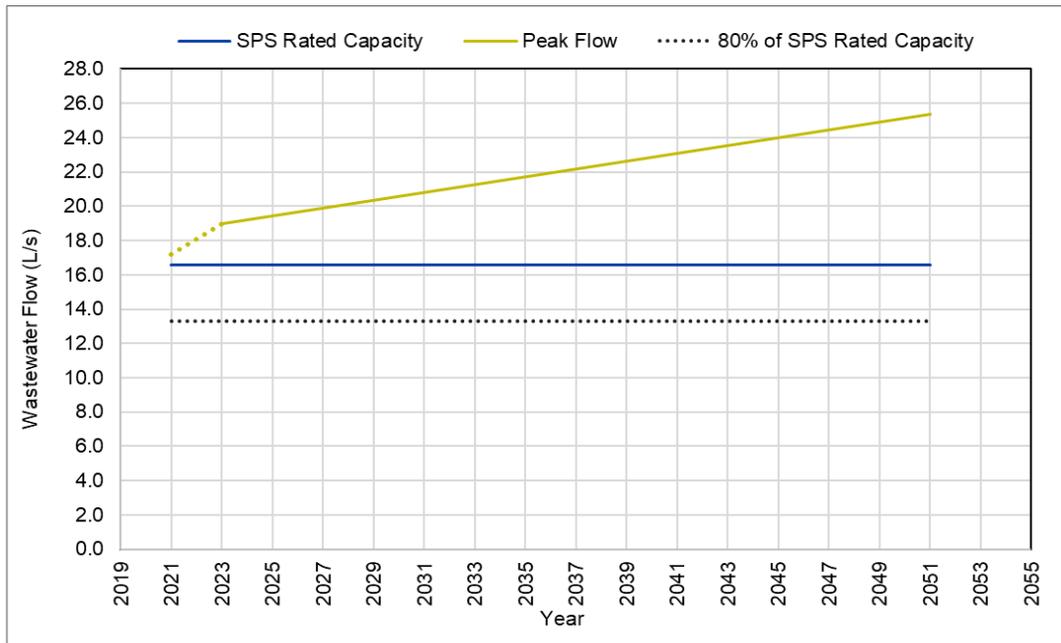


Figure 8.6: Moose Creek SPS - Projected Peak Flow

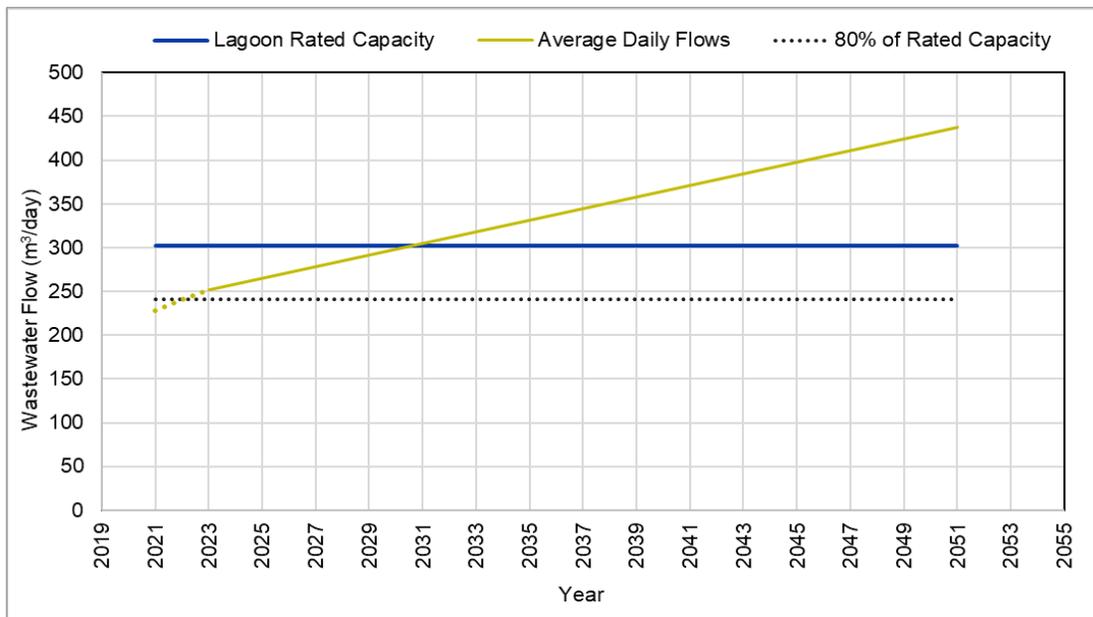


Figure 8.5: Moose Creek Lagoons - Projected ADF

8.4.2 Servicing Constraints

Table 8.7 provides the projected capacity deficits that will result in servicing constraints for each of the WWTSSs.

Table 8.7: WWTSS Servicing Constraints

Parameter	2051 Flow	Rated Capacity	Surplus / (Deficit)
Urban Settlement	Collection System – Peak Flows (L/s)		
Finch	16.5	14.5	(-2.0)
Finch-Crysler	70.7	46.0	(-24.7)
Moose Creek	32.9	16.6	(-16.3)
Urban Settlement	Wastewater Treatment Lagoons – ADF (m³/day)		
Finch- Crysler	1,018	1,118	100
Moose Creek	438	302	(-136)

Additionally, the following operational and maintenance issues were communicated from the system operators:

1. Sewage collection system:
 - Finch
 - › Neither of the SPSs across the village have back up power. During power outages, sewage has to be hauled offsite manually.
 - › SPS No. 1 has a history of flooding during peak flows which requires excess sewage to be trucked offsite.
 - › The forcemain transition manhole chamber is located in a farmer’s field and has limited access. Operations staff have noted odor issues that can be attributed to H₂S presence. The manhole structure shows visual signs of poor concrete condition (concrete pitting) and a corroded access ladder that needs to be replaced as it currently unsafe to be use.
 - › The outlet manhole beside the creek gets flooded during peak flows due to leaking cover.
 - › The SPSs across the village feeding the main SPS No. 1 have maintenance challenges. Due to the size of the wet wells, accessing to the bottom is difficult and, by extension, removing the pumps for inspection and maintenance is also challenging.

- › Control panels for the SPSs are due for replacement due to deteriorating conditions. They are exposed and are prone to heating issues during hot weather. However, this does not cause any monitoring issues.
 - Crysler
 - › In April 2023, about 8 hours of haul trucks were needed to handle peak flows which shows that the SPS is significantly undersized for current flows. The general location of the station is also not convenient for the trucks access.
 - › Additionally, due to lack of routine exercising maintenance on the isolation valves in the SPS, the operability condition of these valves is unknown. There is also no automatic duty rotation of the pumps and the operating system is old. The standby generator at the SPS is old and is sized to operate only one pump at a time.
 - Moose Creek SPS: structural, and process and mechanical equipment deterioration due to aging, which poses safety hazard during operations and maintenance.
2. Wastewater Treatment Lagoons
- Crysler Lagoons
 - › Structural deterioration of the inlet structure to the facultative cells.
 - › Both facultative cells have excessive vegetation growth.
 - › South east berm of facultative Cell No. 2 is lower than the overflow elevation in the effluent chamber.
 - › Equipment including aeration system are past their service life.
 - Moose Creek Lagoons: the existing blowers feeding the aeration system in the facultative aerated lagoons need to be replaced with larger capacity blowers.

8.5 Development of Alternatives

8.5.1 Overview

The following alternatives strategies are identified as potential servicing solutions for the three WWTSSs.

1. Do Nothing;
2. Limit Community Growth;
3. Infiltration and Inflow Control and Reduction;
4. Upgrade Existing Wastewater Collection and Treatment Facilities; and
5. Expansion of Wastewater System via New Facilities.

Alternative Strategies 1 and 2 are not assessed further following the same reasonings provided for the Water Master Plan. Screening of the long-list of strategies and evaluation of the short-listed strategies follows the same methodology as that of the Water Master Plan.

8.5.2 Alternative 3: WWTS Infiltration and Inflow Control and Reduction

This alternative solution considers implementation of programs to reduce extraneous wastewater flows into the wastewater collection system. Exposure to extraneous flow can arise from the following:

- Groundwater infiltration into sewer pipes through cracked sewer pipes;
- Rainfall-derived inflow into sewer systems through foundation drain connections, roof eaves trough connections, manhole lids, storm sewer interconnections, etc., and;
- Rainfall-derived infiltration through cracked sewer pipes and manholes.

Reduction of extraneous WWTS infiltration and inflow throughout the three urban settlements will help reduce future flow requirements, reduce sewage pumping and wastewater treatment plant operational costs, and regain wastewater treatment plant capacity thereby extending its service life. However, this strategy alone cannot address the PaP statement or address Moose Creek's forecasted capacity deficit on its own, as it is highly unlikely to reduce the forecasted sewage volume to below the collection system's rated capacity for Moose Creek lagoons. This strategy also has very low cost/benefit factor and may have negligible impact to the current flows. As such, this strategy is recommended to be incorporated to comply with the general sustainability goals in combination with the preferred strategy.

8.5.3 Alternative 4: Upgrade Existing Wastewater Collection and Treatment Facilities

This alternative looks at increasing the capacity of the existing facilities by retrofitting them using technology or optimizing their operational settings.

For the wastewater collection system, capacity exceedances are projected for the main SPSs in all three WWTS; therefore Alternative 4A will evaluate upgrading the SPS for expanding the identified bottlenecks in the wastewater collection system.

For wastewater treatment, only the Moose Creek lagoons are forecasted to exceed the capacity; for which the following options to expand its rated capacity while meeting anticipated stringent effluent limits will be explored:

- Alternative 4B-1: Treatment Optimization via Technology; or
- Alternative 4B-2: Modified Lagoon Operation.

The alternative strategies for the lagoons are developed considering two key points below:

- Since the Moose Creek Lagoons capacity need to be upsized to accommodate growth, an Assimilative Capacity Study (ACS) will be required which will determine the capability of the receiving stream to accommodate the increased flows as well as the effluent characteristics of the system. It must be noted that since the establishment of the current effluent limits in 1997, effluent requirements have become more stringent in response to provincial and federal environmental protection goals. It is, therefore, highly likely that the ACS will require lower effluent limits that must be achieved by the Moose Creek lagoons than currently established in the 1997 CoA.
- The wastewater influent characteristics (specifically BOD₅ and TSS) were projected to 2051 to determine the actual additional capacity needed. The preliminary calculation results show that while the existing lagoons do have the surface area needed to provide treatment for the 2051 BOD loadings per MECP guidelines, they do not have the storage volume needed to provide the one year hydraulic detention time (to be able to discharge annually). As such, either additional storage volume or Hydrograph Controlled Release (HCR) is needed to address this issue. Discharge from HCR lagoons are based on the flow conditions in the receiving stream, where effluent discharge is allowed during high flow conditions that can occur throughout the year.

Additionally, exceedance of TSS limits in the last two years where flows are at 80% of the rated capacity indicates that the lagoons may not be able to accommodate any increase in flows. With continued exceedances, a freeze on additional connections may be ordered by the MECP until the issue is resolved. As such, the Township is recommended to undertake the Schedule C Class EA required for the lagoon capacity expansion prior to approving any additional growth and development within the village.

8.5.4 Alternative 5: Expansion of the Wastewater System via New Facilities

8.5.4.1 OVERVIEW

This alternative looks at options for addition of collection and treatment facilities to expand the capacity of the WWTSS.

- Alternative 5A looks at implementing a new SPS to collect the excess flows.
- Options for the Moose Creek lagoons are:
 - › Alternative 5B-1: New Facultative Lagoon
 - › Alternative 5B-2: Convert to Mechanical Treatment Facility

8.5.4.2 ALTERNATIVE 5A: NEW SEWAGE PUMPING STATION

This strategy revises the option of replacing the SPSs in all three villages. The new SPS's firm capacity is to be sized for the design peak flow. This strategy will address the existing operational and maintenance issues, and existing and future capacity issues.

Due to the large capital cost, constructability challenges as existing SPS can only be decommissioned once the new SPS is built adjacent to it, and a requirement for a Schedule B Class EA, this strategy scores low on technical and economical categories. Although this strategy maybe implemented if the existing SPS conditions warrant a complete replacement, this strategy is not recommended if the concrete condition is good or needs only minor rehabilitation.

8.5.4.3 ALTERNATIVE 5B-1: NEW FACULTATIVE LAGOON

This strategy comprises of a new third lagoon to increase treatment rated capacity. Options between aerated facultative lagoon or an aerobic cell depends on the ACS results. Proceeding with the conservative assumption that more stringent effluent limits will be imposed which will continue limiting discharge to once a year, the third cell can be a facultative lagoon that will have to be sized to provide storage volume for the excess flows.

Aeration treatment may not be required as the two existing aerated facultative lagoons have ample solids loading capacity for biological treatment and nutrient removal. The third cell is needed to store the flows prior to spring discharge. Therefore, a condition assessment of the existing aeration system in the facultative lagoons and their ability to meet the future loadings is recommended as part of this strategy.

This option scores the lowest on all four categories due to the following:

- The new facultative lagoon will require a minimum additional 5.4 ha to meet the detention volume needed for annual discharge. This is a significantly large capital cost compared to the other options;
- Under the MCEA, this project will require a Schedule C Class EA with cultural heritage resources studies due to the large area of additional land required as detailed in Section 6.2;
- Land acquisition may be needed for the new cell plus additional permit requirements for its relatively larger environmental impact;
- This option does not optimize the operation of the existing facility to accommodate the additional flows and the solution is limited to meeting the 2051 flows. Beyond this year, any additional flows cannot be accommodated by these upgrades and the plant will need to be upgraded again; and

- The cost of the lagoon and associated aeration system is estimated at \$10 Million.

If the ACS permits HCR discharge, a complete-mix aerated pond (aerobic cell) can be implemented which will require significantly less area (about 0.05 ha based on plug flow design). The plant can mimic the Chrysler Lagoon system with initial treatment provided in the upstream facultative lagoons followed by additional treatment in the aerobic cell. A tertiary filter system or a settling pond will highly likely be required post-lagoon for TSS removal. However, all disadvantages listed above except bullet point 1 is still applicable to this option, as the reduced cost from the smaller cell will be offset by the capital and operation costs of the aeration system needed for the aerobic cell. As such, this solution does not meet the PaP statement and is not evaluated further.

8.5.4.4 ALTERNATIVE 5B-2: CONVERT TO MECHANICAL TREATMENT FACILITY

This alternative comprises of decommissioning the existing lagoons as treatment units and construct a new full-scale mechanical treatment plant, rated for the 20-year design flow. This mechanical treatment plant will provide activated sludge treatment based on the assumption that the ACS results will approve HCR discharge. The activated sludge plant can meet the more stringent effluent limits anticipated to be the condition for allowing HCR discharge. Although several options can be implemented, a practical configuration is a Sequencing Batch Reactor (SBR) plant, as it reduces the number of tanks required for separate process treatments. The proposed plant configuration for an SBR plant will require the following:

- Headworks facility for raw wastewater screening grit removal;
- At least two SBR tanks for biological treatment and nutrient removal;
- Effluent filtration provided by cloth media filters (if required);
- Effluent disinfection prior to discharge; and
- The existing lagoons can be used for sludge management.

This alternative scores low on all four categories for the following reasons:

- Estimated cost of this facility is approximately \$30 Million including land acquisition;
- Significantly greater energy consumption; and
- Complex operational and maintenance requirements requiring operator training.

Although this strategy is a long-term solution as a mechanical plant can be optimized/upgraded to treat flows beyond the study horizon of 2051, the projected flows are low enough that the capital cost and project requirements cannot be justified. As such, this strategy is not evaluated further.

Table 8.8: Long List of Alternatives and Screening

Alternatives		Does the alternative address the Problem & Opportunity Statement?	Is the alternative technical and economically feasible?	Can the alternative be implemented without significant impacts?	Summary
1	Do Nothing	✗	✗	✗	Not an acceptable solution and is not evaluated further.
2	Limit Growth	✗	✓	✗	Not an acceptable solution and is not evaluated further.
3	Infiltration and Inflow Control and Reduction	✗	✓	✓	This alternative on its own is not acceptable as a complete solution. It will be recommended as a general sustainability goal.
4	Upgrade Existing WWTS	✓	✓	✓	Wastewater Collection System: <ul style="list-style-type: none"> ➤ Alternative 4A: Upgrade Existing SPS Wastewater Treatment Lagoons: <ul style="list-style-type: none"> ➤ Alternative 4B-1: Treatment Optimization via Technology ➤ Alternative 4B-2: Modified Lagoon Operation
5	Expand the Existing WWTS	✓	✗	✗	Wastewater Collection System: <ul style="list-style-type: none"> ➤ Alternative 5A: Replacement with New SPS Wastewater Treatment Lagoons: <ul style="list-style-type: none"> ➤ Alternative 5B-1: New Facultative Lagoon ➤ Alternative 5B-2: Mechanical Treatment Facility Will require land acquisition, high capital costs, permit and other requirements. Therefore, not evaluated further.

8.6 Post-Screening Results

Based on the screening above, the following alternatives did not meet the PaP statement, or were not feasible against the evaluation criteria and were not considered further:

- Alternative 1 – Do Nothing
- Alternative 2 – Limit Community Growth
- Alternative 3 – Infiltration and Inflow Control and Reduction
- Alternative 5 – Expansion of the Wastewater System

Based on the screening criteria in Section 8.5, Only Alternative 4 – *Upgrade Existing Wastewater Collection and Treatment Facilities* met the PaP statement and were determined to be feasible against the evaluation criteria.

For the wastewater collection system, the only strategy under Alternative 4 is 4A: Upgrading the Existing SPS. As such, this is proceeded with as the preferred strategy.

The strategies considered under Alternative 4 for the wastewater treatment system (lagoons) are evaluated per the MCEA based criteria established in 6.0 to determine the preferred strategy that addresses the identified constraints.

8.7 Detailed Evaluation of Post-Screened Alternative Strategies

8.7.1 Alternative 4B-1: Treatment Optimization via Technology

This alternative strategy is based on the assumption that the ACS results will require HCR discharge with more stringent effluent limits, allowing to retain the existing lagoons for storage of the flows during low flow periods in the receiving drain. This strategy comprises of upgrading the existing lagoons with wastewater treatment technologies aimed to enhance biological treatment and nutrient removal within the reduced treatment times and lower effluent limits. Two types of technologies that operate differently are assessed in the following subsections. However, additional technologies that have similar functions can be explored in the Class EA study that will have to be undertaken for approval of the WWTS's capacity expansion.

The common advantages of this alternative, irrespective of the technology used, is:

- The use of the existing lagoons is maximized and no land acquisition is needed for the upgrades; and
- Lower capital, operational (energy), and maintenance costs compared to converting to a mechanical treatment plant.

Irrespective of the effluent limits established in the new ECA, a tertiary filter system will highly likely be needed to address the existing TSS issue, especially for fall discharge due to the increased algae growth during summer months. As such, either of the technologies below will be followed by a tertiary (filter) treatment system. The recommended filter technology for the Moose Creek Lagoons is Cloth Media Surface Filtration technology which can meet effluent TP limits of 0.3 mg/L or less with low capital cost, low operational cost and complexity, and small footprint to satisfy spatial constraints. However, the actual required technology will depend on the ACS results. The estimated cost of the cloth media filters including associated facility building is approximately \$2 Million.

8.7.1.1 INTEGRATED FIXED-FILM ACTIVATED SLUDGE (IFAS)

IFAS is a type of attached growth treatment system that can be installed within the existing lagoons itself. Although several types of technologies for this treatment type exist, Entex Technologies was used to assess this option for this Master Plan. Entex's offers the WavTex EmTexile second generation moving media sheets complete with an integral aeration system. Attached biomass on the flex media sheets can treat double the effective MLSS concentration and the independently moving sheets allow for excellent oxygen and substrate transfer. Entex's Octopus floating aeration system provides fine bubble aeration for biological treatment and nutrient removal.

Advantages of this strategy includes:

- Minimal to no maintenance requirements for 20+ years of operation, except for replacement of the fine bubble disc diffusers in the aeration system;
- Ease of operation and maintenance as the system is designed to be removed from the top;
- Can increase the lagoon treatment capacity as required beyond 2051 by increasing the number of units; and
- Low carbon footprint, resilient to climate change, and low impact on environment since no additional site space is needed.

To prevent clogging of the aeration system, pre-treatment (screening removal) is recommended. Retrofitting of the influent distribution chamber to a preliminary treatment unit (housed with a bar screen) can be explored to save costs on the headworks structure.

Although fixed film technologies with much lower capital and operational costs exist, the ability of these technologies to meet both capacity deficit and effluent limits may be difficult. However, those are recommended to be explored in the Class EA if this alternative is selected as the preferred strategy for the Moose Creek WWTS upgrades.

The system is estimated to cost approximately \$2 million for the IFAS system alone. The headworks unit cost estimate is \$300,000.

8.7.1.2 SUSPENDED ATTACHED GROWTH REACTOR (SAGR)

SAGR is a patented process designed to provide nitrification (ammonia removal) in cold to moderate climates. The SAGR is a clean gravel bed with evenly distributed wastewater flow across the width of the cell, and a horizontal collection chamber at the end of the treatment zone. Linear aeration throughout the floor of the SAGR provides aerobic conditions that are required for nitrification. The gravel bed is covered with a layer of wood chips or shredded rubber tires for insulation. The SAGR system is designed based on the assumption that the discharge window is flexible to be changed from 15 days in April to more than 60 days starting in May or anytime in Fall. This is due to the fact that starting the discharge period in April reduces the SAGR efficiency due to low growth rate of nitrifiers during the cold season.

The proposed system would consist of the following processes and technologies:

- Converting the existing mechanically aerated facultative lagoons to facultative lagoons; thereby saving costs of aeration system which is typically 60% of the operational cost of lagoons.
- Retain the existing two (2) cell lagoon system for BOD and TSS removal operated in parallel. The existing alum system is to be retained for phosphorus removal.
- Implement two (2) SAGR cell for nitrification (ammonia removal), BOD, and TSS polishing following the lagoon cells. The SAGR process will also provide significant reductions in Fecal and Total Coliform; and
- Implement a new blower building to accommodate SAGR blowers.

A quotation was obtained from Nexom for the SAGR system including the potential location for the treatment cells. The cells can be installed in the area between the lagoons and Concession 8th road. Instead of a blower building, the PD blowers with weather-proof enclosures can be installed outside adjacent to the cells. The quote for the SAGR unit is \$2,300,000, which does not include construction of the basins and associated piping to and from the lagoons, upgrades to the blower building (if required), and engineering fees.

8.7.2 Alternative 4B-2: Modified Lagoon Operation

This strategy comprises of modified the lagoon's operation by incorporating conventional extended-aeration treatment (CEA) which is a type of conventional activated sludge treatment. The proposed strategy comprises of adding an extended aeration tank prior to the lagoons for biological treatment and nutrient removal. The proposed concrete tank is to

be sized to provide a minimum hydraulic retention time of 15 hours which will require a storage volume of 300 m³. The tank itself can be placed between the two lagoons at the influent side such that treated effluent can gravity discharge to the lagoons with minimal conveyance infrastructure.

This configuration will require the following unit processes:

- New headworks facility to protect the downstream aeration equipment;
- Fine bubble diffusers in the tank and associated blower(s);
- Return activated sludge (RAS) pump(s) for recycling of activated sludge from the lagoons to the tank; and
- Tertiary treatment provided by cloth media filtration prior to discharge.

Since the existing lagoons have the capacity to treat the loadings, they can be operated as facultative lagoons with no mechanical aeration treatment. This will save operational costs as aeration systems typically account for 60% of the cost in a lagoon treatment system.

Cost efficient strategies for the unit processes can include:

- The existing blower building can house one positive displacement (PD) blower and the RAS pump. Only one blower and one RAS pump may be sufficient, as the CEA treatment can be brought offline for a short duration (less than a month) if the two equipment need to be shutdown for maintenance reasons; and
- The headworks facility can comprise of a screening unit inside an FRP enclosure instead of a building.

The estimated cost for this strategy is \$6 Million. This alternative strategy scores neutral to high in all categories because it is an effective and robust solution to addressing the capacity deficit issue as it not only provides significant capacity increase but also provides flexibility for treating increased flows well beyond the study horizon of 2051. Packaged CEA systems can be implemented which reduces technical requirements of the project and may also reduce the capital cost. Use of the existing assets on site (no decommissioning required) and no additional land acquisition while meeting anticipated stringent ECA effluent criteria are additional advantages of this option. Although the mechanical operation of the proposed unit processes generally has higher energy consumption relative to natural systems, the energy consumption is anticipated to be similar to Alternative 4B-1.

Table 8.9: Detailed Evaluation of Wastewater Treatment Alternatives

Evaluation Criteria	Alternative 4B-1: Upgrade Existing Lagoons	Rating	Alternative 4B-2: Modified Lagoon Operation	Rating
Technical	<ul style="list-style-type: none"> New proposed technology requires operator training and replacements after its useful life Further capacity expansion is possible through addition of more units of the type of technology selected Technologies generally have more complex operational and maintenance requirements as compared to conventional treatment systems Modifications are required within the lagoon cells which can pose construction (implementation) difficulties with large room for errors and risks. 		<ul style="list-style-type: none"> Ease of construction No complex technology/relatively simple operation Ample capacity for bypass for maintenance requirements Additional unit processes and flow cycling (RAS) that can pose operational difficulties 	
Social and Cultural	All proposed upgrades can possibly fit within the municipal property and no land acquisition is anticipated. However, potential impacts to cultural heritage resources is unknown and should be assessed per Section 6.2			
Environment	<ul style="list-style-type: none"> Depending on the technology selected, environmental impacts are anticipated if additional land is required (for e.g. areas for SAGR cells) However, generally the technologies proposed can be implemented within the existing municipal site. 		<ul style="list-style-type: none"> No land acquisition required Impacts due to construction can be addressed by industry recommended construction practices 	
Economic	Capital costs lower than Alternative 4B-2		Larger capital costs but can be offset by lifecycle costs of Alternative 4B-1	
Overall Score and Summary	At the Master Planning stage, both options are viable and can meet the long-term goals of the Township. Both options will require a Class B study that must include an Assimilative Capacity Study which can then assist further in selecting the preferred strategy between the two.			

