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## **Appendix G**

Public Consultation Documents

MUNICIPALITY OF CENTRE HASTINGS

ONTARIO CLEAN WATER AGENCY

MADOC

WATER, WASTEWATER AND STORMWATER MASTER PLAN

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

**PUBLIC CONSULTATION PLAN**

DRAFT – NOVEMBER 2023

Submitted by:



Suite 203  
863 Princess Street  
Kingston, ON Canada  
K7L 5N4

JLR 32508-000

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## **1.0 INTRODUCTION**

The Ontario Clean Water Agency (OCWA) is managing a Class Environmental Assessment (Class EA) Master Plan exercise on behalf of the Municipality of Centre Hastings (the Municipality). The intent of the Master Plan is to identify existing conditions, residual capacity in the current system, and future upgrades to the water supply, wastewater, and stormwater infrastructure to accommodate future growth in Madoc.

The Master Plan is proceeding in accordance with the requirements of the Ontario Municipal Class EA, October 2000, as amended in 2015 and 2023. Public Consultation is a key element of the Master Plan process. As a result, this Public Consultation Plan has been developed to ensure that the public and other stakeholders have the opportunities to be involved and to provide comments throughout the Master Plan.

## **2.0 KEY CONSIDERATIONS**

Upon review of the background materials, several considerations likely to impact the implementation of the public consultation plan emerged. They represent both opportunities and constraints for engagement and influence how this public consultation plan is structured. These considerations include the following:

- The public consultation activity will seek meaningful inputs from the municipal staff, Council, local developers, major industries, and other stakeholders. Approval and buy-in on key milestone deliverables from Council must be obtained. Final approval of project deliverables will be obtained from the OCWA and the Municipality.
- The Municipality may experience increased development pressures as the Master Plan project progresses.
- The Municipality currently provides water and wastewater services beyond the Village boundary, into the Township of Madoc. It is anticipated that cross-municipal services to future developments will continue. The Study Area has been adjusted to include all potential developments to be serviced by Village's water and wastewater infrastructure.
- It will be essential to engage key stakeholders that govern the compliance and operation of the water, wastewater and stormwater system (e.g., OCWA, Ministry of the Environment, Conservation and Parks) or may influence the outcome of the planning process (e.g., indigenous communities).



- All public notices will be in English and in compliance with AODA guidelines.

### **3.0 CONSULTATION OBJECTIVES**

The research and analysis conducted during the development of this public consultation plan have led to the identification of the following objectives for the consultation process for the Master Plan:

- Compile a comprehensive list of stakeholders, including the MECP's Government Review Team and the Municipality's key local stakeholders.
- Analyze the stakeholder list to identify level of influence / anticipated involvement, consultation strategies, and timing. The list will be updated as the Master Plan progresses.
- Provide easy ways for the public and key stakeholders to learn about the Master Plan process using the Municipal Website, social media, newspaper (if available) and publishing project contacts.
- Host the Phase 1 Public Information Centre (PIC) in Winter 2023/2024 to obtain public buy-in at the initial stage of the Master Plan.
- Host the Phase 2 PIC in Spring 2024 to be followed by a presentation to Council in Spring/Summer 2024 to present findings and recommendations from the Master Plan.
- Encourage engagement at the PICs so that the Project Team can understand local concerns and issues.
- Facilitate effective communication with local stakeholders, regulatory agencies, and the public through AODA compliant notices by mail, email, newspaper advertisements, and the Municipal Website/social media.
- Compile feedback from the public and key stakeholders obtained from communication with the Municipality, public responses to notifications, emails, PIC comments and meetings for the Project Team's review and understanding.

### **4.0 TARGET GROUPS FOR CONSULTATION**

To satisfy the objectives of this public consultation plan, target groups should be identified. The list will generally consist of the Municipality's Stakeholder List and the MECP's Government Review Team. The Project Team will identify key stakeholders

and anticipated level of involvement, jurisdictions, and consultation strategies. As the Master Plan unfolds, additional target groups may be identified and included. Critical audiences would generally include the following and will be confirmed upon finalizing the stakeholder register:

The general public, including:

- Property owners adjacent to the water treatment plants, sewage lagoons, elevated tank, and sewage pumping stations;
- Local residents and business owners;
- Local developers;
- Affected indigenous communities, and
- Local fire department

Government organizations and agencies, including:

- Neighboring Municipalities
- County Staff
- Ministry of the Environment, Conservation and Parks (MECP)
- Hastings Prince Edward Public Health (HPEPH)
- Infrastructure Ontario (IO)
- Ministry of Agriculture, Food and Rural Affairs (MAFRA)
- Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)
- Ministry of Indigenous Affairs (IAO)
- Ministry of Municipal Affairs and Housing (MMAH)
- Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF)
- Ministry of Solicitor General (MSG)
- Ontario Provincial Police (OPP)
- Fisheries and Oceans Canada (DFO)

- Impact Assessment Agency of Canada (IAAC)

## **5.0 ACCESSIBILITY STANDARD FOR CUSTOMER SERVICE**

It will be critical throughout the Master Plan that services are provided in accordance with the Accessibility for Ontarians with Disabilities Act (AODA). This includes having respect for persons with a disability and using all reasonable efforts to ensure they have an equal opportunity to obtain and provide input.

Throughout the Master Plan, the consulting team will:

- Ensure PIC and other consultation activities, when conducted in-person, are held in buildings with barrier-free access; and
- Work with the Municipality in providing accessible formats and communications supports, upon request.

## **6.0 KEY MESSAGES**

Consistent messages with the appropriate tone and content will improve understanding among target audiences. The message statements listed below are built on a current understanding of the existing audiences, constraints, opportunities, and environmental concerns surrounding the Master Plan. These messages should be communicated throughout the Master Plan and refined, as required, as it unfolds.

- To make important servicing decisions, an implementable plan is required by the Municipality and property owners. Given the critical nature of the water, wastewater and stormwater infrastructure, the ultimate planned solution(s) need to ensure the systems are reliable and robust such that it can accommodate existing and future servicing needs.
- OCWA, the Municipality and consulting team members are committed to this Master Plan and are placing an emphasis on a seamless, open, transparent, and traceable Master Plan process.

## **7.0 RECOMMENDED STAKEHOLDER CONSULTATION ACTIVITIES**

A variety of public consultation vehicles and mechanisms are recommended to achieve the objectives of this public consultation plan. Care has been taken in selecting activities that recognize the needs of the local community and government organizations along with their specific information requirements.

## 7.1 Technical Steering Committee (TSC)

To facilitate the consultation process and communications between OCWA, JLR team and the Municipality, a TSC will be formed. The TSC will comprise of:

<b>Name</b>	<b>Agency</b>	<b>Project Role</b>
Typhany Choinard	Municipality	CAO
Alexander Kelly	Municipality	Director of Finance
Kevin Hart	Municipality	Director of Public Works
Ethan Griffith	Municipality	Environmental Supervisor
Jose Casal	OCWA	Project Manager
Amber Coupland	OCWA	Operations Manager
Justin Cassidy	OCWA	Operator
Matthew Morkem	JLR	Project Principal
Susan Shi	JLR	Project Manager

## 7.2 Consultation Meetings

The Project Team anticipates hosting up to three (3) virtual 1-hour meetings with the key stakeholders, such as the MECP, indigenous groups, industry developers, residents, landowners, and local special interest groups.

## 7.3 Public Information Centres (PICs)

PICs, either in-person or virtually, provide a good mechanism for the local community to be informed about and comment on the Master Plan. One (1) PIC will be conducted at the end of Phase 1 and one (1) PIC will be conducted near the end of Phase 2.

Both PICs will be designed to be welcoming and provide an opportunity for residents to speak directly with the consulting team, OCWA, and Municipal Staff. The appropriate PIC format and delivery method (in-person vs. virtual) will be dictated by the complexity of the alternatives, length of slides, accessibility requirements, and public health restrictions at the time of the PIC. The format can take a variety of forms such as formal presentations with a question-and-answer session and/or display boards with informal one-on-one discussions, etc. Residents will be encouraged to complete comment sheets to provide feedback to the consulting team.

The Phase 1 PIC will be conducted following the Municipality's review of the Draft Master Plan Phase 1 Report (i.e., Design Basis Memo, level of service definition and Problem / Opportunity Statement). The Phase 1 Report will present the current state of infrastructure and any identified shortfalls in providing services to committed future developments. The public, agencies, and other interest groups (e.g., Council Members, etc.) will be given an opportunity to review and comment on the information presented. The Consulting Team will compile comments collected during the PIC to help inform recommendations in the Master Plan Report.