8.8 Preferred Wastewater Servicing Strategy

8.8.1 Wastewater Collection System

The proposed works include replacing the existing pumps with two larger pumps that are sized for the 2051 peak flows. The pumps are to be operated in duty/standby mode so that the firm capacity of the SPSs will equal the design peak flows which aligns with MECP guidelines. The following methodology was used to check the SPS's existing wet well configuration to ensure it can be modified for the increased rated capacity:

- A system curve from the SPS to its destination (transition manhole for Finch and lagoons for Crysler) was generated for the forecasted peaks;
- Maximum velocity in the existing discharge forcemains were checked to ensure it is below 3.0 m/s; and
- The control elevation details of the pumps obtained from SPS drawings was used to estimate the required active volume of the wet well to limit the pump start frequency to a maximum of 10 times an hour. Although the MECP Guidelines recommend wet well active volumes to be sized for 6 pump starts an hour only, pump motors below 50hp can accommodate 15 starts/hour per most well-known pump manufacturers including Xylem Inc. and Sulzer. Operating levels under the following two scenarios were created:
 - › Scenario 1: using the *Lag Pump Start* level as the duty pump start level and the *Low Water Level Alarm* level as the duty pump stop level; and
 - › Scenario 2: Using the *Lead Pump Start* level as the duty pump start level and the *Stop All Pumps* level as the duty pump stop level.

An example of the two scenarios is depicted in Figure 8.7. It must be noted that both scenarios above consider only constant speed pumps. With VFD pumps, it maybe possible to further increase the rated capacity of the SPS to accommodate peak flows beyond the study horizon of 2051 of this Master Plan.

For both scenarios above, the analysis shows that both SPSs have the capacity to provide the active working volume with the current pumps operating levels while maintaining the maximum pump start frequency to 10 times an hour for the future peak flows. Therefore, this strategy allows the SPS to be re-rated to service future growth (and possibly beyond) with minimal capital costs (only related to pumps upgrades) while improving operation and maintenance conditions. Additionally, this project is classified as Exempt under MCEA Process. As such, this strategy scores high in all four categories and is proceeded with as the preferred strategy for the collection system.

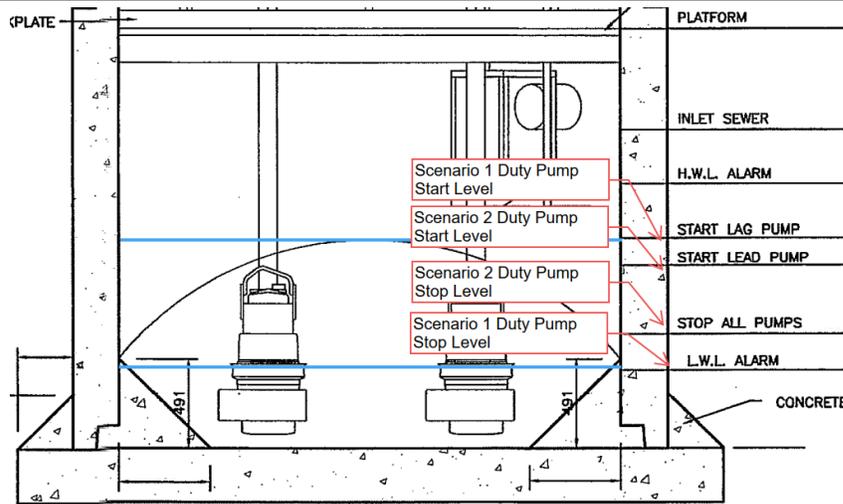


Figure 8.7: SPS Pump Layout and Operating Level

The evaluation above shows that the preferred water supply expansion strategy is Alternative 4A-1: *Upgrade Existing SPS* via retrofitting the existing layout and equipment.

However, due to the large flow variation between minimum and maximum flows (average dry weather flow is 1.2 L/s and average peak flow is 8 L/s), sizing constant speed pumps and optimizing the wet well for the 2051 peak flows will increase the residence time of the wastewater in the mains and wet well during low flow periods. This will increase the H₂S issues that are causing structural deterioration in the transition chamber and its connecting upstream pipes. Additionally, average pump life is 15 years, therefore, it should be sized for the flow range forecasted within its lifespan. As such, the following two options can be implemented:

- Installing VFD pumps which can be sized to operate for a wide range of flows while minimizing the active volume (storage volume) within the wet well and subsequently the discharge pipes and downstream infrastructure. VFD pumps can meet the 10 starts per hour within a smaller active volume than constant speed pumps which will prevent stagnant flows; OR
- Size constant speed pumps for up to year 2040 (approximately 16L/s), after which they can be replaced with upsized pumps.

8.8.2 Wastewater Treatment System

The preferred strategy shows that Alternative 4B-1: *Treatment Optimization via Technology* is the preferred strategy for the for Moose Creek lagoon capacity expansion. However, it

must be noted that both alternatives are viable options and the preferred strategy will greatly depend on the Class EA study and the ACS results. This is because Alternative 4B-2: *Modified Lagoon Operation* is a conservative approach that uses tried-and-tested wastewater treatment processes, with ample flexibility and experience in modifying for further expansion. Having one semi-mechanical plant within North Stormont also gives the Township flexibility in the future for communal wastewater treatment.

Evaluation of both technologies (SAGR vs IFAS) to select one best suited for the Township's needs is to be completed in the required Class EA study. Figure 8.8 provides the configuration of the wastewater treatment system for both technology options.

The timeline of the upgrades (post tertiary filtration installation) can possibly be delayed if flow per capita is reduced as detailed in Section 8.5.2 (which will reduce the growth rate of the flows). A phased approach to the upgrades can be implemented, with the installation of the tertiary filter system as the first upgrade to address the existing TSS issues. The subsequent upgrades will depend on the ACS results, following which the long-list alternative strategies can be re-assessed and the costs re-estimated in the Schedule C Class EA based on the updated information. As part of the Class EA, a technical cultural heritage study is to be undertaken to assess the impact of the increased effluent discharge volumes, as detailed in Section 6.2.

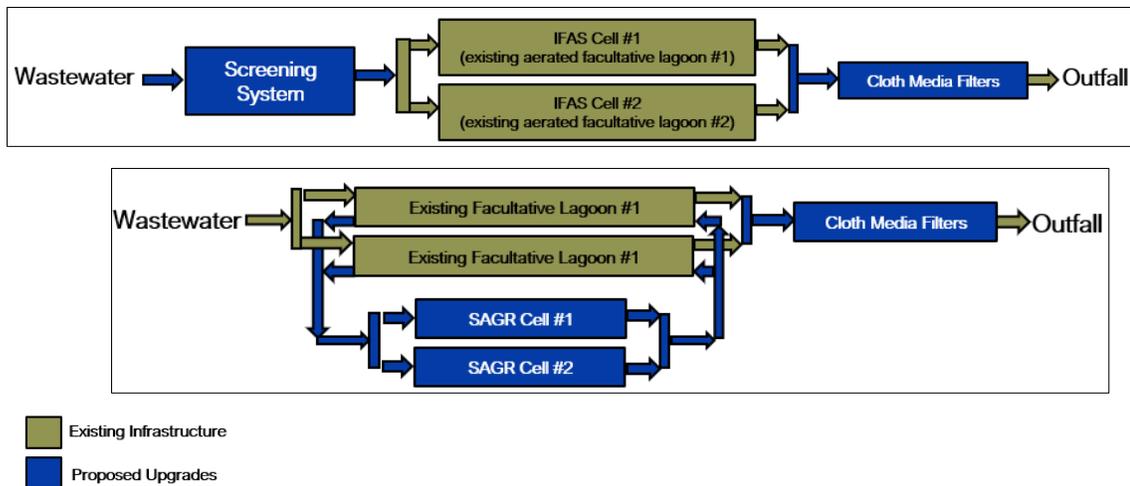


Figure 8.8: Technology Options for Proposed Moose Creek Wastewater Lagoon Upgrades

8.8.3 Implementation Timeline

At the current wastewater flow growth rate, the anticipated timeline required for the recommendations is provided in Table 8.10.

Table 8.10: Wastewater Master Plan Recommendations Implementation Timeline

Work	0 – 5 years (2025 – 2030)	5 – 10 years (2030- 2035)	10 – 15 years (2035- 2040)	15-20 years (2040- 2045)	20-25 years (2045- 2050)
SPS Upgrades (Design and Construction)	<ul style="list-style-type: none"> • Chrysler • Moose Creek 	Finch			
Lagoons Expansion ECA (and ACS)	Moose Creek				
Lagoons Expansion Design	Moose Creek				
Lagoons Expansion Construction		Moose Creek			

1: Assuming that hydrogeological investigation for Replacement Well #3 will incorporate the recommendations in Section 7.8.4, such that firm capacity of DWS can meet the projected MDD to 2051.

8.8.4 Chrysler Sensitivity Analysis

Figure 8.1 is developed following the same methodology from Section 7.8.6 and illustrates the population growth under the proposed rate in the planned development. As seen, at the growth rate of 30 housing units annually, Chrysler’s lagoon capacity will be exceeded by year 2040. Capacity expansion (80% of rated capacity) will be triggered by year 2030 (within next 5 years).

8.8.5 Climate Change Resiliency

Since all calculations followed the MECP guidelines which provide a conservative analysis that account for possible scenarios of larger flows due to climate change, the recommendations provided in the Wastewater Master Plan account incorporate the safety factors needed to accommodate the larger flows. Wastewater collection and treatment systems are vulnerable to excessive infiltration and inflows that can occur due to climate change and, as such, are recommended to upsized when flows reach 80% of its rated capacity limit.

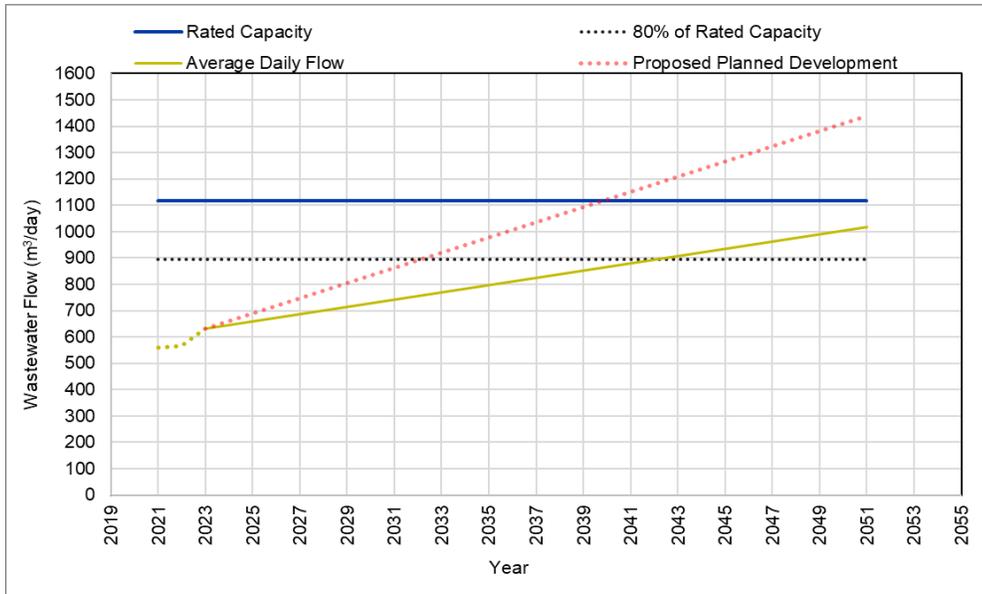


Figure 8.1: Crysler Projected ADF under Proposed Planned Development Population Growth Rate Scenario

9.0 CAPITAL PLAN

The following capital plan provides a breakdown of the recommended projects, the corresponding MCEA schedule and the estimated Level 5 cost analysis in 2024 dollar figures (not accounting for future inflation).

Note: All \$ values are a reflection of the 2024 CAD \$ valuation

Project Title/Description	Project Schedule	2025-2030	2030-2035	2035-2040	2040-2045	2045-2051
Finch						
Water						
Water Meters		\$ 250,000				
New Well in Same Wellfield	Schedule B					
Well Exploration (Incl. Hydrogeological Investigation)		\$ 500,000				
Project Implementation				\$ 700,000		
New Water Storage Reservoir	Exempt				\$ 2,000,000	
Wastewater						
Upgrade Existing Sewage Pumping Station	Exempt			\$ 140,000		\$ 200,000
Total		\$ 750,000		\$ 840,000	\$ 2,000,000	\$ 200,000
Crysler						
Water						
		\$ 450,000				
New Well in Same Wellfield	Schedule B					
Well Exploration (Incl. Hydrogeological Investigation)			\$ 600,000			
Project Implementation				\$ 1,300,000		
New Above-Grade Storage Tank	Exempt			\$ 810,000		
Wastewater						
Upgrade Existing Sewage Pumping Stations	Exempt	\$ 140,000			\$ 250,000	
Total		\$ 590,000	\$ 600,000	\$ 2,110,000	\$ 250,000	
Moose Creek						
Water						
Water Meters		\$ 260,000				
New Water Storage Reservoir	Exempt		\$ 1,500,000			
Wastewater						
Upgrade Existing Sewage Pumping Station	Exempt	\$ 140,000			\$ 250,000	
Lagoon Capacity Expansion (IFAS)	Schedule C					
Class EA		\$ 210,000				
Engineering Design and Contract Administration		\$ 850,000				
Construction		\$ 5,700,000				
Total		\$ 7,160,000	\$ 1,500,000		\$ 250,000	
Total		\$ 8,500,000	\$ 2,100,000	\$ 3,000,000	\$ 2,500,000	\$ 200,000

10.0 REFERENCES

- Metcalfe & Eddy. (2014). *Wastewater Engineering Treatment and Resource Recovery*. New York: McGraw-Hill Education.
- Ontario Ministry of Environment, Conservation and Parks. (2023, Nov 30). Design Guidelines for Sewage Works. Ontario, Canada.
- Ontario Ministry of Environment, Conservation and Parks. (2023, May 11). Design Guidelines for Drinking-Water Systems. Ontario, Canada.
- The Counties of SDG. (2018). *Official Plan for United Counties of Stormont, Dundas and Glengarry*. The Counties of SDG.
- R. V. Anderson Associates Limited. (2022, May 16). *Villages of Crysler, Finch and Moose Creek – Water & Sewage Reserve Study Update*. R. V. Anderson Associates Limited.
- Watson & Associates Economists Ltd. (2023). *United Counties of Stormont, Dundas and Glengarry Growth Management Strategy Report*. Watson & Associates Economists Ltd.

APPENDIX A

Referenced Legislation and Policies



1.0 PROVINCIAL ACTS AND POLICIES

1.1 Provincial Acts and Regulations

1.1.1 Environmental Assessment Act (EAA)

The EAA is the legislation which allows the MCEA process to be followed by municipalities so that they can plan, design, construct, maintain, rehabilitate, and/or retire municipal road, water, wastewater, and transit projects. This allows these projects to proceed without having to obtain project-specific approval under the EAA provided that the MEA Class EA process is followed.

1.1.2 Environmental Protection Act (EPA)

The intent of the EPA is to protect the Ontario environment from an “adverse effect” which is defined as the following:

- Impairment of quality of the natural environment for any use that can be made of it;
- Injury or damage to property or to plant or animal life;
- Harm or material discomfort to any person;
- An adverse effect on the health of any person;
- Impairment of the safety of any person;
- Rendering any property or plant or animal life unfit for human use;
- Loss of enjoyment of normal use of property; and
- Interference with the normal conduct of business.

Regulations from the Act which may impact or have bearing on the operation or construction of water and wastewater systems are shown below in Table 1.1.

Table 1.1: EPA Regulations Impacting Water, Wastewater and Stormwater Systems

Regulation	Title
O. Reg. 53/24	General and Transitional Matters
O. Reg. 406/19	On-Site and Excess Soil Management
O. Reg. 208/19	Environmental Compliance Approval in Respect of Sewage Works
O. Reg. 1/17	Registrations Under Part ii.2 of the Act - Activities Requiring Assessment of Air Emissions

O. Reg. 351/12	Registrations Under Part ii.2 of the Act - Waste Management Systems
O. Reg. 255/11	Applications for Environmental Compliance Approvals
O. Reg. 224/07	Spill Prevention and Contingency Plans
O. Reg. 222/07	Environmental Penalties
O. Reg. 153/04	Records of Site Condition - Part xv.1 of the Act
O. Reg. 675/98	Classification And Exemption of Spills and Reporting of Discharges
O. Reg. 524/98	Environmental Compliance Approvals - Exemptions from Section 9 of the Act
O. Reg. 232/98	Landfilling Sites
O. Reg. 206/97	Waste Disposal Sites, Waste Management Systems And Sewage Works Subject to Approval Under or Exempt from the Environmental Assessment
O. Reg. 101/94	Recycling and Composting of Municipal Waste
R.R.O. 1990, Reg. 360	Spills

1.1.3 Ontario Water Resources Act (OWRA)

The purpose of this Act is to provide for the conservation, protection, and management of Ontario's waters and for their efficient and sustainable use, to promote Ontario's long-term environmental, social, and economic well-being.

1.1.4 Water Opportunities and Water Conservation Act (WCA)

The 2010 WCA under the Water Taking and Transfer (OWRA) Regulation (O. Reg 387/04) is one of the various provincial land use planning statutes, policies, and plans that set out direction relating to water conservation and efficiency best management practices. The Act aims to conserve and sustain water resources for present and future generations by:

- a) Foster innovative water, wastewater and stormwater technologies, services and practices in the private and public sectors; and
- b) Create opportunities for economic development and clean-technology jobs in Ontario.

One measure managed by the regulation comprises of the *Province of Ontario – 2021 Water Conservation and Efficiency Program* which assesses water conservation measures in accordance with best water management standards and practices. Ontario has a range of programs to manage water supply and demand, such as establishing water efficiency

standards, and requires local planning authorities to protect water quality and promote green infrastructure. Water takers are required to monitor and report data annually.

1.1.5 Nutrient Management Act (NMA)

The General Regulation Ontario Regulation (O. Reg.) 267/03 made under the Nutrient Management Act governs the requirements for land application of biosolids, e.g., seasonal storage requirement. For wastewater treatment plants (WWTP) which were not phased in under the *Nutrient Management Act*, requirements are set out in the Environmental Compliance Approval (ECA), based on the MECP and the Ministry of Agriculture, Food and Rural Affairs (OMAFRA) Guidelines for the Utilization of Biosolids and Other Wastes on Agricultural Land, 1996. Part II of the NMA requires the Municipality to ensure that their biosolids land application program meets the requirements of the Act and complies with the requirements for land application for non-agricultural source materials (NASM).

1.1.6 Safe Drinking Water Act (SDWA)

The *Safe Drinking Water Act* was implemented following the Walkerton Water Crisis (2000), at which time there was no formal regulation of drinking water treatment, operation, record taking, and remedial actions for unsafe drinking water in Ontario. Ontario Regulation 170 (O. Reg 170) under the SDWA provides the requirement for municipal water supply systems which includes reference to the Ten State Standards and the MECP document titled *Procedure for Disinfection of Drinking Water*. The MECP *Design Guidelines for Drinking-Water Systems* (Water Guidelines) is used for the analysis of the Municipality's supply and distribution systems; but it is understood that the guidelines do allow some individual municipal discretion on items such as municipal fire protection. The guidelines will be the foundational basis for risk assessments, supply and distribution planning, fire flow determination, design system pressures and calculation of future water supply.

Schedule 22 and Section 11 of O. Reg 170/03 under the Act requires that an annual status summary report on the performance of the Municipality's Drinking Water System (DWS) be provided to the Council and be reviewed per the guidelines established by the MECP.

The sampling, testing, monitoring, and pumping of the water supplied by the wells must follow the requirements set by Permits to Take Water (PTTW), the Municipal Drinking Water License, and Drinking Water Works Permit for the subject systems. The Sustainable Water and Sewage Systems Act (SWSS) (2002) indicates that regulated entities are required to submit a report detailing the provision of water services and wastewater services including an inventory of and management plan for the associated infrastructure.

1.1.7 Clean Water Act (CWA)

The CWA is a law enacted by the Legislative Assembly of Ontario, Canada to protect existing and future sources of drinking water. The CWA (2006) is a major part of the Ontario government's commitment to ensuring that every Ontarian has access to safe drinking water. Key regulations enabling the work and authority for Source Water Protection are:

- O. Reg. 284/07 Source Protection Areas and Regions delineates source water protection areas within the province;
- O. Reg. 287/07 General mandates the terms of reference and requirements for source water protection plans; and
- O. Reg. 288/07 Source Protection Committees under the CWA constitutes and mandates Source Protection Committees.

When municipal raw water demonstrates an exceedance of an Ontario Drinking Water Quality standard or increasing trend of a contaminant of concern, the CWA allows local Source Protection Authorities (SPAs) to designate municipal wellhead protection areas as Issues Contributing Areas (ICA). An ICA delineates an area where certain current or past land use have or are likely inferred to contribute to the elevated contaminant concentration in raw water supplies.

1.1.8 Sustainable Water and Sewage Systems Act

The *Sustainable Water and Sewage Systems Act* (SWSSA) mandates that all municipalities (regulated entity) operate their water and wastewater systems on a full cost recovery basis where the system cost is borne by the system users. Every municipality that provides water services to the public has to prepare and approve a plan describing how the entity intends to pay the full cost of providing those services. This Act has no enabling regulations and was implemented following the Walkerton Water Crisis which occurred in 2000.

1.1.9 Provincial Policy Statement 2020

The Provincial Policy Statement (PPS), 2020 (Ministry of Municipal Affairs and Housing [MMAH], 2020) sets out the Provincial policy direction for land use planning in Ontario, including managing growth, using and managing natural resources, protecting the environment, and ensuring public health and safety.

The vision of the policy recognizes that Ontario's long-term prosperity, environmental health and social well-being depend on promoting efficient land use and development patterns. Efficient development patterns also optimize the use of land, resources and public investment in infrastructure and public service facilities and support sustainability by

promoting strong, liveable, healthy and resilient communities, protecting the environment and public health and safety, and facilitating economic growth.

The policies indicate that settlement areas shall be the focus of growth and development, and that municipalities plan for a full range of and mix of land uses and housing options to meet current and future needs over a 25 year planning horizon. Land use patterns within settlement areas shall be based on densities and a mix of land uses which:

- Efficiently use land and resources;
- Are appropriate for, and efficiently use, the infrastructure and public service facilities which are planned or available; and
- Avoid the need for their unjustified and/or uneconomical expansion.

In addition, the importance of intensification and redevelopment is noted as follows:

- a) *“Maintain at all times the ability to accommodate residential growth for a minimum of 15 years through residential intensification and redevelopment and, if necessary, lands which are designated and available for residential development; and*
- b) *Maintain at all times where new development is to occur, land with servicing capacity sufficient to provide at least a three-year supply of residential units available through lands suitably zoned to facilitate residential intensification and redevelopment, and land in draft approved and registered plans.”*

The PPS policies require that planning for sewage and water services shall:

- c) Accommodate forecasted growth in a manner that promotes the efficient use and optimization of:
 - i. Existing municipal sewage services and municipal water services,
 - ii. Existing private communal sewage services and private communal water services, where municipal sewage services and municipal water services are not available or feasible;
- d) Ensure these systems are provided in a manner that:
 - i. Can be sustained by the water resources upon which such services rely,
 - ii. Prepares for the impacts of a changing climate,
 - iii. Is feasible, affordable and financially viable over their lifecycle,
 - iv. Protects human health and safety, and the natural environment;
- e) Promote water conservation and water use efficiency;
- f) Integrate servicing and land use considerations at all stages of the planning process; and

g) Be in accordance with the servicing hierarchy in the policies

All planning decisions and Official Plan policies (including those related to infrastructure) are required to be 'consistent with' the policies of the PPS (2020). As such, the North Stormont W WW Master Plan will be developed on the premises of the above described PPS policies.

1.1.10 Ontario Heritage Act

The *Ontario Heritage Act* mandates the criteria and process for identifying provincial heritage properties and the standards for their protection, maintenance, use and disposal. The Act is generated through consultation with the affected public and ministries.

Provincial Heritage Property examples:

- Courthouses and jails
- Monuments and cemeteries
- Historic gardens and forts
- Provincial parks and cultural heritage landscapes
- Power generating stations and provincial mental health facilities
- Bridges, museums and historic houses

1.2 Federal Acts and Regulations

1.2.1 Federal Fisheries Act

The *Fisheries Act* (Government of Canada 1985) is administered by Fisheries and Oceans Canada (DFO) and provides a framework for the proper management and control of fisheries as well as the conservation and protection of fish and fish habitat, including the prevention of pollution. In June of 2019, Canada modernized the *Fisheries Act*; the new provisions and stronger protections aim to better support the sustainability of Canada's fish and fish habitat for future generations. In particular, Section 34.4 prohibits any work, undertaking or activity (other than fishing) that results in the death of fish; Section 35.1 prohibits the harmful alteration, disruption, or destruction of fish habitat (HADD); and Section 36 prohibits the deposit of deleterious substances.

The *Fisheries Act* requires that projects avoid causing death of fish or HADD of fish habitat unless authorized by DFO or a designated representative. Proponents are responsible for planning and implementing works, undertakings or activities in a manner that avoids harmful impacts to fish and fish habitat. Should proponents believe that their work, undertaking or activity will result in harmful impacts to fish and fish habitat, a Request for Review (RFR)

must be submitted, and the DFO will work with them to assess the risk and provide advice and guidance on how to comply with the *Fisheries Act*.

1.2.2 Species at Risk Act

At a federal level, Species at Risk (SAR) designations for species occurring in Canada are initiated by the completion of a comprehensive Status Report by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC). If approved by the federal Minister of the Environment, species are added to the federal List of Wildlife Species at Risk (Government of Canada 2002).

Species that are included on Schedule 1 as Endangered or Threatened are afforded both individual and critical habitat protection on federal lands under the Species at Risk Act (SARA). On private or provincially owned lands, only aquatic species listed as Endangered, Threatened or Extirpated are protected under SARA, unless ordered by the Governor in Council.

1.2.3 Endangered Species Act

At the provincial level, SAR and their habitats are protected under the *Endangered Species Act* (ESA, Government of Ontario 2007) which is administered by the Ministry of Environment, Conservation and Parks (MECP). SAR designations for species in Ontario are initiated by the completion of a comprehensive Status Report by the Committee on the Status of Species at Risk in Ontario (COSSARO), and if approved by the provincial Minister of the Environment, Conservation and Parks, species are added to the Species at Risk in Ontario (SARO) List (O. Reg. 230/08) under the ESA. Section 9(1) of the ESA, 2007 prohibits the killing, harming, harassment, capture, taking, possession, transport, collection, buying, selling, leasing, trading, or offering to buy, sell, lease or trade species listed as Extirpated, Endangered, or Threatened on the SARO List. Section 10(1) prohibits damaging or destroying habitat of Endangered or Threatened species on the SARO List and may apply to Extirpated species through special regulations. General habitat protection applies to all Endangered and Threatened species, with some species having 'categorized habitat', which protects areas within specific distances from known records. Some SAR are afforded a more precise habitat protection through a habitat regulation (regulated habitat), as identified in Ontario Regulation 242/08. Species designated as Special Concern are not protected under the Act.

The ESA, 2007 includes provisions for permits under Section 17(2)(c) that would otherwise contravene the Act. Projects which propose impacts to SAR or their habitat would require a permit or other process (e.g., registration) to proceed without contravening the Act.

APPENDIX B
Stakeholder Consultation Log



Appendix B-1

Public Contact Register



Township of North Stormont
Master Servicing Plan
Mailing List

FIRST NAME	LAST NAME	TITLE	COMPANY NAME/ADDITIONAL NAME	LOCATION	CITY/TOWN	PROVINCE	POSTAL CODE	EMAIL	DATE SENT	NOTICE OF COMMENCEMENT COMMENTS	NOT RECEIVED	DATE SENT	NOTICE OF PIC#1 COMMENTS	NOT RECEIVED	DATE SENT	NOTICE OF FINAL REPORT COMMENTS	NOT RECEIVED
Andre	Brisson	Chief Building Official	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	abrisson@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Charles	Shane	Councillor	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	cshane@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Adrian	Bugell	Councillor	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	abugell@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Allan	McDonald	Councillor	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	amcdonald@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Steve	Densham	Deputy Mayor	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	sdensham@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Nancy-Ann	Gauthier	Fire Chief	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	ngauthier@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Francois	Landry	Mayor	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	flandry@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Blake	Henderson	Public Works Superintendent	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	bhenderson@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Elliot	Keller	Public Works Supervisor	Township of North Stormont	15 Rue Union St.	Berwick	Ontario	K0C 1K0	ekeller@northstormont.ca	30-May-24			05-Sep-24			02-Jan-25		
Nolan	Quinn	MPP	United Counties of Stormont, Dundas, and Glengarry	120 Second Street West (Time Square)	Corwall	Ontario	K6J 1G5	nquinn@pc.gc.ca	30-May-24			05-Sep-24			02-Jan-25		
			Ontario Clean Water Agency												02-Jan-25		
General Contact			Crown-Indigenous Relations and Northern Affairs Canada					aschc.infopubs.aandc@canada.ca	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Environment and Climate Change Canada - Environmental Assessment Section	200 Sacré-Coeur Blvd	Gatineau	QC	K1A 0H3	ec.environfo.ec@canada.ca	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Transport Canada	4000 Yonge St	Toronto	ON	M2H 4S6	Environ@tc.gc.ca	30-May-24	Email removed as per email from Transport Canada		05-Sep-24			02-Jan-25		
		Environmental Assessments Branch, Eastern Region	Ministry of the Environment, Conservation and Parks (MECP)					envoffication.ereson@ontario.ca	30-May-24			05-Sep-24	Undelivered - check email - rejected	Updated email address, please res	02-Jan-25		
Karla	Barboza	Team Lead, Heritage (Acting)	Ministry of Citizenship and Multiculturalism (MCM)	56 Wellesley Street West, 14th Floor	Toronto	Ontario	MTA 2R9	karla.barboza@ontario.ca	30-May-24			05-Sep-24			02-Jan-25		
Deborah	Cope	Manager (Acting), Culture Policy and Services Unit	Ministry of Tourism, Culture and Sport	438 University Avenue, 8th Floor	Toronto	Ontario	M5G 2K8	deborah.cope@ontario.ca	30-May-24			05-Sep-24			02-Jan-25		Comments received from Erika Lederer, included in Appendix B-5
Adam	Worth	Kemptville Work Centre District Manager (Acting), Kemptville Work Centre	Ministry of Natural Resources and Forestry	Unit 1, 10 Campus Drive	Kemptville	Ontario	K0G 1J0	aworth@ontario.ca	30-May-24			05-Sep-24			02-Jan-25		
Kevin	Miller	Regional Director, Municipal Services Division	Ministry of Municipal Affairs and Housing	Colling Park 14th Floor, 777 Bay St.	Toronto	Ontario	M7A 2J3	kemiller@ontario.ca	30-May-24	Updated email address as per email		05-Sep-24			02-Jan-25		
Michael	Elms	Manager, Community Planning & Development	Ministry of Municipal Affairs and Housing Ontario Public Service	777 Bay Street, 17 th floor	Toronto	Ontario	MTA 2J3	Michael.Elms@Ontario.ca	30-May-24	Updated email address as per email, and removed Laurie Miller from circulation list		05-Sep-24			02-Jan-25		
Damien	Schaefer	Manager, Community Planning & Development	Ministry of Municipal Affairs and Housing Ontario Public Service	777 Bay Street, 17 th floor	Toronto	Ontario	MTA 2J3	damien.schaefer@ontario.ca	30-May-24	Updated email address as per email, and removed Laurie Miller from circulation list		05-Sep-24			02-Jan-25		
Sean	Fraser	Assistant Deputy Minister, Planning & Growth	Ministry of Municipal Affairs and Housing	College Park 16th Floor, 777 Bay St.	Toronto	Ontario	MTA 2J3	sean.fraser@ontario.ca	30-May-24	Request that ADM Sean Fraser be removed from different email circulations that your organization generates - I was wondering if global change can be made to swap out ADM Fraser for laurie.miller@ontario.ca? Laurie is now in the role (Regional Director, Municipal Services Division) that ADM Fraser once occupied		NO SEND			02-Jan-25		
Cheryl	Davis	Manager (Acting), Environmental Policy Office	Ministry of Transportation	3rd Floor, 159 Sir William Hearst Ave.	Toronto	Ontario	M3M 0B7	cheryl.davis@ontario.ca	30-May-24			05-Sep-24			02-Jan-25		
Lise	Chabot	Director, Indigenous Relations Branch	Ministry of Indigenous Affairs	Suite 400, 160 Bloor St. E.	Toronto	Ontario	MTA 2E6	lise.chabot@ontario.ca	30-May-24			05-Sep-24			02-Jan-25		
Carolina	Tomes	Director, Infrastructure Policy Branch	Ministry of Infrastructure	College Park 4th Floor, Suite 425, 777 Bay St.	Toronto	Ontario	M5G 2E5	carolina.tomes@ontario.ca	30-May-24			05-Sep-24			02-Jan-25		
Cale	Selby	Director, Environmental Management Branch	Ministry of Agriculture, Food, and Rural Affairs	Ontario Government Building, 3rd Floor S, 1 Stone Road W	Guelph	Ontario	N1G 4Y2	cale.selby@ontario.ca	30-May-24			05-Sep-24			02-Jan-25		
Sandra	Mancini	Managing Director - Conservation Lands Management and Outreach	South Nation Conservation Authority	38 Victoria Street	Finch	Ontario	K0C 1K0	sfmancini@snca.on.ca	30-May-24	The contacts for this project will be Ronda Boutz and myself (Sandra Mancini).		05-Sep-24			02-Jan-25		Response received from Laura Crites and included in Appendix B-5
Ronda	Boutz	Managing Director - Planning and Development	South Nation Conservation Authority	38 Victoria Street	Finch	Ontario	K0C 1K0	rboutz@snca.on.ca	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Upper Canada District School Board	225 Central Ave W	Brockville	Ontario	K6V 5K1	susan.esters@ucdsb.ca	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Catholic District School Board of Eastern Ontario	2755 Highway 43	Kemptville	Ontario	K0G 1J0	mail@cdsbeo.on.ca	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Moose Creek Chamber of Commerce					mccchambercommerce@gmail.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact		Customer Relations	Hydro One	483 Bay Street, South Tower, 8th Floor Reception	Toronto	Ontario	M5G 1P5	CustomerRelations@HydroOne.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact		Secondary Land Use	Hydro One	483 Bay Street, South Tower, 8th Floor Reception	Toronto	Ontario	M5G 1P5	SecondaryLandUse@HydroOne.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Enbridge Gas					enbridgegas@enbridge.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Enbridge Gas					CustomerRelations@enbridge.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact		Public Works	Canadian Pacific Railway (CPR)					PublicWorks@cp.ca	30-May-24			05-Sep-24			02-Jan-25		
General Contact		Public Works	CN Rail					EP-Public-Works@cp.ca	30-May-24			05-Sep-24			02-Jan-25		
General Contact			VIA Rail	65 Front Street W M5J 1E6	Toronto	Ontario	M5J 1E6	via@via.com	30-May-24			05-Sep-24			02-Jan-25		
Angela	Taylor	Implementation Manager	Bell Canada	136 Bayfield Street, 2nd Floor	Barrie	ON	L4M 3B1	angela.taylor@bell.ca	30-May-24			05-Sep-24			02-Jan-25		
Tony	Dominquez	System Planner / Designer	Rogers Cable					tony.dominquez@rogers.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact			Trans-Northern Pipelines Inc.	45 Vogel Road, Suite 310	Richmond Hill	ON	L4B 3P5	tp@tnpi.com	30-May-24			05-Sep-24			02-Jan-25		No infrastructure within area
General Contact			TransCanada Pipelines Ltd.	442 Brand Street, Suite 204	Burlington	Ontario	L7R 3G4	tp@tnpi.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact			GFL Environmental	17125 Laffache Road	Moose Creek	Ontario	K0A 1M0	gfl@gfl.com	30-May-24			05-Sep-24			02-Jan-25		
General Contact		Consultation Office	Algonquins of Ontario	31 Riverside Drive, Suite 101	Pembroke	Ontario	K8A 6R6	atgonquins@algonquin.com	30-May-24	MECP response not received yet		05-Sep-24			02-Jan-25		
General Contact		Contact Office	Township of North Dundas	636 St. Lawrence Street, P.O. Box 489	Winchester	Ontario	K0C 2K0	info@northdundas.com	30-May-24			05-Sep-24			02-Jan-25		
Tony	Fraser	Mayor	Township of North Dundas	571 St. Lawrence Street	Winchester	Ontario	K0C 2K0	tonyfraser@northdundas.com	30-May-24			05-Sep-24			02-Jan-25		
Theresa	Bergeron	Deputy Mayor	Township of North Dundas	10714 County Road 3	South Mountain	Ontario	K0E 1W0	theresabergeron@northdundas.com	30-May-24			05-Sep-24			02-Jan-25		
John	Lemox	Councillor	Township of North Dundas	571 St. Lawrence Street	Winchester	Ontario	K0C 2K0	johnlemox@northdundas.com	30-May-24			05-Sep-24			02-Jan-25		
Gary	Annable	Councillor	Township of North Dundas	544 Louise Street	Winchester	Ontario	K0C 2K0	gannable@northdundas.com	30-May-24			05-Sep-24			02-Jan-25		
Matthew	Uhrig	Councillor	Township of North Dundas	546 Henderson Cres	Winchester	Ontario	K0C 2K0	muhrig@northdundas.com	30-May-24			05-Sep-24			02-Jan-25		
Jamie	Cheney	Director - Transportation and Drainage Superintendent	Township of North Dundas	571 St. Lawrence Street	Winchester	Ontario	K0C 2K0	jcheney@northdundas.com	30-May-24			05-Sep-24			02-Jan-25		
Danielle	Ward	Director - Environmental Services	Township of North Dundas	571 St. Lawrence Street	Winchester	Ontario	K0C 2K0	dward@northdundas.com	30-May-24	On maternity leave and will be returning Monday November 4th 2024. During this time I will be periodically checking and responding to emails. For urgent matters related to infrastructure- water, sewer, stormwater, flooding, water/sewer connections- please call 613-774-2105 for immediate assistance, or contact dreward@northdundas.com. For urgent matters related to landfill operations such as hours, household hazardous waste dates, accepted materials, collection delays, and requests for new pick ups please call 613-774-5157 or contact rduran@northdundas.com		05-Sep-24			02-Jan-25		
Marc	Leclout	Director - Public works	The Nation Municipality	3248 County Road 9	Fourier	Ontario	K0B 1G0	marc.leclout@nationmun.ca	30-May-24			05-Sep-24			02-Jan-25		
Nicholas	Pigeon	Director - Water and Wastewater	The Nation Municipality	3248 County Road 9	Fourier	Ontario	K0B 1G0	nicholas.pigeon@nationmun.ca	30-May-24			05-Sep-24			02-Jan-25		
J	Iroix	Director	Municipality of Casselman	751 St. Jean Street P.O. box 710	Casselman	Ontario	K0A 1M0	jiroix@nationmun.ca	30-May-24	Mrs. Josée Brizard has retired as of May 3rd, 2024. For business related to the clerk's office, please send an email to clerk@nationmun.ca. For business addressed to the Chief Administrative Officer, please send an email to dlevesque@nationmun.ca		05-Sep-24			02-Jan-25		

Appendix B-2

Public Contact Notices





TOWNSHIP OF
**NORTH
STORMONT** ✪
A good place to grow

NOTICE OF STUDY COMMENCEMENT

VILLAGES OF CRYSLER, FINCH, AND MOOSE CREEK, WATER AND WASTEWATER MASTER SERVICING PLAN FOR THE TOWNSHIP OF NORTH STORMONT

The Township of North Stormont has initiated a Water and Wastewater Master Servicing Plan (MSP) for the future growth in the villages of Crysler, Finch, and Moose Creek. The Township of North Stormont is completing this Water and Wastewater MSP to identify high level strategies for existing and future water and wastewater servicing in the Township.

The preferred servicing strategies will:

- Support service area growth to 2051 while considering opportunities for operational flexibility and redundancy, as well as for optimization and improvement of the existing systems;
- Provide resiliency to potential future changes to regulatory and climatic conditions;
- Balance environmental, social, technical, and economic considerations.

The project is being completed as an **Approach No. 1 Master Plan** project under the framework of the **Municipal Class Environmental Assessment** (October 2000, amended in 2007, 2011, 2015, & 2023), which is approved under the Ontario Environmental Assessment Act. The study will address the requirements of Phase 1 and part of Phase 2 of the Municipal Class EA process.

Consultation with the public, Indigenous Communities, regulator agencies, and stakeholder groups is a key element of a Municipal Class EA study. To facilitate this, a Public Information Centre (PIC) is planned over the course of the study to gather input on potential servicing solutions and provide an opportunity to discuss concerns and issues with the project team. Interested stakeholders are encouraged to bring comments and concerns to the Township at any time during this process.

If you have any questions or comments regarding the study, or wish to be added to the project contact list to receive notices, please contact a member of the project team:

Craig Calder
CAO/Clerk
Township of North Stormont
15 Union Street
Berwick, ON K0C 1G0
613-984-2821 ext. 223
ccalder@northstormont.ca

Natasha Lee, P.Eng.
Project Manager
R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300
Toronto, ON M2J 4Z8
416-497-8600 ext. 1231
nlee@rvanderson.com

This notice first issued May 24, 2024



Outlook

R226348-20240530-Notice of Commencement & PIC- W-WW MSP for the Township of North Stormont

From Carol Derrick <cderrick@rvanderson.com>**Date** Thu 5/30/2024 1:25 PM**Cc** Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>**Bcc** abrisson@northstormont.ca <abrisson@northstormont.ca>; cshane@northstormont.ca <cshane@northstormont.ca>; abugelli@northstormont.ca <abugelli@northstormont.ca>; amcdonald@northstormont.ca <amcdonald@northstormont.ca>; sdenham@northstormont.ca <sdenham@northstormont.ca>; firechief@northstormont.ca <firechief@northstormont.ca>; flandry@northstormont.ca <flandry@northstormont.ca>; planning@northstormont.ca <planning@northstormont.ca>; bhenderson@northstormont.ca <bhenderson@northstormont.ca>; ekeller@northstormont.ca <ekeller@northstormont.ca>; nolan.quinn@pc.ola.org <nolan.quinn@pc.ola.org>; aadnc.infopubs.aandc@canada.ca <aadnc.infopubs.aandc@canada.ca>; ec.enviroinfo.ec@canada.ca <ec.enviroinfo.ec@canada.ca>; EnviroOnt@tc.gc.ca <EnviroOnt@tc.gc.ca>; eanotification.ereqion@onlario.ca <eanotification.ereqion@onlario.ca>; Barboza, Karla (MHSTCI) <karla.barboza@ontario.ca>; deborah.cope@ontario.ca <deborah.cope@ontario.ca>; shipra.vyas@ontario.ca <shipra.vyas@ontario.ca>; kemptville-kingston.mnrf@ontario.ca <kemptville-kingston.mnrf@ontario.ca>; adam.worth@ontario.ca <adam.worth@ontario.ca>

1 attachment (515 KB)

R226348-20240530- Notice of Study Commencement.pdf;

On behalf of the Township of North Stormont, please see enclosed the Notice of Commencement and Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

This notice is sent to your attention as it was deemed that you may be an interested stakeholder.

Should you wish to stop receiving notices pertaining to this project or would like to direct it to an alternate recipient, please advise the undersigned.

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

Encls: Notice of Commencement



R226348-20240530-Region-Notice of Commencement & PIC- W-WW MSP for the Township of North Stormont

From Carol Derrick <cderrick@rvanderson.com>

Date Thu 5/30/2024 3:12 PM

To eanotification.eregion@ontario.ca <eanotification.eregion@ontario.ca>

2 attachments (637 KB)

R226348-20240530- Notice of Study Commencement.pdf; Project Initiation Form (PIF).xlsx;

On behalf of the Township of North Stormont, please see enclosed the Notice of Commencement and Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

This notice is sent to your attention as it was deemed that you may be an interested stakeholder.

Should you wish to stop receiving notices pertaining to this project or would like to direct it to an alternate recipient, please advise the undersigned.

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

Encls: Notice of Commencement



NOTICE OF PUBLIC INFORMATION CENTRE #1

VILLAGES OF CRYSLER, FINCH, AND MOOSE CREEK WATER AND WASTEWATER MASTER SERVICING PLAN FOR THE TOWNSHIP OF NORTH STORMONT

The Township of North Stormont has initiated a Water and Wastewater Master Servicing Plan (MSP) for the future growth in the villages of Crysler, Finch, and Moose Creek. The Township of North Stormont is completing this Water and Wastewater MSP to identify high level strategies for existing and future water and wastewater servicing in the Township.

The preferred servicing strategies will:

- Support service area growth to 2051 while considering opportunities for operational flexibility and redundancy, as well as for optimization and improvement of the existing systems;
- Provide resiliency to potential future changes to regulatory and climatic conditions;
- Balance environmental, social, technical, and economic considerations.

The project is being completed as an **Approach No. 1 Master Plan** project under the framework of the **Municipal Class Environmental Assessment** (October 2000, amended in 2007, 2011, 2015, & 2023), which is approved under the Ontario Environmental Assessment Act. The study will address the requirements of Phase 1 and part of Phase 2 of the Municipal Class EA process.

How do I Participate?

We are hosting Public Information Centre #1 to report on the progress of the study and provide members of the public with an opportunity to provide comments prior to its finalization. The Public Information Centre will be hosted in person and will include presentation boards and the opportunity for the public to ask questions of the project team.

When: Tuesday, September 17, 2024, from 6:00 – 9:00 p.m.

Where: Moose Creek Recreational Hall

How: In-person.

The presentation boards from the meeting will be posted on the project webpage following the meeting: <https://www.northstormont.ca/>.

If you have any questions or comments regarding the study, or wish to be added to the project contact list to receive notices, please contact a member of the project team:

Craig Calder CAO/Clerk Township of North Stormont 15 Union Street Berwick, ON K0C 1G0 613-984-2821 ext. 223 ccalder@northstormont.ca	Trevor Kealey, P.Eng. Project Director R.V. Anderson Associates Limited 2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8 613-226-1844 ext. 3230 tkealey@rvanderson.com
---	---

This notice first issued September 2nd, 2024



R226348-20240905-Notice of Public Information Centre #1 - W-WW MSP for the Township of North Stormont

From Carol Derrick <cderrick@rvanderson.com>

Date Thu 9/5/2024 10:09 AM

Cc Trevor Kealey <tkealey@rvanderson.com>; Darika Sharma <DSharma@rvanderson.com>; Samson Tso <stso@rvanderson.com>; Sarah Molnarova <smolnarova@rvanderson.com>

 1 attachment (92 KB)

226348-20240828-North Stormont MSP-Notice of PIC - Final.pdf;

On behalf of the Township of North Stormont, please see attached Notice of Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

This notice is sent to your attention as it was deemed that you may be an interested stakeholder.

Should you wish to stop receiving notices pertaining to this project or would like to direct it to an alternate recipient, please advise the undersigned.

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Trevor Kealey, P.Eng.
Project Director
tkealey@rvanderson.com
(416) 497-8600 ext. 3230

Encls: Notice of Public Information Centre #1

Appendix B-3

Public Information Centre





THE TOWNSHIP OF NORTH STORMONT
 VILLAGES OF CRYSLER, FINCH, AND MOOSE CREEK
 WATER AND WASTEWATER MASTER SERVICING PLAN
 Public Information Session # 1
 September 17, 2024

COMMENT SHEET

SIGN-IN SHEET

~~ADDITIONAL COMMENTS:~~

NAME	email
JOHN OGILVIE	ogilvie.john@gmail.com
Ryan Villeneuve	ryan_villeneuve@hotmail.com
STEVE DENSHAM	SDENSHAM@NORTHSTORMONT.CA
Frank Thiorob	francois.Thiorob@gmail.com
RICHARD THEORET	2161 VALLEY ST RICHY@ONTARIOEAST.NET
Shelagh McRae	16791 County Rd 15
Gregor McRae	16791 County Rd 15
Francois Landry	15194 County Rd 9
Alison McDonald	alisonjane.mcdonald@gmail.com

Public Information Centre

North Stormont Water and Wastewater Master Plan

Township of North Stormont Municipal Office
15 Rue Union St., P.O. Box 99 Berwick, ON. K0C

Tuesday, September 17, 2024
Open House from 6:00 – 9:00 P.M.



Welcome!

The Township of North Stormont welcomes you to this Public Information Centre (PIC) so that we can share study objectives, findings to date, alternative solutions and next steps.

Please review the material and provide us with any comments you may have. Your input is important to the Class Environmental Assessment process. Staff are available to answer your questions and receive your comments. Comment sheets are also available for you to fill out.

Thank you for attending this Public Information Centre

Please sign in



What is the purpose of this Public Information Centre?



To present an overview of the North Stormont Water and Wastewater Master Plan (WWWMP)



To provide an overview of the:

- MSS and Municipal Class Environmental Assessment (Class EA) Process.
- Existing and forecasted populations & demands in the Study Area.



To present and gather your feedback on:

- Problem and Opportunity Statement;
- List of alternatives;
- Evaluation of alternatives; and
- Next steps in the process.



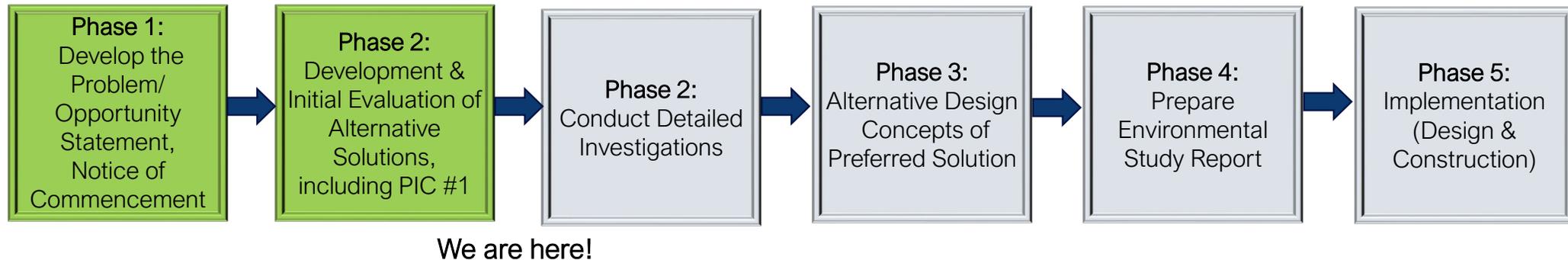
What is the purpose of this Master Servicing Study?

- The Township is undertaking the Master Plan study under the Municipal Class Environmental Assessment (Class EA) framework, as approved under the Ontario Environmental Assessment Act.
- The WWWMP will follow Approach #1 (high level study) under the master planning framework of the Municipal Class EA process. Certain projects may require additional study in the future to comply with environmental assessment requirements.
- This study focuses on municipal services in the villages of Finch, Chrysler, and Moose Creek, in line with the Township's Growth Management Strategy (GMS).
- The objectives of the WWWMP are to:
 - Determine the water and wastewater infrastructure needs;
 - Develop immediate and long-term servicing strategies to meet those needs; and
 - Establish an MCEA based criteria to evaluate the strategies and select one that meets the Township's long-term goals.



Municipal Class EA Process

This WWWWMP will complete **Phase 1** and a portion of **Phase 2** of the environmental assessment process. Any Schedule B or C projects resulting from this Master Plan will require additional investigations or study to fulfill Class EA requirements.



Current WWWWMP Project

Schedule B Class EA
(e.g. water storage, pumping station, etc.)

Schedule C Class EA
(e.g. wastewater treatment plant capacity increase, etc.)



Problem and Opportunity Statement

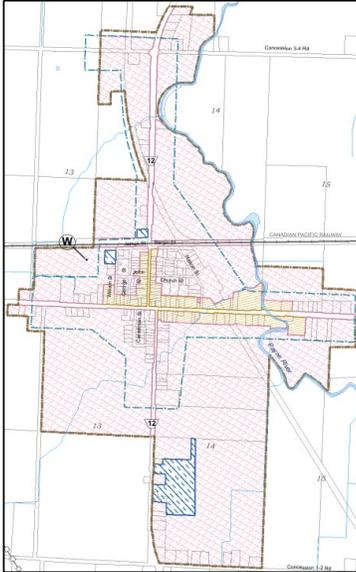
To accommodate growth to the year of 2051, the Water & Wastewater Master Plan will identify key improvements to the existing water and wastewater infrastructure to service its current and future serviced population.