The Phase 2 PIC will be conducted following the Municipality's review of the Draft Master Plan report. The Draft Master Plan report will provide alternative future servicing options and an evaluation matrix to present the preferred solution. Once staff and public comments are incorporated, we will provide a presentation to Council outlining the outcome of this critical juncture. Subject to Council concurrence, the Master Plan Report will be finalized by incorporating review comments and a Notice of Master Plan Completion will be placed on record for a 30-day review period, during which time any unresolved issues may be addressed.

#### **7.4 Ongoing Promotion and Consultation**

To engage the public and other stakeholders, Master Plan and PIC notices should be placed in the information pages of local newspapers (if required), Municipality's website and posted at the Municipal office. Notices will also be direct mailed/emailed to identified stakeholders, agencies, and adjacent property owners. Master Plan notices could also be provided to the Municipal Council to allow Councillors to inform their constituents about the Master Plan. Phone calls will be made to all interested Indigenous and First Nations groups to confirm that formal notices have been received.

#### **7.5 Website and Social Media**

To assist the public in obtaining information about the Master Plan and to provide an on-going mechanism for feedback to the consulting team, the Municipality should provide space on their website and/or social media for the Master Plan. Information for the website and social media should include notices for the PIC, reports/executive summaries, technical memos and contact information.

#### **7.6 Opportunities to Comment**

At all public meetings, the public and other stakeholders will be encouraged to leave comments following the meeting. Following each consultation activity, a report would be

written that summarizes and records the comments and input received from the participants.

At the beginning of the Master Plan, email and voice mail feedback tools will be established to provide the public and other stakeholders with numerous avenues to provide input and ask questions. These feedback tools will be promoted on all communications materials.

Additional informal meetings may be required, and could be considered if local residents or the business community appear disengaged or dissatisfied with the extent or frequency of consultation activities.

### **7.7 Timing of Public Consultation**

The following schedule lists anticipated dates of key stakeholder consultation activities. These dates are subject to change as the Master Plan moves forward and based on the level of project interest shown by stakeholders.

<b>Activity</b>	<b>Anticipated Date</b>
Notice of Commencement	September 2023
Phase 1 PIC	Winter 2023/2024
Phase 2 PIC	Spring 2024
Council Presentation	Spring/Summer 2024
Notice of Master Plan Completion	Summer 2024

### **8.0 EVALUATION MECHANISMS**

The following activities should be undertaken to evaluate the effectiveness of this public consultation plan:

- Reviewing attendance numbers at the PIC;
- Requesting formal and informal feedback on the consultation process at the PIC, Council meetings and on the study website;
- Tracking the number of visits to the study website and evaluating changes in traffic that occur in response to consultation events (e.g., mailing or emailing out notices); and
- Examining the number and content of emails received from the public and other stakeholders.

## **9.0 CONCLUSIONS**

The activities contained in this public consultation plan reflect the need to have an enhanced outreach program for local residents and regulatory agencies throughout the Master Plan process. The public consultation plan has been developed ensure that the public and other stakeholders are meaningful participants in the Master Plan process.

Maintaining a clear, transparent, and inclusive consultation process will help to ensure that meaningful dialogue takes place so that innovative and achievable servicing strategies can be realized.