The study will analyze existing infrastructure and determine how best to accommodate the future needs of the community. The Township is prioritizing solutions that comply with regulations and planning policies, while taking into consideration feedback from stakeholders.

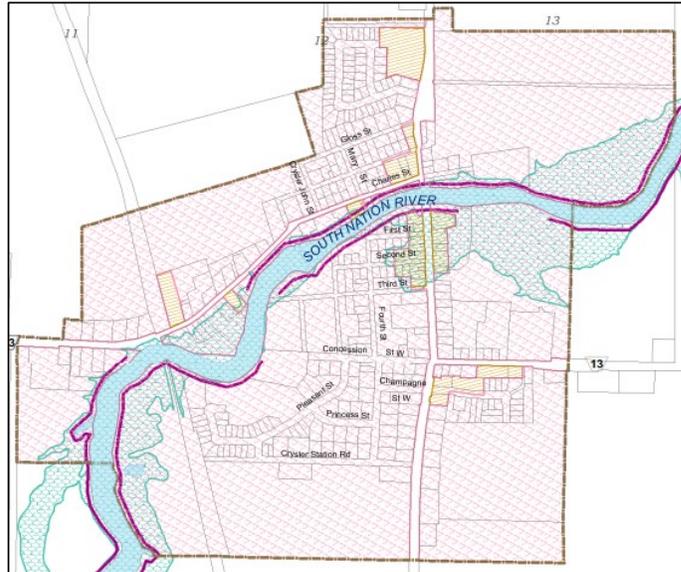
Financial viability, technical feasibility and social and environmental responsibility will also be considered. The plan will be implemented to address immediate, intermediate and long-term goals.



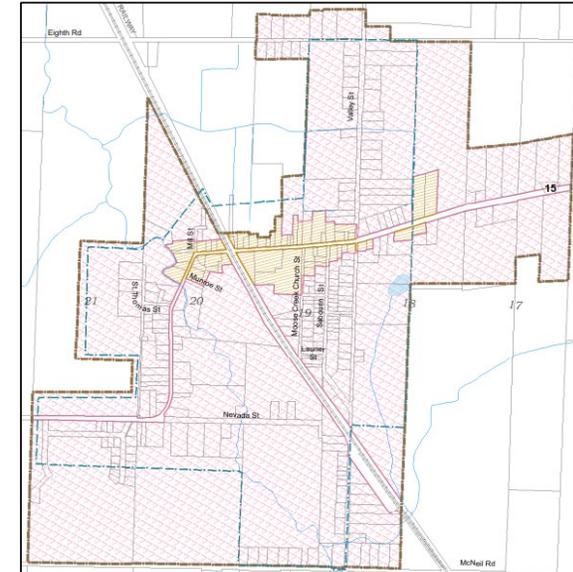
Study Areas and Population Forecast per GMS Report



Finch



Cryslar



Moose Creek

Population Growth (2023 – 2051)	Village Year	Finch	Cryslar	Moose Creek
	2023	671	1,215	680
2051	1,119	2,120	1,128	



Approach to Development and Evaluation of Alternatives

Alternative solutions were developed for each of the system components listed below.



Water System:

- Water Supply
- Water Storage



Wastewater System:

- Wastewater Collection
- Wastewater Treatment

- When planning for future infrastructure needs, it is important to start planning ahead of reaching 100% of capacity. In this case, planning and implementation of the expansion should occur when the demand reaches 80% of capacity.
- For each system component, a long list of alternative solutions were first screened to establish a short list of reasonable and feasible alternatives.
- The shortlisted alternatives were then evaluated in greater detail to identify the recommended solution.



Long List Screening Criteria

The long list of alternatives identified for each system component was screened against pass or fail criteria to confirm feasibility before proceeding to a detailed evaluation.

An alternative must pass all three (3) criteria to proceed to detailed evaluation.

Screening Criteria	Example Considerations
Does the Alternative Address the Problem and Opportunity Statement?	<ul style="list-style-type: none">• Does the alternative address the considerations listed in the Problem and Opportunity Statement?• Does the alternative support planned growth to 2051?• Does the alternative meet local, regional, and provincial planning policies?
Is the Alternative Feasible and Reasonable?	<ul style="list-style-type: none">• Is the alternative technically feasible and reasonable?• Can the alternative be constructed for a reasonable cost?• Does the alternative provide a long-term solution?
Can the Alternative be implemented without significant impacts?	<ul style="list-style-type: none">• Are the ecological, social, or other impacts anticipated to be unreasonably high relative to other alternatives?



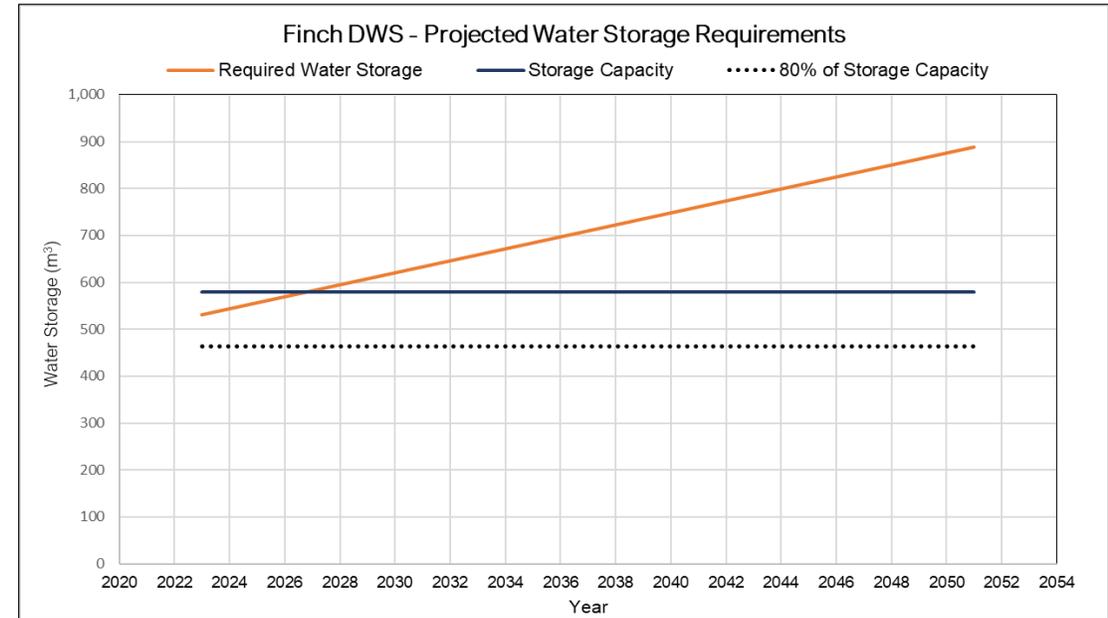
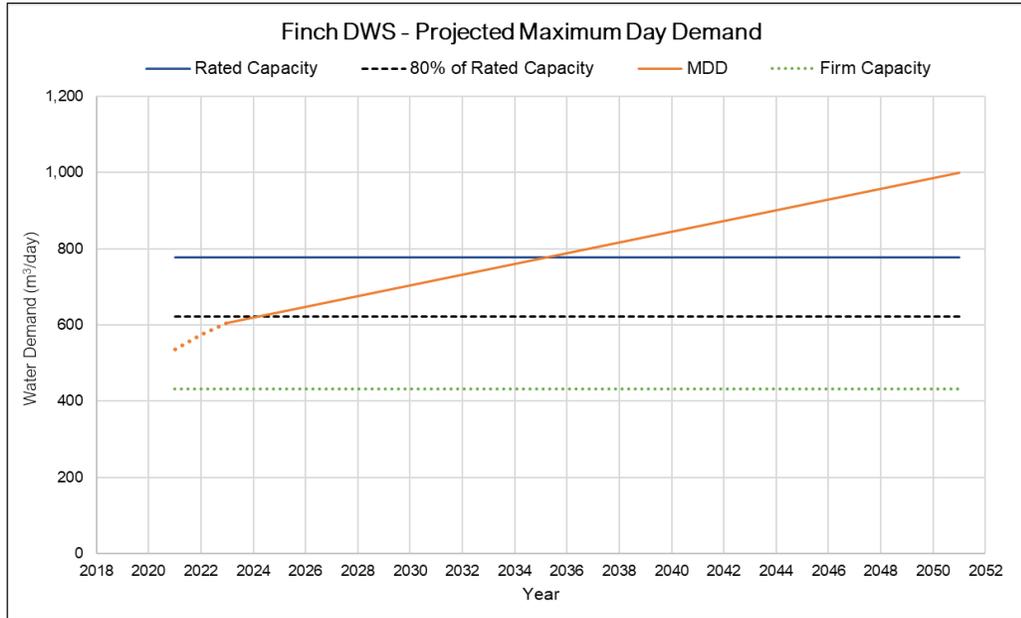
Short List Evaluation Approach and Criteria

The alternatives for each system component were evaluated using the criteria and rating scale below.

Category	General Criteria to Assess Impact	
Technical	<ul style="list-style-type: none"> • Constructability • Improvements to operation 	<ul style="list-style-type: none"> • Infrastructure required • Approval requirements
Social and Cultural	<ul style="list-style-type: none"> • Public requirements 	<ul style="list-style-type: none"> • Impact to build heritage and cultural heritage landscapes
Environmental	<ul style="list-style-type: none"> • Impact to aquatic and terrestrial species and habitat • Impact to surface water quantity and quality 	<ul style="list-style-type: none"> • Climate change resiliency
Economic	<ul style="list-style-type: none"> • Capital costs • Operational and maintenance costs 	<ul style="list-style-type: none"> • User value



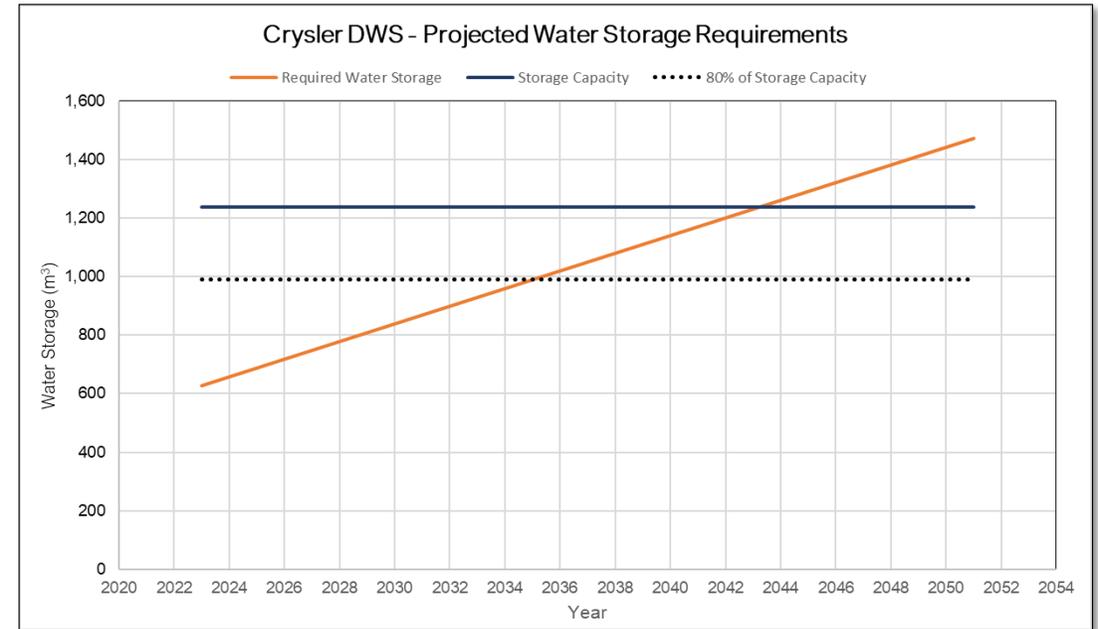
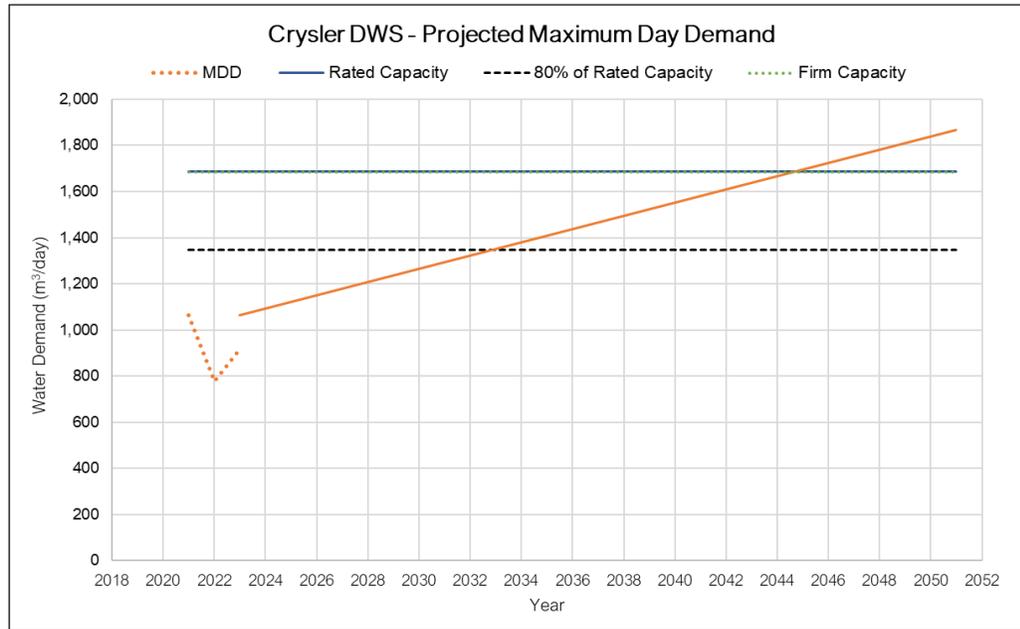
Finch Water System: Current and Future Capacity Requirements



Water Supply: The current rated capacity of the water supply system is 778 m³/day. Water demand will reach 80% of system's rated capacity by approximately 2024. By 2051, a capacity of approximately 1,000 m³/day would be required. Additional water supply capacity would be required to service growth beyond 2035.

Water Storage: The current rated capacity of the elevated water storage tank is 580 m³. As of 2024, storage required is already beyond 80% of its rated capacity. By 2051, a capacity of approximately 888 m³ would be required. Additional water storage capacity would be required to service growth beyond 2027.

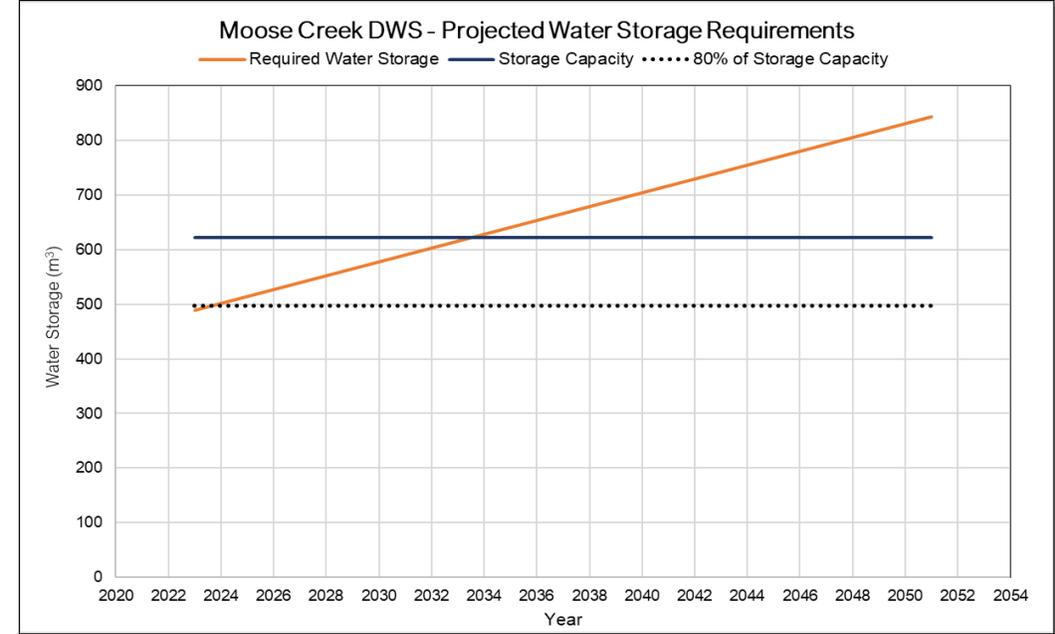
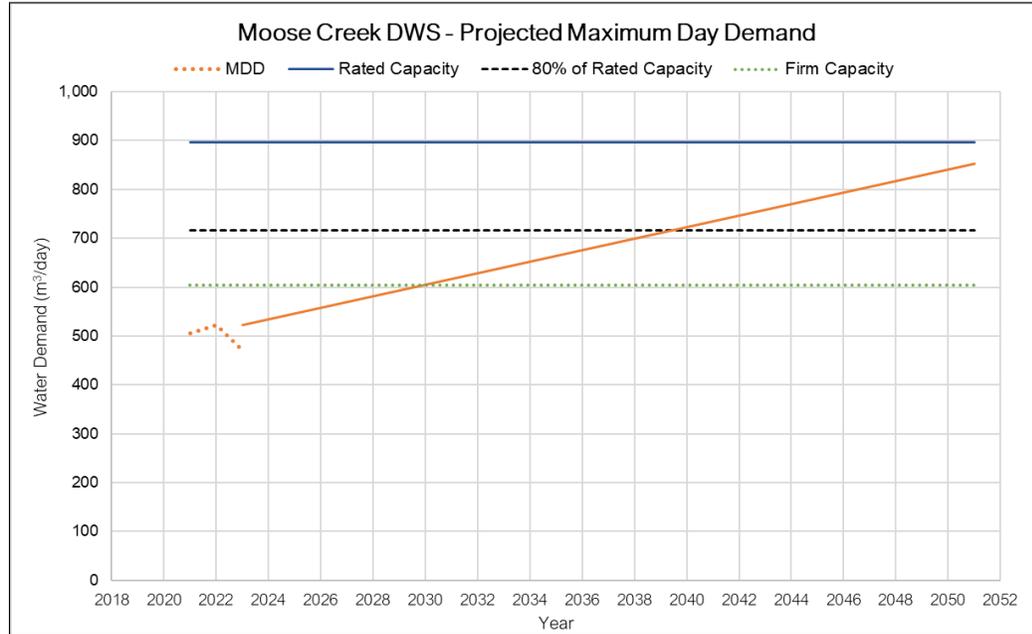
Crysler Water System: Current and Future Capacity Requirements



Water Supply: The current rated capacity of the water supply system is 1,685 m³/day. Water demand will reach 80% of system's rated capacity by approximately 2033. By 2051, a capacity of approximately 1,867 m³/day would be required. Additional water supply capacity would be required to service growth beyond 2044.

Water Storage: The current rated capacity of the elevated water storage tank is 1,238 m³. The water storage tank would reach 80% of its rated capacity by approximately 2035. By 2051, a capacity of approximately 1,473 m³ would be required. Additional water storage capacity would be required to service growth beyond 2042.

Moose Creek Water System: Current and Future Capacity Requirements



Water Supply: The current firm capacity of the water supply system is 600 m³/day. Water demand will reach 80% of system rated capacity by approximately 2039. By 2051, a capacity of approximately 853 m³/day would be required. Additional water supply capacity would be required to ensure water security by 2030.

Water Storage: The current rated capacity of the elevated water storage tank is 622 m³. As of 2024, storage required is already beyond 80% of its rated capacity. By 2051, a capacity of approximately 842 m³ would be required. Additional water storage capacity would be required to service growth beyond 2033.

Water Supply and Storage: Long List of Alternatives and Screening

Alternatives		Does the alternative address the Problem & Opportunity Statement?	Is the alternative technical and economically feasible?	Can the alternative be implemented without significant impacts?	Summary
1	Do Nothing	✗	✗	✗	Not an acceptable solution and is not evaluated further.
2	Limit Growth	✗	✓	✗	Not an acceptable solution and is not evaluated further.
3	Reduce Water Demand (Increase Water Conservation)	✗	✓	✓	This alternative on its own is not acceptable as a complete solution. It will be recommended as a general sustainability goal.
4	Expand Existing Water Supply and Storage System	✓	✓	✓	<p>Water Supply:</p> <ul style="list-style-type: none"> ➤ Alternative 4A-1: A new well to be drilled at the same location as the existing wells; or ➤ Alternative 4A-2: A new well in a new wellfield. <p>Water Storage:</p> <ul style="list-style-type: none"> ➤ Alternative 4B-1: New water storage tower/standpipe in addition to the existing storage facility; or ➤ Alternative 4B-2: New at-grade water storage tank at the WTP in addition to the existing storage facility
5	Obtain Water from Another Source	✓	✗	✗	Will require land acquisition, high capital costs, permit and other requirements. Therefore, not evaluated further.

Water Supply: Short List and Detailed Evaluation Summary

Evaluation Criteria	Alternative 4A-1: New Well in Same Wellfield	Rating	Alternative 4A -2: New Well in New Wellfield	Rating
Technical	<ul style="list-style-type: none"> Allows reduction in the hydrogeological investigations needed Current treatment processes can be upsized within the same building Schedule B Class EA study required 		<ul style="list-style-type: none"> New WTP required at new wellfield location New trunk main to be installed up to the connection point of the existing watermain Schedule C Class EA study required 	
Social and Cultural	<ul style="list-style-type: none"> Would not require land acquisition Potential impacts Known archaeological and cultural conditions 		<ul style="list-style-type: none"> Would require land acquisition Ensures water security and redundancy 	
Environment	<ul style="list-style-type: none"> Implementation within known and previously investigated environmental conditions 		<ul style="list-style-type: none"> Unknown environmental conditions until specific site is selected 	
Economic	<ul style="list-style-type: none"> Minimizes cost of conveying raw water to WTP Lower capital cost than Alternative 4A-2 		<ul style="list-style-type: none"> Large capital cost (cost associated with additional infrastructure and complexity of investigation prior to construction) 	
Overall Score and Summary	Recommended Alternative		Not recommended due to large capital cost and complex implementation	

Water Supply Recommended Solution

Preferred water supply expansion strategy is Alternative 4A: *New Well in the Same Wellfield.*

- **Finch:**
 - Firm capacity expansion from 777 m³/day (existing) to 1000 m³/day (year 2051).
 - Recommended timeline:
 - Well Exploration: 2023-2030;
 - Project Implementation: 2031-2036
- **Crysler:**
 - Firm capacity expansion from 1,685 m³/day to 1,760 m³/day.
 - Recommended timeline:
 - Well Exploration: 2037-2042;
 - Project Implementation: 2043-2048
- **Moose Creek:**
 - Firm capacity expansion from 600 m³/day to 850 m³/day.
 - Recommended timeline: 2025-2030

Next Steps:

- Hydrogeological investigations required to confirm water quantity & quality, and to confirm ability to supply required future capacity;
- Preparation of a mitigation procedure or plan to address ss identified water security risks in the investigation; and
- Implement water meters to ensure sustainable water usage that may significantly impact timeline of the capacity exceedances.



Water Storage: Short List and Detailed Evaluation Summary

Evaluation Criteria	4B-1: New Elevated Storage Facility	Rating	4B-2: New At-Grade Storage Facility	Rating
Technical	<ul style="list-style-type: none"> Requires construction of a new booster pumping station Re-chlorination required Reduced pumping requirements in distribution system due to head from standpipe 		<ul style="list-style-type: none"> Recirculation of water through tank to prevent unused water residual Potential for increased chlorine contact time Relocation of high lift pumps 	
Social and Cultural	<ul style="list-style-type: none"> Requires land acquisition Ensures water security and redundancy Aesthetic impacts to surrounding properties Schedule B Study required 		<ul style="list-style-type: none"> No land acquisition required Prevent unused water residual Known archaeological and cultural conditions 	
Environment	<ul style="list-style-type: none"> Unknown environmental conditions until specific site is selected 		<ul style="list-style-type: none"> Construction on known site 	
Economic	<ul style="list-style-type: none"> Large capital cost (entirely new standpipe) 		<ul style="list-style-type: none"> Lower capital cost (underground storage tank) than Alternative 4B-1 	
Overall Score and Summary	Not recommended due to large capital cost, requirement for land acquisition and		Recommended Alternative	

Water Storage Recommended Solution

Preferred water storage expansion strategy is Alternative 4B-2: *New At-Grade Storage Facility*.

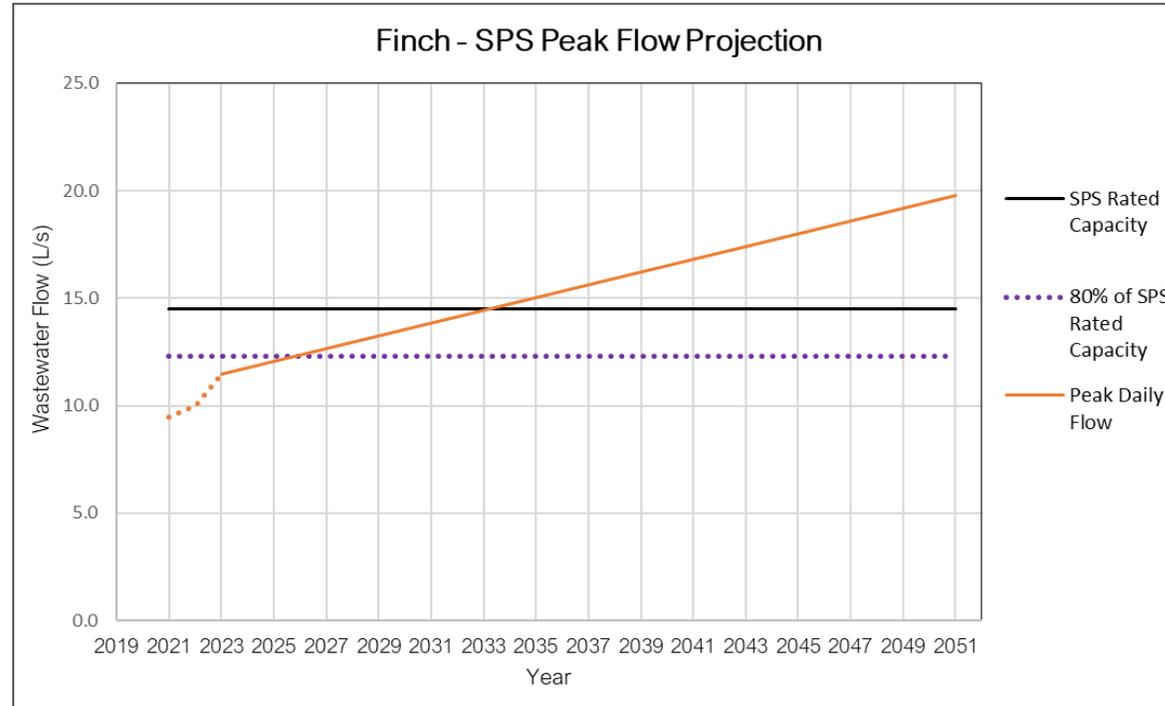
- **Finch:**
 - Storage volume expansion from 580 m³ (existing) to 900 m³ (year 2051).
 - Recommended timeline: 2025-2030
- **Crysler:**
 - Storage volume expansion from 1,238 m³ to 1,500 m³.
 - Recommended timeline: 2037-2042
- **Moose Creek:**
 - Storage volume expansion from 622 m³ to 842 m³.
 - Recommended timeline: 2031-2036

Next Steps:

- Proceed to detailed design; and
- Implementation of selected strategy within the recommended timeline.



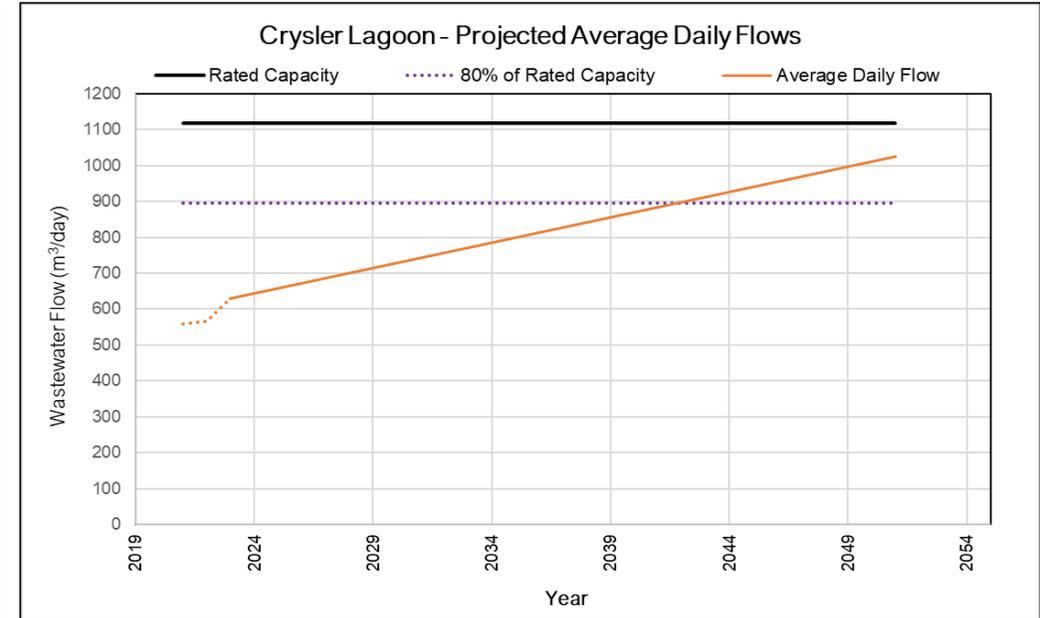
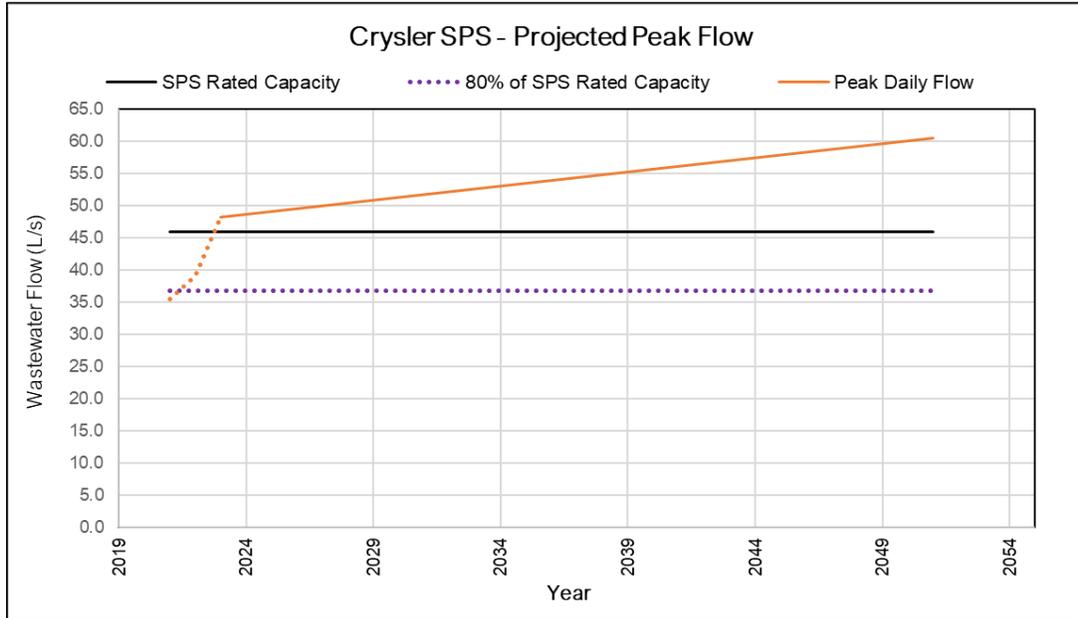
Finch Wastewater System: Current and Future Capacity Requirements



Wastewater Collection System (SPS): Finch's wastewater peak flow projected to 2051 is estimated at 20 L/s. Rated capacity of Sewage Pumping Station (SPS) is estimated to be exceeded by year 2033.



Crysler Wastewater System: Current and Future Capacity Requirements

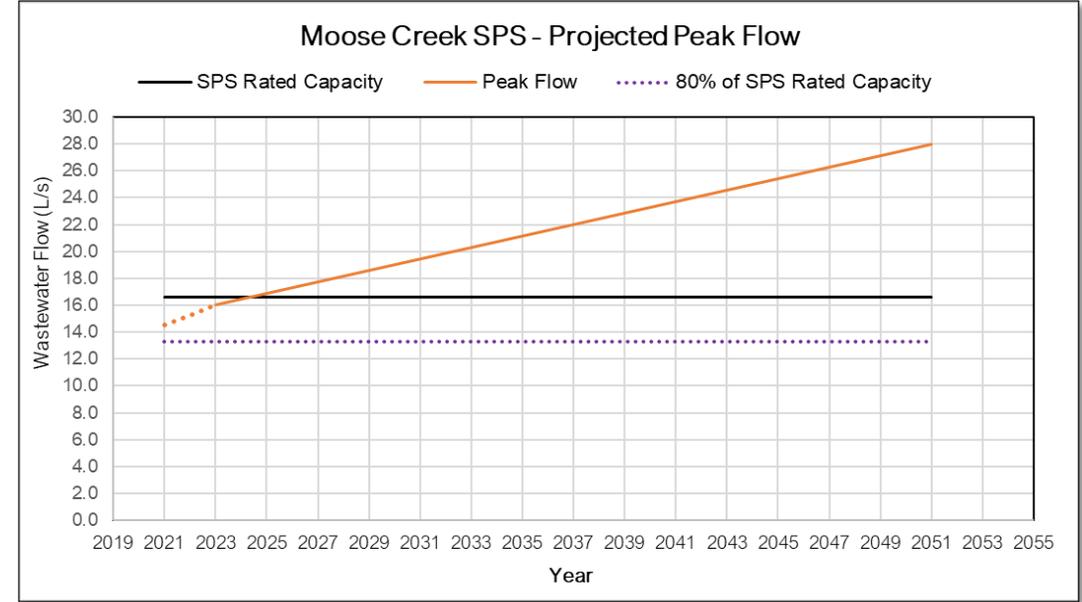
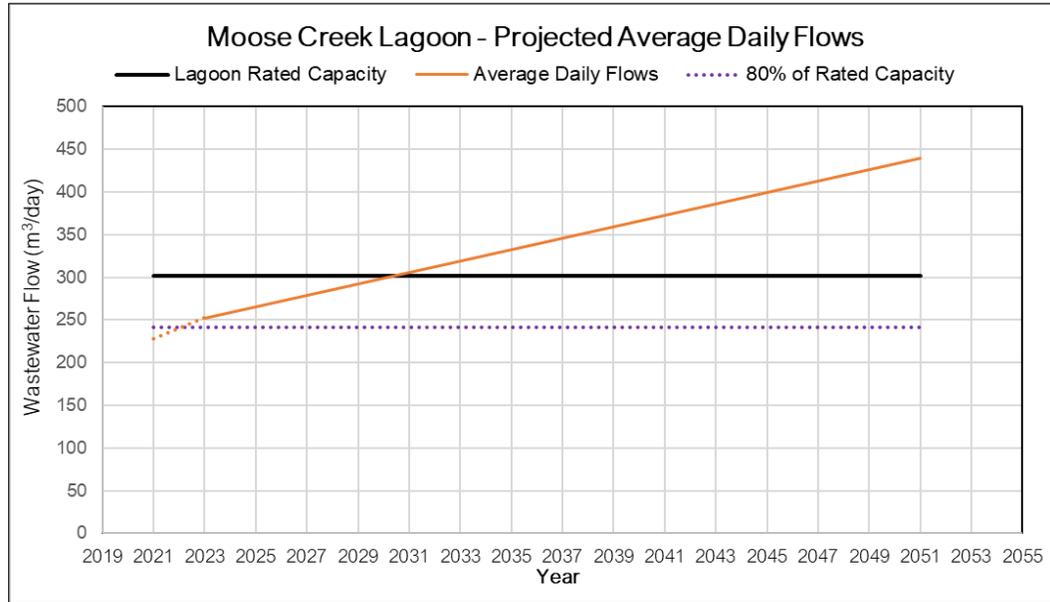


Wastewater Collection System (SPS): Chrysler's wastewater peak flow projected to 2051 is estimated at 60.6 L/s. The SPS's rated capacity is already in exceedance as of 2024. With the G&E Subdivision development, the committed capacity of the Chrysler WWTS is at 81% as of 2023.

Wastewater Treatment Lagoons: Existing lagoons have capacity to provide treatment up to 2051. However, 80% of rated capacity is reached by year 2040.



Moose Creek Wastewater System: Current and Future Capacity Requirements



Wastewater Collection System (SPS): Moose Creek’s wastewater peak flow projected to 2051 is estimated at 29 L/s. The SPS’s rated capacity is already in exceedance as of 2024.

Wastewater Treatment Lagoons: Average Daily Flow (ADF) in 2051 is 439 m³/day. Lagoon capacity will be exceeded by year 2030. The ADF is already beyond 80% of the rated capacity as of 2024. Effluent TSS concentration has exceeded the permit limit in 2021 and 2022.



Wastewater Collection and Treatment: Long List of Alternatives and Screening

Alternatives		Does the alternative address the Problem & Opportunity Statement?	Is the alternative technical and economically feasible?	Can the alternative be implemented without significant impacts?	Summary
1	Do Nothing	✘	✘	✘	Not an acceptable solution and is not evaluated further.
2	Limit Growth	✘	✔	✘	Not an acceptable solution and is not evaluated further.
3	Infiltration and Inflow Control and Reduction;	✘	✔	✔	This alternative on its own is not acceptable as a complete solution. It will be recommended as a general sustainability goal.
4	Upgrade Existing WWTS	✔	✔	✔	<p>Wastewater Collection System:</p> <ul style="list-style-type: none"> ➤ Alternative 4A: Upgrade Existing SPS <p>Wastewater Treatment Lagoons:</p> <ul style="list-style-type: none"> ➤ Alternative 4B-1: Lagoon Treatment Optimization ➤ Alternative 4B-2: Modified Lagoon Operation
5	Expand the Existing WWTS	✔	✘	✘	<p>Wastewater Collection System:</p> <ul style="list-style-type: none"> ➤ Alternative 5A: New SPS (replace existing) <p>Wastewater Treatment Lagoons:</p> <ul style="list-style-type: none"> ➤ Alternative 5B-1: New Facultative Lagoon ➤ Alternative 5B-2: Mechanical Treatment Facility <p>Will require land acquisition, high capital costs, permit and other requirements. Therefore, not evaluated further.</p>

Wastewater Collection System: Short List and Detailed Evaluation Summary

Evaluation Criteria	4: Upgrade Existing SPS	Rating	5: Construct a New SPS	Rating
Technical	<ul style="list-style-type: none"> Replacement of existing pumps with larger ones Converting pumps from lead/lag to duty/standby 		<ul style="list-style-type: none"> Construction of new sewage pumping station Existing SPS decommissioned after completed construction 	
Social and Cultural	<ul style="list-style-type: none"> Exempt under MCEA Process; no further study required 		<ul style="list-style-type: none"> Requires land acquisition Schedule B Study required 	
Environment	<ul style="list-style-type: none"> Replacement within existing building 		<ul style="list-style-type: none"> Unknown environmental conditions until specific site is selected 	
Economic	<ul style="list-style-type: none"> Minimal capital costs (only related to pump upgrades) 		<ul style="list-style-type: none"> Large capital costs (entirely new sewage pumping station with new pumps) 	
Overall Score and Summary	Recommended Alternative		Not recommended due to large capital costs	

Wastewater Collection System: Recommended Solution

Collection System: Preferred SPS rated capacity expansion strategy is *Alternative 4A: Upgrade Existing SPS*

- **Finch:**
 - Rated Capacity expansion from 14.5 L/s (existing) to 20.0 L/s (year 2051).
 - Recommended timeline: 2031-2036

- **Crysler:**
 - Rated Capacity expansion from 46.0 L/s to 60.6 L/s.
 - Recommended timeline: 2025-2030

- **Moose Creek:**
 - Rated Capacity expansion from 16.6 L/s to 28.0 L/s.
 - Recommended timeline: 2025-2030

Next Steps:

- Detailed condition assessment of the SPS to determine refurbishment needs as concerns regarding deteriorating conditions (concrete pitting, odor, deteriorated ladders due to corrosion etc.) have been raised.
- If SPS are beyond rehabilitation, undertake a SPS Replacement project and update capital plan with a phased approach.



Moose Creek Wastewater Treatment Lagoons: Short List and Detailed Evaluation Summary

Evaluation Criteria	Alternative 4B-1: Upgrade Existing Lagoons	Rating	Alternative 4B-2: Modified Lagoon Operation	Rating
Technical	<ul style="list-style-type: none"> • New proposed technology requiring operator training • Potential for optimization of process units and further capacity expansion 		<ul style="list-style-type: none"> • Ease of construction • No complex technology/relatively simple operation • Ample capacity for bypass for maintenance requirements • Preliminary treatment and RAS processes required 	
Social and Cultural	<ul style="list-style-type: none"> • All proposed upgrades can possibly fit within the municipal property and no land acquisition is anticipated 		<ul style="list-style-type: none"> • All proposed upgrades can possibly fit within the municipal property and no land acquisition is anticipated 	
Environment	<ul style="list-style-type: none"> • Land modifications required for the SAGR system 		<ul style="list-style-type: none"> • No land acquisition required • Impacts due to construction can be addressed by industry recommended construction practices 	
Economic	<ul style="list-style-type: none"> • Capital costs lower than Alternative 4B-2 		<ul style="list-style-type: none"> • Large capital costs 	
Overall Score and Summary	Recommended Alternative		Not recommended due to large capital costs	

Wastewater Treatment Lagoons: Recommended Solution

Preferred strategy for Moose Creek lagoon rated capacity expansion is Alternative 4B-1: *Upgrade Existing Lagoons*

- Rated Capacity expansion from 302 m³/day (existing) to 450 m³/day (year 2051).
- Recommended timeline:
 - Class EA, Design and Construction: 2025 - 2030

Next Steps for Moose Creek Lagoon Expansion:

- An assimilative capacity study is required to confirm effluent discharge capacity, and to confirm if this would support the required future capacity.
- Additional investigation (environmental, archaeological, cultural heritage) required in the future to fulfill requirements of a Schedule C Class EA process.
- Future Schedule C Class EA would confirm preferred solution including technology and footprint requirements.



Next Steps

Following this Public Information Centre (PIC), the Project Team will receive and consider comments from PIC participants and other interested parties.

Feedback received will be considered in finalizing the recommended solutions and will be documented through the Master Servicing Study Report.

The next opportunities for public notification and input will include:

Opportunity	Anticipated Date
Notice of Study Completion Published	Late 2024
Final Report Available for 30-Day Public Review and Comment	Late 2024



Thank you for Attending!

Questions or Comments ?

- Complete a comment sheet this evening or submit comments to a member of the project team.
- More information including copies of project notices and PIC materials can be found at:

<https://www.northstormont.ca/>

Craig Calder

CAO/Clerk
Township of North Stormont
15 Union Street
Berwick, ON K0C 1G0
613-984-2821 ext. 223
ccalder@northstormont.ca

Trevor Kealey, P.Eng.

Project Director
R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite
300
Toronto, ON M2J 4Z8
613-226-1844 ext. 3230
tkealey@rvanderson.com

Please Provide your comments by October 2024
Include Subject Line: North Stormont MSS PIC





THE TOWNSHIP OF NORTH STORMONT
VILLAGES OF CRYSLER, FINCH, AND MOOSE CREEK
WATER AND WASTEWATER MASTER SERVICING PLAN
Public Information Session # 1
September 17, 2024

COMMENT SHEET

If you have any comments/questions that you would like to provide the Study Team, please fill out this form and your comments will be reviewed, and you will receive a response.

Name:	
Contact Information: (to provide a reply)	(Please include one of email address, phone number, address)

COMMENTS:

(Additional room on the back of the page to continue comments)

Please submit comments in comment box at meeting or else forward your comments to the following members of the study team below:

Craig Calder
CAO/Clerk
Township of North Stormont
15 Union Street
Berwick, ON K0C 1G0
613-984-2821 ext. 223
ccalder@northstormont.ca

Trevor Kealey, P.Eng.
Project Director
R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300
Toronto, ON M2J 4Z8
613-226-1844 ext. 3230
tkealey@rvanderson.com



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COMMENT SHEET

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Name:	
Contact Information: (to provide a reply)	(Please include one of email address, phone number, address)

COMMENTS:

Very informative very glad system can be upgraded and not enlarged.

(Additional room on the back of the page to continue comments)

Please submit comments in comment box at meeting or else forward your comments to the following members of the study team below:

Craig Calder
CAO/Clerk
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NOTICE OF PUBLIC INFORMATION CENTRE #1

VILLAGES OF CRYSLER, FINCH, AND MOOSE CREEK WATER AND WASTEWATER MASTER SERVICING PLAN FOR THE TOWNSHIP OF NORTH STORMONT

The Township of North Stormont has initiated a Water and Wastewater Master Servicing Plan (MSP) for the future growth in the villages of Crysler, Finch, and Moose Creek. The Township of North Stormont is completing this Water and Wastewater MSP to identify high level strategies for existing and future water and wastewater servicing in the Township.

The preferred servicing strategies will:

- Support service area growth to 2051 while considering opportunities for operational flexibility and redundancy, as well as for optimization and improvement of the existing systems;
- Provide resiliency to potential future changes to regulatory and climatic conditions;
- Balance environmental, social, technical, and economic considerations.

The project is being completed as an **Approach No. 1 Master Plan** project under the framework of the **Municipal Class Environmental Assessment** (October 2000, amended in 2007, 2011, 2015, & 2023), which is approved under the Ontario Environmental Assessment Act. The study will address the requirements of Phase 1 and part of Phase 2 of the Municipal Class EA process.

How do I Participate?

We are hosting Public Information Centre #1 to report on the progress of the study and provide members of the public with an opportunity to provide comments prior to its finalization. The Public Information Centre will be hosted in person and will include presentation boards and the opportunity for the public to ask questions of the project team.

When: Tuesday, September 17, 2024, from 6:00 – 9:00 p.m.

Where: Moose Creek Recreational Hall

How: In-person.

The presentation boards from the meeting will be posted on the project webpage following the meeting: <https://www.northstormont.ca/>.

If you have any questions or comments regarding the study, or wish to be added to the project contact list to receive notices, please contact a member of the project team:

Craig Calder CAO/Clerk Township of North Stormont 15 Union Street Berwick, ON K0C 1G0 613-984-2821 ext. 223 ccalder@northstormont.ca	Trevor Kealey, P.Eng. Project Director R.V. Anderson Associates Limited 2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8 613-226-1844 ext. 3230 tkealey@rvanderson.com
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This notice first issued September 2nd, 2024

Copilot

Here are some questions you might consider posing at a public forum focused on drinking water and sewage water management over the next 30 years:

Drinking Water

1. Quality and Safety

- What measures are being taken to ensure the long-term safety and quality of our drinking water?
- How are emerging contaminants, such as pharmaceuticals and microplastics, being addressed?
- What are the plans for upgrading aging infrastructure to prevent contamination?

2. Sustainability and Conservation

- What strategies are in place to promote water conservation among residents and businesses?
- How is climate change expected to impact our water supply, and what are the plans to mitigate these effects?
- Are there any initiatives to recycle or reuse water to reduce overall consumption?

3. Public Health and Education

- How is the community being educated about the importance of water conservation and safe water practices?
- What steps are being taken to ensure vulnerable populations have access to safe drinking water?
- How are water quality issues communicated to the public, and what is the protocol for addressing public concerns?

Sewage Water

4. Treatment and Management

- What advancements in sewage treatment technology are being considered to improve efficiency and reduce environmental impact?

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- How are stormwater and sewage overflows being managed to prevent contamination of local water bodies?
- What are the plans for handling increased sewage loads due to population growth?

5. Environmental Impact

- How is the impact of sewage discharge on local ecosystems being monitored and mitigated?
- What measures are in place to reduce the release of harmful substances, such as heavy metals and endocrine disruptors, into the environment?
- Are there any initiatives to use treated sewage water for non-potable purposes, such as irrigation or industrial use?

6. Regulation and Compliance

- How are local regulations evolving to address new challenges in sewage management?
- What are the penalties for non-compliance with sewage treatment standards, and how are they enforced?
- How is the community involved in decision-making processes regarding sewage management projects?

These questions can help ensure a comprehensive discussion on the future of drinking water and sewage water management, addressing both immediate concerns and long-term strategies¹²³.

Is there a specific aspect of water management you're particularly interested in?

Source(s)

1. [Overview of the Microbiological Aspects of Drinking Water Quality](#)
2. [Science assessment of the impacts of municipal wastewater effluent ...](#)
3. [Taking Care of Your Drinking Water: A Guide for Members of Municipal...](#)

Copilot

Aging infrastructure poses several risks, particularly when it comes to drinking water and sewage systems. Here are some key concerns:

Drinking Water

1. Contamination

- **Leaky Pipes:** Old pipes can develop leaks, allowing contaminants to enter the water supply.
- **Corrosion:** Corroded pipes can release harmful metals like lead and copper into the drinking water.

2. Service Interruptions

- **Breakages:** Aging pipes are more prone to breaking, which can disrupt water supply and require costly repairs.
- **Pressure Issues:** Old infrastructure can lead to inconsistent water pressure, affecting the delivery of water to homes and businesses.

3. Inefficiency

- **Water Loss:** Leaks and breaks in old pipes can result in significant water loss, reducing the efficiency of the water supply system.
- **High Maintenance Costs:** Older systems often require more frequent and expensive maintenance.

Sewage Water

4. Environmental Contamination

- **Sewage Overflows:** Aging sewage systems are more likely to overflow during heavy rains, leading to contamination of local water bodies.
- **Inadequate Treatment:** Old treatment plants may not be equipped to handle modern pollutants, resulting in untreated or inadequately treated sewage being released into the environment.

5. Health Risks

Powered by AI

- **Exposure to Pathogens:** Leaks and overflows can expose the public to harmful pathogens, increasing the risk of waterborne diseases.
- **Chemical Contaminants:** Aging infrastructure may not effectively remove newer chemical contaminants, posing health risks to the community.

6. Operational Challenges

- **Frequent Breakdowns:** Old equipment is more prone to breakdowns, leading to service interruptions and increased repair costs.
- **Capacity Issues:** Aging systems may not be able to handle increased loads due to population growth, leading to inefficiencies and potential failures.

Addressing these risks typically involves significant investment in upgrading and maintaining infrastructure to ensure safe, reliable, and efficient water and sewage systems.

Are there any specific aspects of aging infrastructure you're particularly concerned about?



THE TOWNSHIP OF NORTH STORMONT
VILLAGES OF CRYSLER, FINCH, AND MOOSE CREEK
WATER AND WASTEWATER MASTER SERVICING PLAN
 Public Information Session # 1
 September 17, 2024

COMMENT SHEET

If you have any comments/questions that you would like to provide the Study Team, please fill out this form and your comments will be reviewed, and you will receive a response.

Name:	François Lafleur - EVB Engineering
Contact Information: (to provide a reply)	francois.lafleur@evbengineering.com, 613-935-3775 (Please include one of email address, phone number, address)

COMMENTS:

We wish to make the following comments on the PIC boards and information provided:
- further to discussions with G&E Reno, we anticipate a shortfall of Crysler water allocations sometime between 2029 and 2030 when considering only the McBain Land Subdivision, much earlier than shown on slide #12. This is based on a sales target of ~30 units per year. We respectfully request that calculations be updated to reflect G&E's expected timelines, and that the Township prioritize the implementation of upgrades to the water system to not delay development and growth. Additional information will follow shortly in a technical memorandum.
- with regards to wastewater, we understand the capacity of the existing Crysler pumping station is the ultimate limiting factor as noted in the Reserve Capacity Study Update (April 12, 2024).