**STAKEHOLDER REVIEW AGENCY LIST**  
**Madoc Water, Wastewater and Stormwater Master Plan**

Agency	Category	Name	Title	Email	Address	Delivery Preference
Ministry of the Environment, Conservation, and Parks Environmental Assessment Branch	MECP Agency Review team			eanotification.eregion@ontario.ca		Via Streamlined EA process
Project Review Unit - Eastern Region Environmental Assessment Branch Ministry of the Environment, Conservation and Parks	MECP Agency Review team	Jon orpana	Regional Environmental Planner	jon.orpana@ontario.ca	1259 Gardiners Rd. PO Box 22032 Kingston ON K7M 8S5	1 copy
Quinte Conservation Authority	MECP Agency Review team			info@quinteconservation.ca cc: Adickens@quinteconservation.ca	2061 Old Highway 2, Belleville ON K8N 4Z2	Electronic - Email
Ontario Power Generation	MECP Agency Review team	Tammy Wong	Sr. Environment Specialist Corporate EHS Programs	tammy.wong@opg.com	700 University Avenue Toronto ON M5G 1X6	Email
Ministry of Mines	MECP Agency Review team	Tracey Burton	Manager (A) Strategic Support Unit - Mines and Minerals Division	T: 705-918-1609 tracey.burton@ontario.ca	Willet Green Miller Centre, 2nd Flr 933 Ramsey Lake Rd Sudbury ON P3E 6B5	Email
Ministry of Mines	MECP Agency Review team	Melanie Johnson	Strategic Initiatives Lead Strategic Support Unit Mines and Minerals Division	T: 705-698-5041 melanie.johnson@ontario.ca	Willet Green Miller Centre, 2nd Flr 933 Ramsey Lake Rd Sudbury ON P3E 6B5	Email
HydroOne	MECP Agency Review team			SecondaryLandUse@HydroOne.com		Electronic - Email
Ministry of Indigenous Affairs	MECP Agency Review team					Contact MECP to determine if the Ministry of Indigenous Affairs should be notified
Ontario Provincial Police	MECP Agency Review team	Jennifer Davey	Administrative Assistant, Research and Program Evaluation Unit / Research Planning & Analysis Section	jennifer.davey@opp.ca	777 Memorial Avenue Orillia ON L3V 7V3	Downloading preferred
Ministry of Health and Long Term Care - Hastings Prince Edward Health Unit	MECP Agency Review team	Dr. Ethan Toumishey	Medical Officer of Health		179 North Park Street Belleville, ON K8P 4P1	1 Hard Copy
Ministry of Citizenship and Multiculturalism - Heritage, Tourism and Culture Division	MECP Agency Review team	Karla Barboza	Team Lead (A), Heritage Planning Unit Programs and Services Br	karla.barboza@ontario.ca	400 University Ave. 5th Floor Toronto ON M7A 2R9	Electronic - Email
Ministry of Citizenship and Multiculturalism- Tourism Policy and Research Branch	MECP Agency Review team	Katie Crowley	Regional Deveopment Advisor - Tourism   Regional Services Bra	katie.crowley@ontario.ca	Ministry of Tourism, Culture and Sport 300 Water Street, 2nd Floor, South Tower Peterborough, ON K9H 8M5	email
Ministry of Citizenship and Multiculturalism- Tourism Policy and Research Branch	MECP Agency Review team	James (Jim) Antler	Policy Advisor, Tourism Policy Unit	james.antler@ontario.ca Laurie.brownlee@ontario.ca	447 McKeown Avenue, Suite 203 North Bay ON P1B 9S9	Email - Electronic
Ministry of Municipal Affairs and Housing	MECP Agency Review team	Michael Elms	Manager, Community Planning and Development, Eastern Ontario Services Office	michael.elms@ontario.ca	8 Estate Lane (Rockwood House) Kingston ON K7M 9A8	1 hard copy
Infrastructure Ontario	MECP Agency Review team	Joanna Brown	Environmental Specialist	joanna.brown@infrastructureontario.ca	14 Gable Lane Kingston ON K7M 9A7	Email - Electronic
Infrastructure Ontario	MECP Agency Review team	Ainsley Davidson	Director (A) - Land Use Planning, Development Planning	ainsley.davidson@infrastructureontario.ca	1 Dundas St. W., Suite 2000 Toronto ON M5G 1Z3	Email - Electronic
Infrastructure Ontario	MECP Agency Review team	Joanna Craig	Portfolio Analyst	joanna.craig@infrastructureontario.ca cc: noticereview@infrastructureontario.ca	1 Dundas St. W., Suite 2000 Toronto ON M5G 1Z3	Email - Electronic
Ministry of Northern Development, Mines, Natural Resources and Forestry - Natural Resources and Forestry	MECP Agency Review team	Keith Johnston	Environmental Planning Team Lead(A) Strategic and Indigenous P	keith.johnston@ontario.ca	Whitney Block Rm 5520 99 Wellesley St W Toronto ON M7A 1W3	Email - Electronic
Ministry of Northern Development, Mines, Natural Resources and Forestry - Natural Resources and Forestry - Southern Region	MECP Agency Review team			SR.Planning@ontario.ca Amanda: T: 705-313-0507		Email - Electronic Report + Notifications
Ministry of Solicitor General	MECP Agency Review team	Robert Greene	Director Ministry of the Solicitor General	robert.greene@ontario.ca	25 Grosvenor Street, 13th Flr Toronto ON M7A 1Y6	Contact to see if they have an interest in the EA
Impact Assessment Agency of Canada	MECP Agency Review team	Anjala Puvananathan	Regional Director, Ontario Regional Office	anjala.puvananathan@iaac-aeic.gc.ca	55 York Street, Suite 600 Toronto ON M5J 1R7	Electronic (USB) version preferred
Environment and Climate Change Canada	MECP Agency Review team	Rob Clavering	Manager - Environmental Assessment Section Environmental Protection Branch – Ontario Region Environment and Climate Change Canada	T: 416-458-9670 robert.clavering@ec.gc.ca	4905 Dufferin St. Downsview ON M3H 5T4	Electronic (USB or download) version preferred