(Additional room on the back of the page to continue comments)

Please submit comments in comment box at meeting or else forward your comments to the following members of the study team below:

Craig Calder
 CAO/Clerk
 Township of North Stormont
 15 Union Street
 Berwick, ON K0C 1G0
 613-984-2821 ext. 223
 ccalder@northstormont.ca

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COMMENT SHEET

ADDITIONAL COMMENTS:

However, it should be noted that G&E's subdivision does not discharge into the existing Cryslers
pumping station, hence the limiting factor for the G&E subdivision is the lagoon capacity which is
much greater (600 lots as per the Reserve Capacity Study Update). Furthermore, sewage from
90 units (Flagstone Meadows) will be redirected from the existing Cryslers pumping station into the
new G&E pumping station as discussed in our Servicing Report for the subdivision, which will
result in a reduction in flow at the existing pumping station. We respectfully request that
calculations be updated to reflect the above, and that the Township increase its uncommitted
allocations for sewage for the G&E subdivision to match the lagoon capacity rather than the
capacity of the existing pumping station.
We appreciate the opportunity to review & comment on the above, and we remain available for
discussion should you require any further information.

Appendix B-4

Responses Received



RE: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

FROM:	Doug Renaud	SENT:	2024-05-30 6:42:55 PM UTC
TO:	"NLee@rvanderson.com" <NLee@rvanderson.com>		
CC:	Danielle Ward <dward@northdundas.com>		
ATTACHMENTS:			

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Natasha,

Thank you for the information page, could you please send any further notices or information to my attention and Danielle Ward in cc of this email on behalf of the Township of North Dundas.

Thanks,



Doug Renaud

Infrastructure Coordinator
Township of North Dundas
636 St. Lawrence Street, P.O. Box 489, Winchester, ON K0C 2K0
P: (613) 774-2105 x 269
F: (613) 774-5699
E: drenaud@northdundas.com
W: www.northdundas.com



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From: info <info@northdundas.com>
Sent: Thursday, May 30, 2024 1:32 PM
To: Danielle Ward <dward@northdundas.com>
Cc: Doug Renaud <drenaud@northdundas.com>
Subject: FW: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

From: Carol Derrick <cderrick@rvanderson.com>
Sent: Thursday, May 30, 2024 1:26 PM
Cc: Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>

Subject: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

On behalf of the Township of North Stormont, please see enclosed the Notice of Commencement and Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Chrysler.

This notice is sent to your attention as it was deemed that you may be an interested stakeholder.

Should you wish to stop receiving notices pertaining to this project or would like to direct it to an alternate recipient, please advise the undersigned.

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

Encls: Notice of Commencement

R.V. Anderson Associates Limited has been engaged in the provision of professional engineering, operations, and management services since 1948. This message is intended only for the use of the individual(s) to whom it is addressed. If you are not the intended recipient(s), disclosure, copying, distribution and use are prohibited; please notify us immediately and delete this email from your systems. Please see <http://www.rvanderson.com> for Copyright and Terms of Use.



FW: 2024-05-30-MNRFcomment-NoC-WandWWmasterplan-NorthStormontTwp

From Natasha Lee <NLee@rvanderson.com>
Date Tue 6/4/2024 1:59 PM
To Samson Tso <stso@rvanderson.com>
Cc Darika Sharma <DSharma@rvanderson.com>

2 attachments (741 KB)

R226348-20240530- Notice of Study Commencement.pdf; 2024-05-30-MNRFcomments-NoC-WandWWmasterplan-NorthStormontTwp.pdf;

Hi Samson,

Please file this email on the network and log in the comments log.

Thanks,
Natasha

From: Kennedy, Adam (MNRF) <Adam.Kennedy@ontario.ca>
Sent: Thursday, May 30, 2024 4:04 PM
To: Natasha Lee <NLee@rvanderson.com>; ccalders <ccalders@northstormont.ca>
Cc: Kennedy, Adam (MNRF) <Adam.Kennedy@ontario.ca>
Subject: 2024-05-30-MNRFcomment-NoC-WandWWmasterplan-NorthStormontTwp

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Natasha and Craig,

Please find Ministry of Natural Resources and Forestry comments attached per the attached Notice of Commencement circulation – Twp of North Stormont Water and Wastewater Master Servicing Plan – Villages of Crysler, Finch and Moose Creek.

If you have any questions please let me know.

Regards,
Adam

Adam Kennedy
Regional Planner | LUPSI
Southern Region | ROD
Ontario Ministry of Natural Resources and Forestry | Ontario Public Service
Adam.Kennedy@Ontario.ca | (705) 761-3374



Taking pride in strengthening Ontario, its places and its people

From: Carol Derrick <cderrick@rvanderson.com>

Sent: Thursday, May 30, 2024 1:26 PM

Cc: Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>

Subject: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

On behalf of the Township of North Stormont, please see enclosed the Notice of Commencement and Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

This notice is sent to your attention as it was deemed that you may be an interested stakeholder.

Should you wish to stop receiving notices pertaining to this project or would like to direct it to an alternate recipient, please advise the undersigned.

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

Encls: Notice of Commencement

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Ministry of Natural Resources and Forestry

Land Use Planning and Strategic Issues Section
Southern Region

Regional Operations Division
300 Water Street
Peterborough, ON K9J 3C7
Tel.: 705 761-4839

Ministère des Richesses naturelles et des Forêts

Section de l'aménagement du territoire et des questions stratégiques
Région du Sud

Division des opérations régionales
300, rue Water
Peterborough (ON) K9J 3C7
Tél. : 705 761-4839



May 30, 2024

To Craig Calder and Natasha Lee

SUBJECT: Notice of Study Commencement – Villages of Crysler, Finch and Moose Creek – Water and Wastewater Master Servicing Plan for the Township of North Stormont

The Ministry of Natural Resources and Forestry (MNRF) received the Notice of Project Commencement on May 30, 2024. Thank you for circulating this to our office. Please note that we have not completed a screening of natural heritage or other resource values for the project at this time. This response, however, does provide information to guide you in identifying and assessing natural features and resources as required by applicable policies and legislation, as well as engaging with the Ministry for advice as needed.

Please also note that it is the proponent's responsibility to be aware of, and comply with, all relevant federal or provincial legislation, municipal by-laws or other agency approvals.

Natural Heritage

MNRF's natural heritage and natural resources GIS data layers can be obtained through the Ministry's [Land Information Ontario \(LIO\)](#) website. You may also view natural heritage information online (e.g., Provincially Significant Wetlands, ANSI's, woodlands, etc.) using the [Make a Map: Natural Heritage Areas](#) tool.

We recommend that you use the above-noted sources of information during the review of your project proposal.

Natural Hazards

A series of natural hazard technical guides developed by MNRF are available to support municipalities and conservation authorities implement the natural hazard policies in the Provincial Policy Statement (PPS). For example, standards to address flood risks and the potential impacts and costs from riverine flooding are addressed in the *Technical Guide River and Stream Systems: Flooding Hazard Limit (2002)*. We recommend that you consider these technical guides as you assess specific improvement projects that can be undertaken to reduce the risk of flooding.

Petroleum Wells & Oil, Gas and Salt Resources Act

There may be petroleum wells within the proposed project area. Please consult the Ontario Oil, Gas and Salt Resources Library website (www.ogsrlibrary.com) for the best-known data on any wells recorded by MNRF. Please reference the 'Definitions and Terminology Guide' listed in the publications on the library website to better understand the well information available. Any oil and gas wells in your project area are regulated by the *Oil, Gas and Salt Resource Act*, and the supporting regulations and operating standards. If any unanticipated wells are encountered during development of the project, or if the proponent has questions regarding petroleum operations, the proponent should contact the Petroleum Operations Section at POSRecords@ontario.ca or 519-873-4634.

Fish and Wildlife Conservation Act

Please note, that should the project require:

- The relocation of fish outside of the work area, a Licence to Collect Fish for Scientific Purposes under the *Fish and Wildlife Conservation Act* will be required.
- The relocation of wildlife outside of the work area (including amphibians, reptiles, and small mammals), a Wildlife Collector's Authorization under the *Fish and Wildlife Conservation Act* will be required.

Public Lands Act & Lakes and Rivers Improvement Act

Some Projects may be subject to the provisions of the *Public Lands Act* or *Lakes and River Improvement Act*. Please review the information on MNRF's web pages provided below regarding when an approval is, or is not, required.

- For more information about the *Public Lands Act*: <https://www.ontario.ca/page/crown-land-work-permits>
- For more information about the *Lakes and Rivers Improvement Act*: <https://www.ontario.ca/page/lakes-and-rivers-improvement-act-administrative-guide>

After reviewing the information provided, if you have not identified any of MNRF's interests stated above, there is no need to circulate any subsequent notices to our office. If you have identified any of MNRF's interests and/or may require permit(s) or further technical advice, please direct your specific questions to the undersigned.

If you have any questions or concerns, please feel free to contact me.

Best Regards,

Adam Kennedy

Adam Kennedy

Regional Planner | LUPSI

Southern Region | ROD

Ontario Ministry of Natural Resources and Forestry | Ontario Public Service

Adam.Kennedy@Ontario.ca | (705) 761-3374

MCM Response - Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont			
FROM:	Leclerc, Erika (MCM)	SENT:	2024-06-20 8:12:01 PM UTC
TO:	Natasha Lee		
CC:	Carol Derrick; Samson Tso; ccalder; Barboza, Karla (She/Her) (MCM)		
ATTACHMENTS:	2024-05-30 WWMP_NofCommencement.pdf; 2024-06-20 WWMP_NorthStormont_MCMInitialLetter.pdf;		

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Dear Natasha Lee,

Thank you for sending the Notice of Study Commencement for the above-referenced project to the Ministry of Citizenship and Multiculturalism (MCM). Please find attached MCM's initial letter on this project.

Please do not hesitate to reach out if you have any questions.

Best regards,

Erika Leclerc

Heritage Planner | Heritage Branch | Citizenship, Inclusion and Heritage Division
 Ministry of Citizenship and Multiculturalism | Ontario Public Service
 416-305-0757 | erika.leclerc@ontario.ca



Taking pride in strengthening Ontario, its places and its people

From: Carol Derrick <cderrick@rvanderson.com>
Sent: Thursday, May 30, 2024 1:26 PM
Cc: Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>
Subject: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

On behalf of the Township of North Stormont, please see enclosed the Notice of Commencement and Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

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Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

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**Ministry of Citizenship
and Multiculturalism**

Heritage Planning Unit
Heritage Branch
Citizenship, Inclusion and
Heritage Division
5th Flr, 400 University Ave
Tel.: 416-305-0757

**Ministère des Affaires civiques
et du Multiculturalisme**

Unité de la planification relative au
patrimoine
Direction du patrimoine
Division des affaires civiques, de
l'inclusion et du patrimoine
Tél.: 416-305-0757



June 20, 2024

EMAIL ONLY

Natasha Lee, P. Eng
Project Manager
R.V. Anderson and Associates Limited
2001 Sheppard Avenue East, Suite 300
Toronto, ON M2J 4Z8
NLee@rvanderson.com

MCM File : **0021812**
Proponent : **Township of North Stormont**
Subject : **Municipal Class Environmental Assessment – Notice of Study
Commencement – Master Plan Approach #1**
Project : **Villages of Crysler, Finch, and Moose Creek, Water and Wastewater
Master Servicing Plan**
Location : **Township of North Stormont, United Counties of Stormont, Dundas
and Glengarry**

Dear Natasha Lee:

Thank you for providing the Ministry of Citizenship and Multiculturalism (MCM) with the Notice of Study Commencement for the above-referenced project.

MCM's interest in this master plan relates to its mandate of conserving Ontario's cultural heritage, which includes archaeological resources, built heritage resources, and cultural heritage landscapes.

MCM understands that master plans are long range plans which integrate infrastructure requirements for existing and future land use with environmental assessment planning principles. The Municipal Class Environmental Assessment (MCEA) outlines a framework for master plans and associated studies which should recognize the planning and design Process of this Class EA and should incorporate the key principles of successful environmental assessment planning identified in Section A.1.1. The master planning process will, at minimum, address Phases 1 and 2 of the Planning and Design Process of the MCEA.

This letter provides advice on how to incorporate consideration of cultural heritage in the above-mentioned master planning process by outlining the technical cultural heritage studies and the level of detail required to address cultural heritage in master plans. In accordance with the MCEA, cultural heritage resources should be identified early in the process in order to determine known and potential resources and potential impacts.

Master Plan Summary

The Township of North Stormont has initiated a Water and Wastewater Master Servicing Plan (MSP) for the future growth in the villages of Crysler, Finch, and Moose Creek. The Township of North Stormont is completing this Water and Wastewater MSP to identify high level strategies for existing and future water and wastewater servicing in the Township. The project is being completed as an Approach No. 1 Master Plan project under the framework of the MCEA.

Identifying Cultural Heritage Resources

MCM understands that the master plan would typically be done at a broad level of assessment thereby requiring more detailed investigations at the project-specific level. Therefore, a description of the existing conditions related to cultural heritage resources needs to be included in the master plan document.

Archaeological Resources

The existing conditions sub-section should indicate if the master plan includes areas of archaeological potential or not and acknowledge that archaeological assessments will be required for future project-specific projects. The proponents should refer to an archaeological management plan or a data sharing agreement, should they exist. In their absence, the Ministry's screening checklists can help determine whether archaeological assessments will be needed for subsequent project undertakings: [Criteria for Evaluating Archaeological Potential](#) and [Criteria for Evaluating Marine Archaeological Potential](#) (if shoreline or in-water works are proposed).

A statement should be included that archaeological assessments are to be undertaken by an archaeologist licensed under the Ontario Heritage Act and that archaeological assessment reports must be submitted for MCM review prior to the completion of the environmental assessment and prior to any ground disturbance. Some municipalities may also elect to have a Stage 1 archaeological assessment undertaken for a master plan area.

Built Heritage Resources and Cultural Heritage Landscapes

MCM recommends that an Existing Conditions Report be undertaken by a qualified person, which will include a historical summary of the study area's development, identifying all known or potential built heritage resources and cultural heritage landscapes within the study area. The findings of the existing conditions report should be included in the existing conditions subsection of the master plan document.

Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, Municipal Heritage Committees, community heritage registers, historical societies, and other local heritage organizations.

Cultural heritage resources are often of critical importance to Indigenous communities. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and any engagement with Indigenous communities should include a discussion about known or potential cultural heritage resources that are of value to them.

Subsequent Municipal Class EA Undertakings

The recommendations outlined above can be used in support of any future technical cultural heritage studies required for any Schedule B and C MCEA undertakings identified within the master planning area. Technical cultural heritage studies are to be undertaken by a qualified person who has expertise, recent experience, and knowledge relevant to the type of cultural heritage resources being considered and the nature of the activity being proposed. Please advise MCM whether any technical cultural heritage studies will be completed for this master plan and provide them to MCM before issuing a Notice of Completion.

Please note that the responsibility for administration of the *Ontario Heritage Act* and matters related to cultural heritage have been transferred from the Ministry of Tourism, Culture and Sport (MTCS) to the Ministry of Citizenship and Multiculturalism (MCM). Individual staff roles and contact information remain unchanged. Please continue to send any notices, report and/or documentation to both Karla Barboza and myself.

- Karla Barboza, Team Lead - Heritage | Heritage Planning Unit (Citizenship and Multiculturalism) | 416-660-1027 | karla.barboza@ontario.ca
- Erika Leclerc, Heritage Planner | Heritage Planning Unit (Citizenship and Multiculturalism) | 416-305-0757 | erika.leclerc@ontario.ca

Thank you for consulting MCM on this project. Please continue to do so through the master plan process and contact me for any questions or clarification.

Sincerely,

Erika Leclerc
Heritage Planner
Erika.leclerc@ontario.ca

Copied to: Craig Calder, CAO/Clerk, Township of North Stormont
Carrol Derrick, R.V. Anderson and Associates Limited
Samson Tso, R.V. Anderson and Associates Limited
Karla Barboza, Team Lead – Heritage Planning Unit, MCM

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. The Ministry of Citizenship and Multiculturalism (MCM) makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MCM be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33* requires that any person discovering human remains must cease all activities immediately and notify the police or coroner. If the coroner does not suspect foul play in the disposition of the remains, in accordance with *Ontario Regulation 30/11* the coroner shall notify the Registrar, Ontario Ministry of Public and Business Service Delivery, which administers provisions of that Act related to burial sites. In situations where human remains are associated with archaeological resources, the Ministry of Citizenship and Multiculturalism should also be notified (at archaeology@ontario.ca) to ensure that the archaeological site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.



FW: Master Service Plan - Hydro One Response

From Natasha Lee <NLee@rvanderson.com>
Date Wed 6/5/2024 11:01 AM
To Samson Tso <stso@rvanderson.com>
Cc Darika Sharma <DSharma@rvanderson.com>; Trevor Kealey <tkealey@rvanderson.com>

2 attachments (321 KB)

20240605-NoticeOfCommence-Water and Wastewater Master Servicing Plan.pdf; 19817.pdf;

Please review, file, log.

Thanks,
Natasha

-----Original Message-----

From: Craig Calder <ccalder@northstormont.ca>
Sent: Wednesday, June 5, 2024 11:00 AM
To: Trevor Kealey <tkealey@rvanderson.com>; Natasha Lee <NLee@rvanderson.com>
Cc: Blake Henderson <bhenderson@northstormont.ca>; Dawn Crump <DCrump@ocwa.com>; Francois Landry <flandry@northstormont.ca>
Subject: Master Service Plan - Hydro One Response

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

Hi Trevor and Natasha:

Please see the response from Hydro. Should the report produce significant infrastructure installation/expansion requirements this may require Hydro works and include an expansion or transmission line replacement and/or relocation. The letter indicates this would trigger an Environmental Assessment (EA) that would require a minimum of 6 months to complete. (or up to 18 months if a Full Class EA were to be required) to be completed. The Hydro letter clearly outlines all associated costs will be allocated and recovered from proponents in accordance with the Transmission System Code.

-----Original Message-----

From: SUN Hongxia <Susan.SUN@HydroOne.com> On Behalf Of SECONDARY LAND USE Department
Sent: Wednesday, June 5, 2024 9:39 AM
To: Craig Calder <ccalder@northstormont.ca>
Cc: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>
Subject: Hydro One Response: 20240605-NoticeOfCommence-Water and Wastewater Master Servicing Plan

Please see the attached for Hydro One's Response.

Hydro One Networks Inc

SecondaryLandUse@HydroOne.com



Hydro One Networks Inc.

483 Bay Street
8th Floor South Tower
Toronto, Ontario M5G 2P5

HydroOne.com

June 05, 2024

Re: Water and Wastewater Master Servicing Plan

Attention:
Craig Calder CAO/Clerk
Township of North Stormont

Thank you for sending us notification regarding Water and Wastewater Master Servicing Plan. In our preliminary assessment, we have confirmed that Hydro One has existing high voltage Transmission facilities within your study area. At this time we do not have sufficient information to comment on the potential resulting impacts that your project may have on our infrastructure. As such, we must stay informed as more information becomes available so that we can advise if any of the alternative solutions present actual conflicts with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project.

In addition to the existing infrastructure mentioned above, the applicable transmission corridor may have provisions for future lines or already contain secondary land uses (e.g., pipelines, watermains, parking). Please take this into consideration in your planning.

Also, we would like to bring to your attention that should Water and Wastewater Master Servicing Plan result in a Hydro One station expansion or transmission line replacement and/or relocation, an Environmental Assessment (EA) will be required as described under the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016). This EA process would require a minimum of 6 months for a Class EA Screening Process (or up to 18 months if a Full Class EA were to be required) to be completed. Associated costs will be allocated and recovered from proponents in accordance with the Transmission System Code. If triggered, Hydro One will rely on studies completed as part of the EA you are current undertaking.

Consulting with Hydro One on such matters during your project's EA process is critical to avoiding conflicts where possible or, where not possible, to streamlining processes (e.g., ensuring study coverage of expansion/relocation areas within the current EA). Once in receipt of more specific project information regarding the potential for conflicts (e.g., siting, routing), Hydro One will be in a better position to communicate objections or not objections to alternatives proposed.

If possible at this stage, please formally confirm that Hydro One infrastructure and associated rights-of-way will be completely avoided, or if not possible, allocate appropriate lead-time in your project schedule to collaboratively work through potential conflicts with Hydro One, which ultimately could result in timelines identified above.

In planning, note that developments should not reduce line clearances or limit access to our infrastructure at any time. Any construction activities must maintain the electrical clearance from the transmission line conductors as specified in the Ontario Health and Safety Act for the respective line voltage.

Be advised that any changes to lot grading or drainage within, or in proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

Please note that the proponent will be held responsible for all costs associated with modifications or relocations of Hydro One infrastructure that result from your project, as well as any added costs that may be incurred due to increased efforts to maintain said infrastructure.

We reiterate that this message does not constitute any form of approval for your project. Hydro One must be consulted during all stages of your project. Please ensure that all future communications about this and future project(s) are sent to us electronically to secondarylanduse@hydroone.com

Sent on behalf of,

***Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.***

Allard Martin- Auto Reply-R226348-20240530-Notice of Commencement & PIC			
FROM:	Josée Brizard	SENT:	2024-05-30 5:25:58 PM UTC
TO:		Carol Derrick	
CC:			
ATTACHMENTS:			
<p>[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links</p>			
<p>Mrs. Josée Brizard has retired as of May 3rd, 2024. For business related to the clerk's office, please send an email to clerk@nationmun.ca. For business addressed to the Chief Administrative Officer, please send an email to pleroux@nationmun.ca.</p> <p>Thank you,</p> <p>Mme Josée Brizard a pris sa retraite le 3 mai 2024. Pour toute question portant sur le Bureau de la Greffe, veuillez envoyer un courriel à clerk@nationmun.ca. Pour toute question pour le Directeur général, veuillez envoyer un courriel à pleroux@nationmun.ca.</p> <p>Merci</p>			

Danielle Ward - Auto Reply-R226348-20240530-Notice of Commencement & PIC			
FROM:	Danielle Ward	SENT:	2024-05-30 5:26:21 PM UTC
TO:	Carol Derrick		
CC:			
ATTACHMENTS:			
<p>[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links</p>			
<p>Hello;</p> <p>Thank you for your email, I am currently out of the office on maternity leave and will be returning Monday November 4th 2024.</p> <p>During this time I will be periodically checking and responding to emails.</p> <p>For urget matters related to infrastructure- water, sewer, stormwater, flooding, water/sewer connections- please call 613-774-2105 for immediate assistance, or contact drenaud@northdundas.com.</p> <p>For urgent matters related to landfill operations such as hours, household hazardous waste dates, accepted materials, collection delays, and requests for new pick ups please call 613-774-5157 or contact rdurant@northdundas.com</p> <p>For all invoicing, billing, or other enquiries I will return your email as soon as possible.</p> <p>Thank you for your patience during this time.</p> <p>Danielle Ward Director of Environmental Services Township of North Dundas dward@northdundas.com 613-774-2105</p>			

Josh Mesman- Auto Reply-R226348-20240530-Notice of Commencement & PIC			
FROM:	John Mesman	SENT:	2024-05-30 6:07:23 PM UTC
TO:	Carol Derrick		
CC:	Natasha Lee; Samson Tso; Leadership; Laura Crites; Erin Thorne		
ATTACHMENTS:	R226348-20240530- Notice of Study Commencement.pdf;		

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hello,

Thanks for sharing this notice with us, confirming receipt from South Nation Conservation.

I'll share the information with our team. Please keep us posted on engagement opportunities!

Best,
John

From: Carol Derrick <cderrick@rvanderson.com>
Sent: Thursday, May 30, 2024 1:26 PM
Cc: Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>
Subject: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

External email - if you don't know or can't confirm the identity of the sender, please exercise caution and do not open links or attachments.

On behalf of the Township of North Stormont, please see enclosed the Notice of Commencement and Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

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Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

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SOUTH NATION
CONSERVATION
DE LA NATION SUD

**John Mesman | Managing Director, Property, Conservation Lands,
and Community Outreach**

38 Victoria Street, Box 29, Finch, ON K0C 1K0
Tel: 613-984-2948 or 1-877-984-2948 | Fax: 613-984-2872

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Josh Mesman- Response-R226348-20240530-Notice of Commencement & PIC			
FROM:	Sandra Mancini	SENT:	2024-05-30 6:31:10 PM UTC
TO:	Carol Derrick		
CC:	Natasha Lee; Samson Tso; Ronda Boutz; ccalder@northstormont.ca		
ATTACHMENTS:			

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good afternoon Carol,

Thank you for sending us the notice. The contacts for this project will be Ronda Boutz and myself (Sandra Mancini).

Best,

Sandra

From: John Mesman <jmesman@nation.on.ca>
Sent: Thursday, May 30, 2024 2:07 PM
To: Carol Derrick <cderrick@rvanderson.com>
Cc: Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>; Leadership <leadership@nation.on.ca>; Laura Crites <lcrites@nation.on.ca>; Erin Thorne <ethorne@nation.on.ca>
Subject: RE: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

Hello,

Thanks for sharing this notice with us, confirming receipt from South Nation Conservation.

I'll share the information with our team. Please keep us posted on engagement opportunities!

Best,
John

From: Carol Derrick <cderrick@rvanderson.com>
Sent: Thursday, May 30, 2024 1:26 PM
Cc: Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>
Subject: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

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Creek, Finch and Crysler.

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R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

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SOUTH NATION
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DE LA NATION SUD

Sandra Mancini | Managing Director, Natural Hazards and Infrastructure

38 Victoria Street, Box 29, Finch, ON K0C 1K0
Tel: 613-984-2948 or 1-877-984-2948 | Fax: 613-984-2872

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Notre environnement local, protégeons-le ensemble.

Sean Fraser - Reply-R226348-20240530-Notice of Commencement & PIC			
FROM:	Ryder, Kevin (He/Him) (MMAH)	SENT:	2024-05-30 5:56:39 PM UTC
TO:	Carol Derrick		
CC:			
ATTACHMENTS:	R226348-20240530- Notice of Study Commencement.pdf;		

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Carol,

I have reached out on a couple of occasions to request that ADM Sean Fraser be removed from different email circulations that your organization generates – I was wondering if global change can be made to swap out ADM Fraser for laurie.miller@ontario.ca? Laurie is now in the role (Regional Director, Municipal Services Division) that ADM Fraser once occupied and is better positioned to receive your updates. I think this would be the easiest solution – please let me know if this would be possible.

Thanks in advance,
Kevin

Kevin Ryder
Issues Coordinator | Assistant Deputy Minister’s Office/Planning and Growth Division
Ministry of Municipal Affairs and Housing
647-273/7581 | kevin.ryder@ontario.ca



Taking pride in strengthening Ontario, its places and its people

From: Carol Derrick <cderrick@rvanderson.com>
Sent: Thursday, May 30, 2024 1:26 PM
Cc: Natasha Lee <NLee@rvanderson.com>; Samson Tso <stso@rvanderson.com>
Subject: R226348-20240530-Notice of Commencement & Public Information Centre for the Water and Wastewater Master Servicing Plan for the Township of North Stormont

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

On behalf of the Township of North Stormont, please see enclosed the Notice of Commencement and Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

This notice is sent to your attention as it was deemed that you may be an interested stakeholder.

Should you wish to stop receiving notices pertaining to this project or would like to direct it to an alternate recipient, please advise the undersigned.

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Natasha Lee, P. Eng
Project Manager
NLee@rvanderson.com
(416) 497-8600 ext. 1231

Encls: Notice of Commencement

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FW: R226348-20240905-Notice of Public Information Centre #1 - W-WW MSP for the Township of North Stormont

From Land ROW East <landroweast@tnpi.ca>
Date Fri 9/6/2024 9:48 AM
To Carol Derrick <cderrick@rvanderson.com>

📎 1 attachment (87 KB)
226348-20240828-North Stormont MSP-Notice of PIC - Final.pdf;

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good morning,
Thank you for contacting Trans-Northern Pipelines Inc. (TNPI)
We can confirm that TNPI has NO infrastructure in the mentioned villages of Crysler, Finch, and Moose Creek.
Kind Regards,
Renée Flowerday

Property and Right of Way Administrator/ Administratrice de propriété et de droit de passage
Trans-Northern Pipelines Inc. | 45 Vogell Road, Suite 310, Richmond Hill, ON L4B 3P6 |
Landroweast@tnpi.ca



From: info <info@tnpi.ca>
Sent: September 5, 2024 11:17 AM
To: Land ROW East <landroweast@tnpi.ca>
Subject: FW: R226348-20240905-Notice of Public Information Centre #1 - W-WW MSP for the Township of North Stormont

From: Carol Derrick <cderrick@rvanderson.com>
Sent: September 5, 2024 8:10 AM
Cc: Trevor Kealey <tkealey@rvanderson.com>; Darika Sharma <DSharma@rvanderson.com>; Samson Tso <stso@rvanderson.com>; Sarah Molnarova <smolnarova@rvanderson.com>

11/15/24, 2:10 PM

FW: R226348-20240905-Notice of Public Information Centre #1 - W-WW MSP for the Township of North Stormont - Sarah Molnar...

Subject: R226348-20240905-Notice of Public Information Centre #1 - W-WW MSP for the Township of North Stormont

CAUTION: This email originated from outside of the TNPI organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

On behalf of the Township of North Stormont, please see attached Notice of Public Information Centre for a Water and Wastewater Master Servicing Plan to service the future growth of Moose Creek, Finch and Crysler.

This notice is sent to your attention as it was deemed that you may be an interested stakeholder.

Should you wish to stop receiving notices pertaining to this project or would like to direct it to an alternate recipient, please advise the undersigned.

Yours very truly,

R.V. ANDERSON ASSOCIATES LIMITED

Trevor Kealey, P.Eng.
Project Director
tkealey@rvanderson.com
(416) 497-8600 ext. 3230

Encls: Notice of Public Information Centre #1

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Appendix B-5

30-Day Review Responses and Comments



Sarah Molnarova

From: Laura Crites <lrites@nation.on.ca>
Sent: February 3, 2025 11:46 AM
To: Trevor Kealey; Craig Calder CAO - North Stormont Township (ccalder@northstormont.ca)
Cc: Darika Sharma; Sarah Molnarova; Blake Henderson
Subject: RE: Villages of Finch, Crylser, and Moose Creek Water and Wastewater Master Plan - Final Report for 30-day review

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good morning Trevor and Craig,

Thank you for sending the Water and Wastewater Master Plan to South Nation Conservation.

We are available to discuss any items related to Municipal drinking water source protection, as required under the *Clean Water Act*. Also, if the wastewater expansion results in an increased phosphorus discharge, we can provide info on the Total Phosphorus Management Program if needed.

Please include us on future circulations.

Kind regards,
Laura

From: Darika Sharma <DSharma@rvanderson.com>
Sent: January 4, 2025 1:18 AM
To: Craig Calder <ccalder@northstormont.ca>
Cc: Sarah Molnarova <smolnarova@rvanderson.com>; Trevor Kealey <tkealey@rvanderson.com>; Blake Henderson <bhenderson@northstormont.ca>
Subject: Villages of Finch, Crylser, and Moose Creek Water and Wastewater Master Plan - Final Report for 30-day review

External email - if you don't know or can't confirm the identity of the sender, please exercise caution and do not open links or attachments.

Hello All,

Please see the Final compiled ***Villages of Finch, Crylser, and Moose Creek Water and Wastewater Master Plan*** completed for the Township of North Stormont by R.V. Anderson Associates in the following weblink:
<https://www.northstormont.ca/masterplanwater>

This email is being sent to all stakeholders identified as part of the Municipal Class EA – Master Plan process. This email commences the **30-day review period** for the the Master Plan.

Sarah Molnarova

From: Leclerc, Erika (MCM) <erika.leclerc@ontario.ca>
Sent: February 4, 2025 5:22 PM
To: ccalder; Trevor Kealey
Cc: Barboza, Karla (She/Her) (MCM); Darika Sharma; Sarah Molnarova; Trevor Kealey; Blake Henderson; EA Notices to ERegion (MECP)
Subject: MCM Response - Villages of Finch, Crylser, and Moose Creek Water and Wastewater Master Plan - Final Report for 30-day review
Attachments: 2025-02-04 WWMP_NorthStormont_MCMComments.pdf
Categories: Filed by Newforma

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Good afternoon,

Thank you for providing the Notice of Completion for the above-referenced project to the Ministry of Citizenship and Multiculturalism (MCM). Apologies for the delay in replying.

Please find attached MCM's comments on the Master Plan.

If you have any questions or require clarification, please do not hesitate to contact me.

Kind regards,

Erika Leclerc

Heritage Planner | Heritage Branch | Citizenship, Inclusion and Heritage Division
Ministry of Citizenship and Multiculturalism | Ontario Public Service
416-305-0757 | erika.leclerc@ontario.ca



Taking pride in strengthening Ontario, its places and its people

From: Darika Sharma <DSharma@rvanderson.com>
Sent: Saturday, January 4, 2025 1:18 AM
To: ccalder <ccalder@northstormont.ca>
Cc: Sarah Molnarova <smolnarova@rvanderson.com>; Trevor Kealey <kealey@rvanderson.com>; Blake Henderson <bhenderson@northstormont.ca>
Subject: Villages of Finch, Crylser, and Moose Creek Water and Wastewater Master Plan - Final Report for 30-day review

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Hello All,

Please see the Final compiled ***Villages of Finch, Crylser, and Moose Creek Water and Wastewater Master Plan*** completed for the Township of North Stormont by R.V. Anderson Associates in the following weblink:
<https://www.northstormont.ca/masterplanwater>

**Ministry of Citizenship
and Multiculturalism**

Heritage Planning Unit
Heritage Operations Branch
Citizenship, Inclusion and
Heritage Division
5th Flr, 400 University Ave
Toronto, ON M5G 1S7
Tel.: 416-305-0757

**Ministère des Affaires civiques
et du Multiculturalisme**

Planification relative au patrimoine
Opérations relatives au patrimoine
Division des affaires civiques, de
l'inclusion et du patrimoine
5e étage, 400, av. University
Toronto, ON M5G 1S7
Tél.: 416-305-0757



February 4, 2025

EMAIL ONLY

Trevor Kealey
Principal Regional Manager Ottawa
R.V. Anderson Associates Limited
1750 Courtwood Crescent, Suite 220
Ottawa ON, K2C 2B5
tkealey@rvanderson.com

MCM File : 0021812
Proponent : Township of North Stormont
Subject : Municipal Class Environmental Assessment – Notice of Completion
– Master Plan Approach #1
Project : Villages of Crysler, Finch, and Moose Creek, Water and Wastewater
Master Servicing Plan
Location : Township of North Stormont, United Counties of Stormont, Dundas
and Glengarry

Dear Trevor Kealey:

Thank you for providing the Ministry of Citizenship and Multiculturalism (MCM) with the Notice of Completion for the above-referenced project.

MCM's interest in this Master Plan relates to its mandate of conserving Ontario's cultural heritage, which includes archaeological resources, built heritage resources (BHRs), and cultural heritage landscapes (CHLs).

Master Plan Summary

The Township of North Stormont is responsible for the provision of water and wastewater services to its serviced communities and has undertaken this study to develop, evaluate, and select preferred long-term water and wastewater servicing strategies to support existing servicing needs and accommodate future projected population and employment growth to the year 2051.

The study was conducted in accordance with the Master Planning process following "Approach No. 1" as outlines in the Municipal Class Environmental Assessment (MCEA).

Comments

MCM previously provided comments on this project in an initial letter dated June 20, 2024.

We have reviewed the Master Plan (dated December 24, 2024, from R.V. Anderson Associates Limited) and find that cultural heritage due diligence has yet to be fully documented for this project. We have the following comments and recommendations:

Identifying Cultural Heritage Resources

As noted in our above-referenced initial letter on this project, MCM understands that master plans are typically done at a broad level of assessment thereby requiring more detailed investigations at the project-specific level.

We continue to recommend that a description of the existing conditions related to cultural heritage resources be included in the Master Plan. This includes archaeological resources, as well as BHRs and CHLs.

The Master Plan refers to “cultural and archaeological conditions” as well as “socio-cultural criteria,” however it is not clear whether the study area has been previously screened or assessed.

Archaeological Resources

We continue to recommend that the existing conditions sub-section indicate whether the Master Plan includes areas of archaeological potential and acknowledge that archaeological assessments will be required for future project-specific projects. The proponent should refer to an archaeological management plan or a data sharing agreement, should they exist. In their absence, the Ministry’s screening checklists can help determine whether archaeological assessments will be needed for subsequent project undertakings: [Criteria for Evaluating Archaeological Potential](#) and [Criteria for Evaluating Marine Archaeological Potential](#) (if shoreline or in-water works are proposed).

Please note that archaeological assessments are to be undertaken by an archaeologist licensed under the *Ontario Heritage Act* and that archaeological assessment reports must be submitted for MCM review prior to the completion of the environmental assessment and prior to any ground disturbance.

Built Heritage Resources and Cultural Heritage Landscapes

Future undertakings may impact known and potential BHRs and CHLs. MCM’s [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) screening checklist should be completed for future undertakings under the Master Plan. If there is potential for BHRs and/or CHLs on the property or within the project area, then technical cultural heritage studies (e.g., Cultural Heritage Evaluation Report, Heritage Impact Assessment) should be undertaken by a qualified person as required.

Subsequent Municipal Class EA Undertakings

The preferred water servicing strategy and wastewater servicing strategy include Schedule B and C undertakings. The Master Plan should include a clear commitment to completing technical cultural heritage studies, as required, for future undertakings identified under the Master Plan, as outlined above.

Technical cultural heritage studies are to be undertaken by a qualified person who has expertise, recent experience, and knowledge relevant to the type of cultural heritage resources being considered and the nature of the activity being proposed.

We have attached a table with additional comments and recommended revisions to support the documentation of due diligence and alignment with the legislative framework.

Thank you for consulting MCM on this project. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Erika Leclerc
Heritage Planner
Erika.leclerc@ontario.ca

Copied to: Craig Calder, CAO/Clerk, Township of North Stormont
Darika Sharma, R.V. Anderson and Associates Limited
Sarah Molnarova, R.V. Anderson and Associates Limited
Blake Henderson, R.V. Anderson and Associates Limited
Karla Barboza, Team Lead – Heritage Planning Unit, MCM
EA Notices to East Region, MECP (eanotification.eregion@ontario.ca)

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. The Ministry of Citizenship and Multiculturalism (MCM) makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MCM be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33* requires that any person discovering human remains must cease all activities immediately and notify the police or coroner. If the coroner does not suspect foul play in the disposition of the remains, in accordance with *Ontario Regulation 30/11* the coroner shall notify the Registrar, Ontario Ministry of Public and Business Service Delivery and Procurement, which administers provisions of that Act related to burial sites. In situations where human remains are associated with archaeological resources, the Ministry of Citizenship and Multiculturalism should also be notified (at archaeology@ontario.ca) to ensure that the archaeological site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

Comment #	Reference to Document	MCM Comments	Proposed Action/Solution
1.	Throughout the Master Plan.	Cultural heritage resources include archaeological resources, built heritage resources (BHRs), and cultural heritage landscapes (CHLs). Please use the correct term when referring to each type, and the term “cultural heritage resources” when referring to all three. We recommend revising the terminology throughout the Master Plan.	Revision to Master Plan.
2.	Proposed New Section: Existing Conditions	<p>Please see cover letter comments. The Master Plan should include a description of the existing conditions related to cultural heritage resources (including archaeological resources, BHRs, and CHLs).</p> <p>Recommendations specific to cultural heritage resources (e.g., required technical studies and timelines for their completion) could also be included under a different section, as appropriate.</p>	<p>Revision to Master Plan. MCM recommends including the following suggested text:</p> <p>[New Section - Existing Conditions: Cultural Heritage Resources]</p> <p>“[Describe existing conditions as they relate to archaeological resources, BHRs, and CHLs]. Future undertakings under the Master Plan may impact known or potential cultural heritage resources, which include archaeological resources, BHRs, and CHLs.</p> <p>For all future undertakings under the Master Plan, The Township shall complete the Ministry of Citizenship and Multiculturalism (MCM)’s <i>Criteria for Evaluating Archaeological Potential</i> screening checklist – and <i>Criteria for Evaluating Marine Archaeological Potential</i> (if shoreline or in-water works are proposed) – to determine whether an archaeological assessment is needed. If a project area exhibits archaeological potential, then an archaeological assessment shall be completed by a licensed archaeologist under the <i>Ontario Heritage Act</i>. Archaeological assessment reports are to be submitted to MCM for review as early as possible during the planning phase and prior to any ground disturbing activities.</p> <p>In addition, for all future undertakings under the Master Plan, the Township shall complete the MCM’s <i>Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage</i></p>

Comment #	Reference to Document	MCM Comments	Proposed Action/Solution
			<p><i>Landscapes</i> screening checklist to determine whether a Cultural Heritage Evaluation Report (CHER) and Heritage Impact Assessment (HIA) are needed. If a project area exhibits potential for BHRs and/or CHLs, then a CHER shall be completed. If the CHER concludes that the property/project area has cultural heritage value or interest, then a HIA will also be completed. The CHER (and HIA, if required) will be completed by a qualified person(s) and submitted for review and comment to MCM, Indigenous communities, and other interested parties, as early as possible during the planning phase and prior to any ground disturbing activities.”</p>
3.	6.0 – Evaluation Methodology (p.19)	<p>Table 6.1 (MCEA Evaluation Criteria) includes a “Social and Cultural” category, which includes “impact to build [sic] heritage and cultural heritage landscapes” among the criteria. Please see comment #1. The table should include impacts to all three types of cultural heritage resources, and the terminology should be revised to align with the legislative framework.</p> <p>In addition, it is not clear how impacts to cultural heritage resources were determined in the evaluation. Please see cover letter comments. We recommend indicating whether the study area has been previous screened/assessed.</p>	<p>Revision to Master Plan. We recommend the following revisions to Table 6.1:</p> <ul style="list-style-type: none"> • “Impacts to known and potential built-heritage resources and cultural heritage landscapes • Impacts to archaeological resources and areas of archaeological potential”
4.	7.7.1 – Water Supply, Table 7.9 (p.39) and 7.7.2 – Water Storage, Table 7.10 (p.47)	<p>See comments #1 and 3, as well as cover letter comments.</p> <p>Table 7.9 (Detailed Evaluation of Water Supply Alternatives) refers to “known archaeological and cultural conditions” and “unknown archaeological and cultural conditions.” We recommend revising the terminology to refer to archaeological resources, BHRs, and CHLs. We also recommend that the Master Plan clarify how these conditions were determined.</p>	<p>Revision to Master Plan. Please see suggested wording in comment #3 above and revise accordingly.</p>

Comment #	Reference to Document	MCM Comments	Proposed Action/Solution
		<p>Table 7.10 (Detailed Evaluation of Water Storage Alternatives) should also identify whether there could be potential impacts to all three types of cultural heritage resources.</p>	
5.	7.8 – Preferred Water Servicing Strategy (p.48-53)	<p>The preferred water servicing strategy includes Schedule B and C undertakings. The Master Plan should include a clear commitment to completing technical cultural heritage studies for future undertakings identified under the Master Plan, as outlined in the cover letter and comment #2.</p>	Revision to Master Plan.
6.	8.5.4.3 – Alternative 5B-1: New Facultative Lagoon (p.67)	<p>The Master Plan states that “under the MCEA, this project will require a Schedule C Class EA with architectural and cultural-heritage studies due to the large area of additional land requirement” (p.67).</p> <p>As indicated in our cover letter, MCM recommends that proponents complete the <i>Criteria for Evaluating Archaeological Potential</i> screening checklist (and <i>Criteria for Evaluation Marine Archaeological Potential</i>, as appropriate) for all future undertakings under the Master Plan to determine if an archaeological assessment is required.</p> <p>In addition, future undertakings under the Master Plan should be screened using MCM’s <i>Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes</i> screening checklist to determine whether a CHER – and HIA, if recommended – is/are required.</p> <p>Revision recommended. Please see suggested text under comment #2.</p>	Revision to Master Plan.

Comment #	Reference to Document	MCM Comments	Proposed Action/Solution
7.	8.7 – Detailed Evaluation of Post-Screening Alternative Strategies, Table 8.9 (p.74)	Under the “Evaluation Criteria” row, Table 8.9 (Detailed Evaluation of Wastewater Treatment Alternatives) indicates that “all proposed upgrades can possibly fit within the municipal property and no land acquisition is anticipated.” Please see comment #4. It is not clear whether there could be potential impacts to archaeological resources, areas of archaeological potential, and/or known and potential BHRs and CHLs.	Revision to Master Plan.
8.	8.8 - Preferred Wastewater Servicing Strategy (p.75-79)	Please see comment #5. The preferred wastewater servicing strategy include Schedule C undertakings. The Master Plan should include a clear commitment to completing technical cultural heritage studies for future undertakings identified under the Master Plan, as outlined in the cover letter and comment #2.	Revision to Master Plan.
9.	Appendix A – Referenced Legislation and Policies	The <i>Ontario Heritage Act</i> should also be included in the list of Provincial Acts and Policies.	Revision to Master Plan.

APPENDIX C
Population Analysis



1.1 Reserve Capacity Study

The 2022 and 2024 RCS was undertaken by the Township to allocate and track capacity available for future development in the Villages of Crysler, Finch and Moose Creek. Recorded usage, serviced connections, and existing and planned development information was obtained from the Township staff and the 2013 Crysler and Finch Wastewater Servicing Master Plan (RVA, 2013). The capacity calculations were then completed in accordance with Ministry of Environment and Conservation of Parks (MECP) Procedure D-5-1.

The report provides the number of units connected to each DWS and WWTS. For the Crysler SPS And Wastewater Treatment Lagoons, the total serviced units in both Finch and Crysler are provided. To estimate the serviced units in Crysler alone, this total number of serviced units is subtracted from the units serviced by the Finch SPS alone.

Table 1 provides the results and also summarizes the connected-units information provided in each of the reports. Note that it is assumed that the serviced-units data corresponds to the year prior to the report year (that is, 2022 report covers units serviced in 2021 and 2024 report covers units serviced in 2023).

The 2024 RCS report only covered the WWTS and was used to obtain the units serviced by the WWTSs in 2023. To determine the 2023 DWS serviced units, the growth in the WWTS serviced units from 2021 to 2023 was taken as the same growth for the DWS serviced units. That is, the 2024 report showed that an additional 10 units were connected in both Finch and Moose Creek, while Crysler saw a growth of 31 units, to their corresponding WWTSs. These numbers were added the DWS serviced units reported in the 2022 RCS report to determine the total serviced units in 2023.

Table 1: Total Units Serviced by Municipal System in 2022 and 2024

Parameter	2021 Serviced Units	2023 Serviced Units	2021-2023 Additional Units
Drinking Water System			
Finch	249	259	10
Crysler	440	471	31
Moose Creek	262	272	10
Wastewater Treatment System			
Finch – Crysler Combined	658	699	41

Parameter	2021 Serviced Units	2023 Serviced Units	2021-2023 Additional Units
Finch	228	238	10
Crysler	430	461	31
Moose Creek	222	232	10

1: Crysler Serviced units = Finch-Crysler Combined – Finch Serviced Units

The RCS analyzed capacity requirements on a per-unit basis. However, water use and wastewater discharge can significantly vary among households. At a Master Plan level, capacity is analysed on a per-capita basis to obtain consistent and accurate projection data.

This information is used to obtain the serviced population from 2021 to 2023, which is then used to estimate the historical per person (capita) water consumption and wastewater discharge factors. These factors are then used to project the future water demand and wastewater flows based on the assumption that the services used per capita will remain the same. This is a conservative assumption, as overall trends across Ontario show a decline in per capita water use and wastewater flow (*Potable water use by sector and average daily use*, Statistics Canada).

1.2 Growth Management Strategy

1.2.1 Overview

The Growth Management Strategy (GMS) report provided a long-term forecast for population, housing, and employment requirements as well as the corresponding urban land requirements. The study was conducted to provide consideration for residential and non-residential development across the County up to year 2051.

Population and employment growth in the County is linked to the economic growth opportunities available in the surrounding commuter shed, particularly Ottawa and Cornwall. The following subsections provides details on the forecasted residential and employment growth that will impact the municipal drinking water and wastewater treatment systems.

1.2.2 Historical Serviced Population

The GMS report provided the Population-Per-Unit (P.P.U.) from 2021 to 2051, which is used to estimate the historical serviced population (2021-2023) from the serviced units

provided in the RCS studies. The results are shown in Table 2. PPU used for 2021 to 2023 is 2.59.

Table 2: Historical Serviced Population

Parameter	2021	2022	2023
Drinking Water System			
Finch	645	658	671
Crysler	1,140	1,180	1,220
Moose Creek	679	692	704
Wastewater Treatment System			
Finch	591	603	616
Crysler	1,114	1,154	1,194
Moose Creek	575	588	601

Historical employment population is not considered as neither of the urban settlements have large industries. Therefore, it is assumed that all municipal services are currently used by the residential population. This is a conservative assumption and leads to larger per-capita factors.

1.2.3 Residential Population Growth

1.2.3.1 OVERVIEW

As of 2021, the Township shares approximately 11% of the total population in the County. Historically, the Township has grown by 0.4% from 2001 – 2021 with an average annual housing growth rate of 27 units.

Three long-term growth scenarios were developed for the County as follows:

- Low Growth Scenario with an average annual rate of 0.5% per year;
- Medium Growth Scenario with an average annual rate of 0.7% per year; and
- High Growth Scenario with an average annual rate of 0.9% per year.

The Medium Growth Scenario was selected as the recommended scenario for long-range planning purposes, as it was conservatively larger than the historic growth rate of 0.1% recorded in the County from 2001 to 2006. The following growth in population and housing, and resulting remaining housing supply is forecasted under this scenario for each urban settlement. All units are to be directed to either of the three urban settlements of Finch,

Crysler or Moose Creek. Additional housing and population growth is from baseline year 2021 to study horizon of 2051

- Finch
 - › Household growth 130 houses, of which 80 are low density, 20 are medium density and 30 are high density units. The corresponding population growth is 290 additional people. Finch is expected to have a surplus of 940 housing supply by 2048.
- Crysler
 - › Household growth is 440 houses, of which 330 are low density, 40 are medium density and 70 are high density units. The corresponding population is 980. Crysler is expected to have a surplus of 40 housing units supply by 2048.
- Moose Creek
 - › Household growth is 220 houses, of which 150 are low density, 30 are medium density and 40 are high density units. The corresponding population is 490. Moose Creek is expected to have a surplus of 260 housing units supply by 2048.

The remaining housing supply on vacant residential designated greenfield lands as of 2023, not including units in any current development approvals process, is 1,840 units in all of North Stormont. This represents 20% of the total vacant supply in the County.

Table 3 provides the population in 2051 calculated using the above data. It is assumed that all future growth (resulting from new developments, intensification of existing serviced areas etc.) will be connected to municipal services. If the Township desires to connect the existing non-serviced lots, an updated *Reserve Capacity* study is recommended to determine the required capacity of municipal services.

Table 3: Residential Population Forecast

Urban Settlement	2023 Serviced Population	A = 2021 Serviced Population	B = 2021 – 2051 Additional Population	A + B = 2051 Population
Drinking Water System				
Finch	671	645	290	935
Crysler	1,220	1,140	980	2,120
Moose Creek	704	679	490	1,169

Urban Settlement	2023 Serviced Population	A = 2021 Serviced Population	B = 2021 – 2051 Additional Population	A + B = 2051 Population
Wastewater Treatment System				
Finch	616	591	290	881
Crysler	1,194	1,114	980	2,094
Moose Creek	601	575	490	1,065

1.2.3.2 POPULATION GROWTH SENSITIVITY ANALYSIS

During the preparation of this Master Plan, development plans for a total of 1,062 units (that can accommodate 3,030 people) was submitted by G&E Reno Construction in a Servicing & Stormwater Management Report prepared by EVB Engineering. The units are to be constructed in four phases, of which only Phase 1 comprising of 329 units which can accommodate 875 people is currently approved.

As summarized in Section 1.2.3.1, the total additional population from 2021 to 2051 projected for Crysler was 980. The G&E Reno Phase 1, that is currently under construction, is about 89% of this total growth (875/980). Additionally, the GMS report also noted that the remaining years of available housing supply available in Crysler is 22 years (which does not include the G&E development). As such, with the currently approved G&E Reno development, Crysler has a remaining supply capacity of 111 additional units only (440 units – 329 units).

As such, the need for a sensitivity analysis on Crysler’s population growth was identified. The sensitivity analysis analyzed the High-Growth scenario for Crysler to determine capacity of municipal services that can be needed to support larger than anticipated growth.

The High-Growth scenario is based on a 0.2% higher growth rate (0.9% versus 0.7%). Applying the increased growth rate to Crysler is shown in Table 4 and illustrated graphically in Figure 1. **This scenario will be checked in the water and wastewater forecast analysis.** However, this Master Plan will rely on the population forecast provided in the GMS Report, under the assumption that although approved, the time taken to fully populate the G&E Reno developments cannot be confirmed and can follow the Medium-Growth scenario trendline.

Table 4: Crysler High Growth Scenario

Parameter	Value	Note/Methodology
Additional Population Growth 2021 - 2051	980	Refer to Table 3 1.2.3.1
% Increased Growth Rate under High – Growth scenario.	0.2%	
Additional Population Growth 2021 – 2051 under High Growth Scenario ¹	1,040	Rounded to nearest 10 th
2051 Population under High Growth Scenario – DWS	2,180	= 1,140 + 1,040
2051 Population under High Growth Scenario - WWTS	2,155	= 1,114 + 1,040 Rounded to nearest 10 th digit

1: Value calculated using typical growth rate formula: $POP.FUTURE = POP.PRESENT \times (1+i)^n$, where i = growth rate and n = number of years.

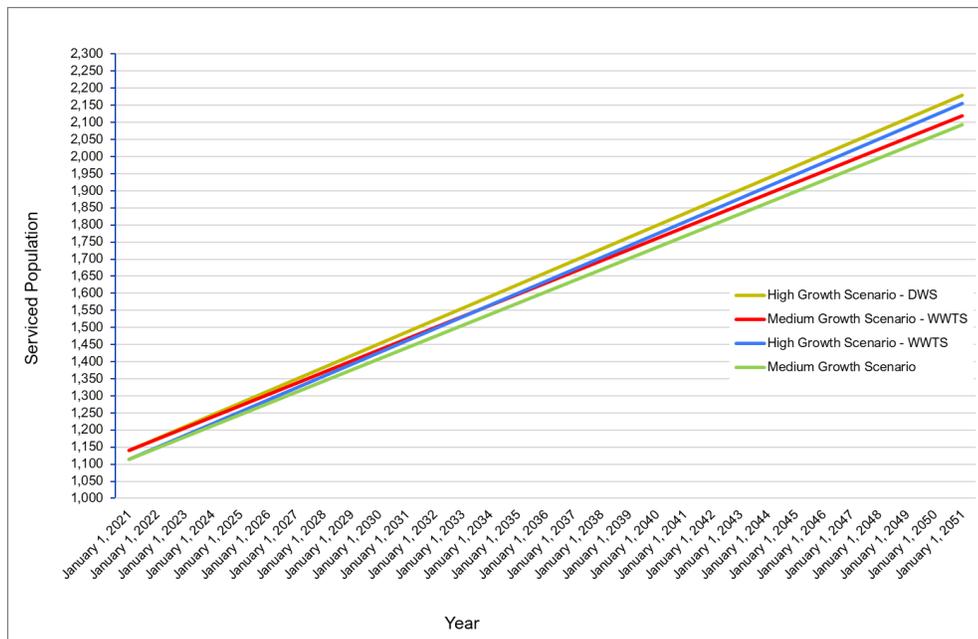


Figure 1: Crysler Medium and high Growth Scenario Comparison

1.2.4 Employment Population Growth

1.2.4.1 OVERVIEW

The County's highest share of employment is in manufacturing, health care, and social assistance sector, followed by retail trade and construction sectors. About 45% of the total

employed residents work within the County. Of the total employment base in the County, only 9% is located in North Stormont.

As of 2023, North Stormont does not have additional vacant industrial lands. This analyses also considered adjustments made for sites that are unlikely to be developed due to odd/small lot sizes and poor configuration, underutilized employment sites, and sites that may have long-term development constraints. As such, any new industry will require expansion boundaries.

Three long-term growth scenarios were developed for the County as follows:

- Low Growth Scenario with an average annual rate of 0.7% per year;
- Medium Growth Scenario with an average annual rate of 0.9% per year; and
- High Growth Scenario with an average annual rate of 1.1% per year.

The Medium Growth Scenario was selected as the recommended scenario for long-range planning purposes. Under this scenario, North Stormont will see 10% of the total employment growth forecasted to 2051 in the County, equating to 710 additional jobs (2016 – 2051) as detailed below. Of this, employees that are likely not residents of the urban settlements and only use municipal services for 8 hours in a day (typical working hours assumed to be 8 AM to 5 PM), or 1/3 of the day are those that work in the designated urban employment lands. This is typically referred to as employment-land employment (ELE) population.

- Finch
 - › Urban employment growth is 110 jobs, of which only 10 are industrial jobs. Total employment on Urban Employment Lands is only 12 people.
- Crysler
 - › Urban employment growth is 380 jobs, of which only 70 are industrial jobs. Total employment on Urban Employment Lands is only 68 people.
- Moose Creek
 - › Urban employment growth is 130 jobs, of which only 20 are industrial jobs. Total employment on Urban Employment Lands is only 22 people.

The remaining jobs fall within work at home, commercial (population related), institutional and N.F.P.O.W.

1.2.4.2 IMPLEMENTATION

Daily water usage and wastewater generation in addition to the existing residential population can be expected to only be contributed from the ELE population. For projection calculations, an *equivalent-residential population* calculated as 1/3 of the total ELE population. Table 5 lists the equivalent residential population for each urban settlement.

Table 5: Employment Population Forecast

Urban Settlement	2021 – 2051 Additional ELE Population	2023 – 2051 Additional ELE Population	Equivalent Residential Population ¹
Finch	12	11	4
Crysler	68	63	23
Moose Creek	22	21	7

1: Equivalent Residential Pop = 1/3 of Additional ELE Population

1.3 Projected Serviced Population

Table 6 provides the total serviced residential and employment combined population forecasted to year 2051, based on the data analysis from Section 1.1 to 1.3. **All values have been rounded to the nearest 10th.**

Table 6: 2051 Forecasted Serviced Population

Urban Settlement	Residential Population	Equivalent Residential Population	2051 Total Serviced Population	Rounded
Drinking Water System				
Finch	935	5	945	950
Crysler – Medium Growth	2,120	25	2,145	2,150
Crysler – High Growth	2,180	25	2,205	2,210
Moose Creek	1,170	10	1,180	1,180
Wastewater Treatment System				
Finch	880	5	885	890
Crysler – Medium Growth	2,095	25	2,125	2,130

Urban Settlement	Residential Population	Equivalent Residential Population	2051 Total Served Population	Rounded
Crysler – High Growth	2,155	25	2,185	2,190
Moose Creek	1,065	10	1,080	1,080

1.4 Committed Population

Finch and Moose Creek’s committed units as of 202 was emailed by the Township Planning Staff. Crysler’s committed population was obtained by *G&E Reno Construction in a Servicing & Stormwater Management Report* prepared by EVB Engineering. During the preparation of this Master Plan, development plans for a total of 1,062 units (that can accommodate 3,030 people) was submitted by G&E Reno. The units are to be constructed in four phases, of which only Phase 1 comprising of 329 units which can accommodate 875 people is currently approved.

Since the timeline of when the units will be populated is unclear, a PPU from a specific year provided in the GMS report (Figure 2 for reference) cannot be used. Instead, an average of the PPU from 2021 to 2051 is used instead.

Table 7: Committed Population

Urban Settlement	Units	PPU ¹	Population
Finch	14	2.55	36
Crysler ¹	328	-	875
Moose Creek	12	2.55	31

1: Average PPU from 2021 – 2051 is 2.55

North Stormont

Year	Population (Excluding Census Undercount)	Population (Including Census Undercount) ¹	Households				Persons Per Unit (PPU)
			Low Density ²	Medium Density ³	High Density ⁴	Total	
2016	6,873	7,078	2,480	40	120	2,640	2.60
2021	7,400	7,621	2,615	65	175	2,855	2.59
2026	7,779	8,011	2,739	77	199	3,016	2.58
2031	8,207	8,452	2,890	94	219	3,203	2.56
2036	8,571	8,826	3,005	109	241	3,355	2.55
2041	8,918	9,184	3,113	124	263	3,500	2.55
2046	9,189	9,463	3,211	139	285	3,636	2.53
2051	9,451	9,732	3,297	154	306	3,757	2.52
2021-2051	2,051	2,112	682	89	131	902	

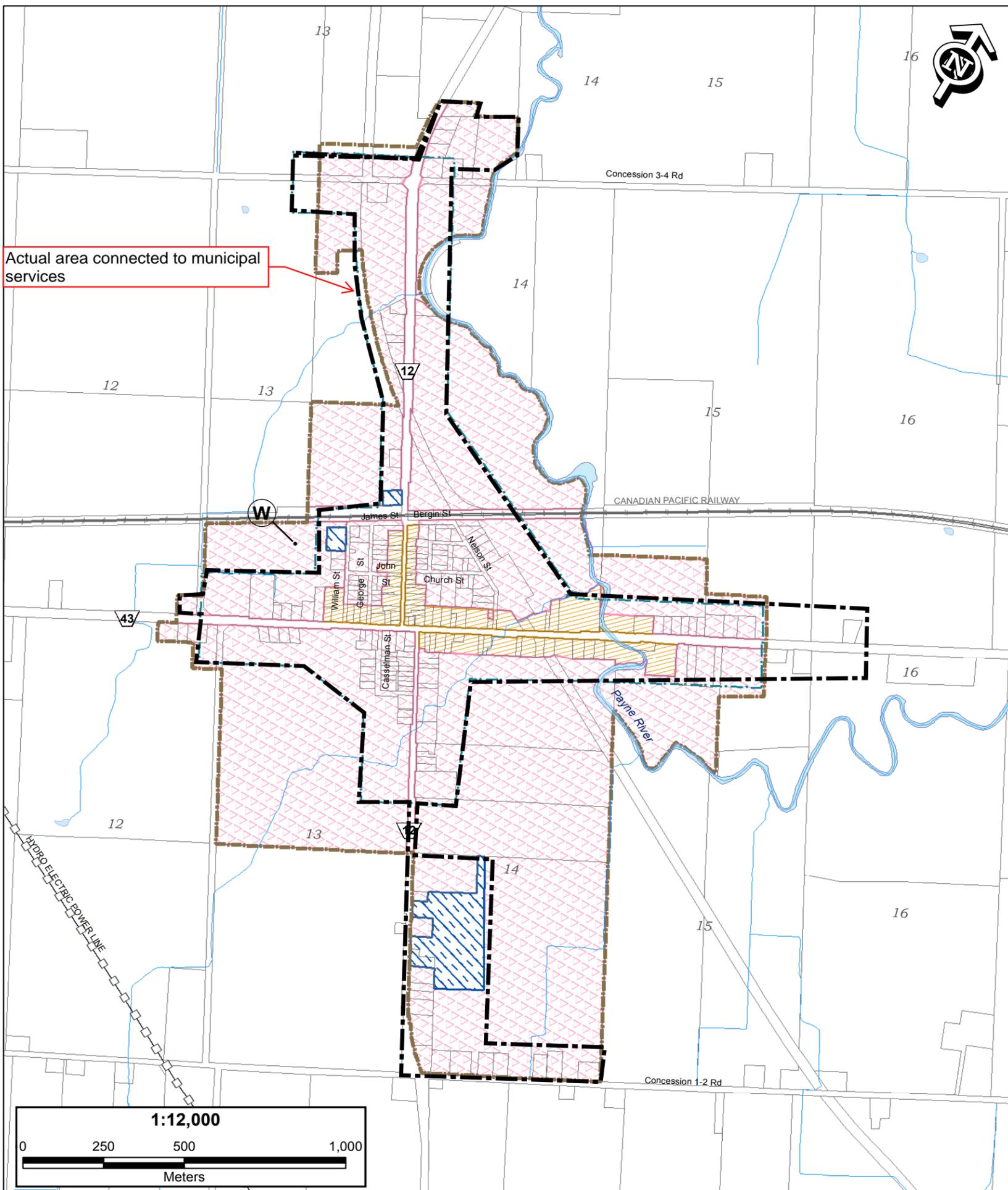
Figure 2: Table Taken from 2023 Growth Management Study Report, Watson & Associates

APPENDIX D
Boundary Maps

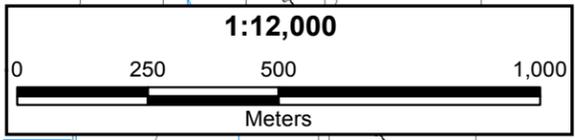


SCHEDULE A3a

Finch



Actual area connected to municipal services

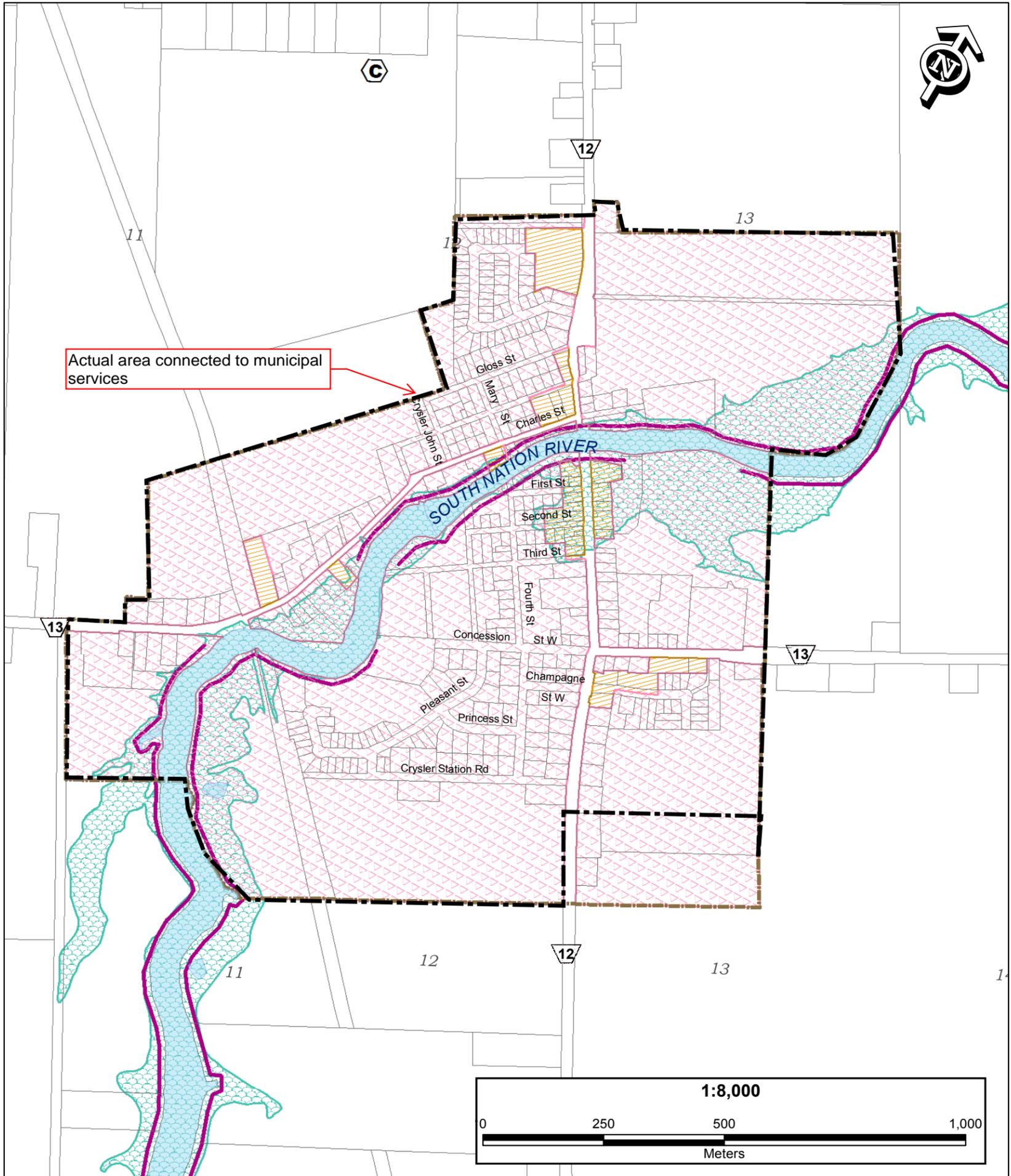


LEGEND		Updated Urban Service Limit	Environmental Protection Lands (Constraint Overlay)		Infrastructure	
Boundaries (Land Use Designation)		Urban Settlement Area	Urban Service Limit	Regulatory Floodline	Communal Well	Hospital
Settlement Areas (Land Use Designation)		Residential District	Salvage Yard District	Organic Soils	Sewage Lagoon	
Commercial District	Major Open Space	Employment District	Airport District	Unstable Slope		
Provincially Significant Wetland	Special Land Use District (See Table 9.1.2 of the OP Text)			MOECC Identified Closed Waste Site (Approximate Location):		
				Closed Waste Site		

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SCHEDULE A3b

Crysler



LEGEND

Boundaries (Land Use Designation)

- Urban Settlement Area
- Urban Service Limit

Settlement Areas (Land Use Designation)

- Residential District
- Commercial District
- Employment District
- Provincially Significant Wetland
- Salvage Yard District
- Major Open Space
- Airport District
- Special Land Use District (See Table 9.1.2 of the OP Text)

Environmental Protection Lands (Constraint Overlay)

- Regulatory Floodline
- Organic Soils
- Unstable Slope

MOECC Identified Closed Waste Site (Approximate Location):

- Closed Waste Site

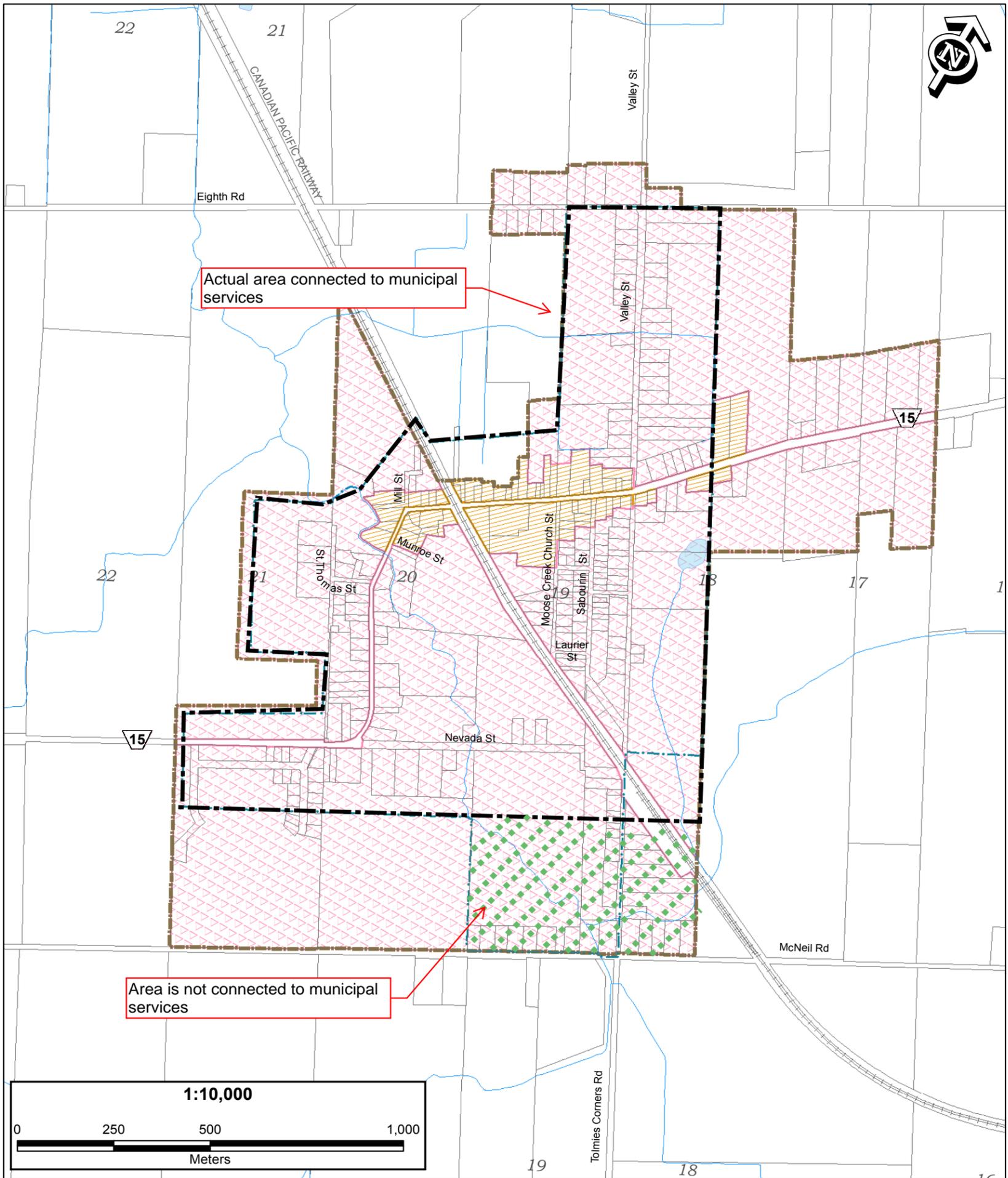
Infrastructure

- Communal Well
- Hospital
- Sewage Lagoon

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SCHEDULE A3c

Moose Creek



LEGEND		Updated Urban Service Limit	Environmental Protection Lands (Constraint Overlay)		Infrastructure	
Boundaries (Land Use Designation)		Urban Settlement Area	Urban Service Limit	Regulatory Floodline	Communal Well	Hospital
Settlement Areas (Land Use Designation)		Residential District	Salvage Yard District	Organic Soils	Closed Waste Site	Sewage Lagoon
Commercial District	Major Open Space	Employment District	Airport District	Unstable Slope	Produced by the United Counties of Stormont, Dundas and Glengarry, Transportation and Planning Services with Data supplied under Licence by Members of the Ontario Geospatial Data Exchange	
Provincially Significant Wetland	Special Land Use District (See Table 9.1.2 of the OP Text)			© November 17, 2015		

TOWNSHIP OF NORTH STORMONT
2024 TREASURER'S STATEMENT OF MONIES PAID TO
ELECTED OFFICIALS OF THE TOWNSHIP OF NORTH STORMONT

WHEREAS the Municipal Act, section 284(1) requires the Treasurer to provide Council with an itemized statement of remuneration and expenses paid in the previous year to each member of council for their duties as a council member, officer, and/or a member of a local board.

WHEREAS said statement must be supplied to the Council on or before March 31st of the following year.

THEREFORE I, Kimberley Goyette, Treasurer of the Township of North Stormont, do hereby provide Council with the following statement of monies paid to each member as an elected official and/or officer of The Corporation of the Township of North Stormont.

Authorization of Remuneration Under By-Law # 28-2024, revised under By-Law 70-2024	Mayor	Deputy Mayor	Councillor	Councillor	Councillor	Total
	Francois Landry	Steve Densham	Adrian Bugelli	Alison McDonald	Charles Shane	
Annual Remuneration	35,184.56	29,352.79	18,618.43	20,171.85	20,171.85	123,499.48
Committee Meetings	1,175.00	625.00		550.00		2,350.00
Sub-total	\$ 36,359.56	\$ 29,352.79	\$ 18,618.43	\$ 20,721.85	\$ 20,171.85	\$ 125,849.48
OMERS	3,265.91	2,746.81	1,675.61	1,848.17	1,873.19	11,409.69
Conference Registrations	1,916.21	1,795.04	880.22	992.16	880.22	6,463.85
Conference Expenses	1,487.45	2,576.48	374.15	2,062.69	2,270.37	8,771.14
Per Diem	2,206.79	2,420.79	1,558.90	214.00	2,617.12	9,017.60
Warden's Dinner	144.08	144.08	144.08	72.05		504.29
Mileage	339.78	506.17		120.05		966.00
County Reimbursement	(4,562.01)	(4,562.01)				(9,124.02)
2024 TOTALS	\$ 41,157.77	\$ 34,980.15	\$ 23,251.39	\$ 26,030.97	\$ 27,812.75	\$ 153,858.03

Council Salary	123,499.48	1-4-1000-1020
Meetings	1,350.00	1-4-1000-1020
OMERS	11,409.69	1-4-1000-1053
Mileage	966.00	1-4-1000-1500
Council Functions	15,632.86	1-4-1000-1700
Committee of Adjustment	1,000.00	1-4-8125-2020
	\$153,858.03	


 Kimberley Goyette, Treasurer

Date Jan 24/25

THE CORPORATION OF THE TOWNSHIP OF NORTH STORMONT

BY-LAW NO. 22-2025

BEING a By-law to adopt, confirm and ratify matters dealt with by resolution.

WHEREAS the *Municipal Act, 2001*, c. 25 s. 5 (1) provides that the powers of a municipal corporation are to be exercised by its Council;

AND WHEREAS the *Municipal Act, 2001*, c. 25 s. 5 (3) provides that the powers of every council are to be exercised by By-law;

AND WHEREAS in many cases, action which is taken or authorized to be taken by the Township of North Stormont does not lend itself to the passage of an individual By-law.

NOW THEREFORE the Council of the Corporation of the Township of the North Stormont hereby enacts as follows:

1. That the actions of Council, at its regular meeting held on March 25, 2025 in respect of which recommendations, each motion and resolution passed and taken by the Township of North Stormont is, except where the prior approval of the Local Planning Appeal Tribunal or other authority is required, hereby adopted, ratified and confirmed as if all such proceedings were expressly embodied in this By-law.
2. That where no individual By-law has been or is passed with respect to the taking of any action authorized in or by the above-mentioned minutes, then this By-law shall be deemed for all purposes to be the By-law required for approving and authorizing and taking of any action authorized therein and thereby required for the exercise of any powers therein by the Township of North Stormont.
3. That the Mayor and the appropriate officers of the Township of North Stormont are hereby authorized and directed to do all things necessary to give effect to the actions of the Council of the Township of North Stormont, to obtain approvals where required and except as otherwise provided, the Mayor and CAO/Clerk are hereby directed to execute all documents necessary on behalf of the Corporation of the Township of North Stormont and to affix the corporate seal.

READ A FIRST, SECOND AND THIRD TIME and passed in open Council, signed and sealed this 25th day of March 2025.

François Landry, Mayor

Craig Calder, CAO/Clerk

SEAL