**STAKEHOLDER REVIEW AGENCY LIST**  
**Madoc Water, Wastewater and Stormwater Master Plan**

Fisheries and Oceans Canada – Communication Branch	MECP Agency Review team				200 Kent Street, 13 <sup>th</sup> Floor, Station 13E228, Ottawa ON K1A 0E6	Consult DFO (if DFO review required).
Ministry of Agriculture, Food, and Rural Affairs	MECP Agency Review team	Jocelyn Beatty	Land Use Policy & Stewardship Food Safety and Environmental Policy Branch Ministry of Agriculture, Food & Rural Affairs	omafra.eanotices@ontario.ca	Elora Resource Centre 6484 Wellington Rd 7 – Unit 10 Elora ON NOB 1S0	Email omafra.eanotices@ontario.ca as initial step prior to circulating documents.
Fire Services - Centre Hastings	MECP Agency Review team	Derek Snider	Fire Chief	dsnider@centrehastings.com	244 St Lawrence St W Madoc, ON	Email
Transport Canada	MECP Agency Review team			EnviroOnt@tc.gc.ca		Contact to see if they have an interest in the EA.
Metis	Aboriginal Group			mno@metisnation.org	Suite 1100 – 66 Slater Street Ottawa, Ontario K1P 5H1	Email
Mohawks of the Bay of Quinte	Aboriginal Group	RODRICK DONALD MA	Chief	613-396-3424	24 MEADOW DRIVE TYENDINAGA MOHAWK TERRITORY, Ontario K0K1X0	Mail
Alderville First Nation	Aboriginal Group	James Marsden	Chief	jmarsden@alderville.ca	11696 Second Line P.O. Box 46 Roseneath ON K0K 2X0	Email
Curve Lake First Nation	Aboriginal Group	Keith Knott	Chief	keithk@curvelake.ca	22 Winookeeda Road Curve Lake ON K0L 1R0	Email
Hiawatha First Nation	Aboriginal Group	Laurie Carr	Chief	chiefcarr@hiawathafn.ca	123 Paudash Street R.R. #2 KEENE ON K0L 2G0	Email
Mississaugas of Scugog Island	Aboriginal Group	Kelly LaRocca	Chief	klarocca@scugogfirstnation.com	22521 Island Road Port Perry ON L9L 1B6	Email
Kawartha Nishnawbe First Nation	Aboriginal Group	Kris Nahrgang	Chief	Rknahrgang@gmail.com	257 Big Cedar Lake Road Big Cedar ON K0L 2H0	Email
Williams Treaty First Nation	Aboriginal Group	Karry Sandy-Mackenzie	Williams Treaty First Nation Claims Coordinator		8 Creswick Court BARRIE ON L4M 2S7	Mail
Huron Wendat FN	Aboriginal Group		Admin	administration@wendake.ca	255 Place Chef Michel Laveau Wendake, QC G0A 4V0	Email
Madoc Township	Neighbouring Municipality	Lloyd Blackburn	Mayor	343-645-5515 blackburnl@hastingscounty.com Tonwship Office: Phone: (613) 473-2677 Fax: (613) 473-5580	15651 Highway 62 Eldorado, Ontario K0K 1Y0	Email
County of Hastings	Neighbouring Municipality	Connor Dorey	CAO	doreyc@hastingscounty.com (613) 966-1311 ext. 3204	Hastings County Administration Building 235 Pinnacle St., P.O. Bag 4400 Belleville ON K8N 3A9	Email
Moir Lake Property Owners Association	Local Interest Groups and Developers	Joe Kaehler	President	613-827-8690 jkaehler@hotmail.co.uk		Email
Morey Carpentry	Local Interest Groups and Developers	Matthew Morey and San	Owner	matt@morecarpentry.ca	2149 Quin-Mo-Lac Rd, Tweed ON K0K3J0	Email
Golf Vista Homes Corp.	Local Interest Groups and Developers	John Spina	Owner	john@mdtrgroup.com , steven@mdtrgroup	16-7681 Highway 27, Vaughan ON L4L4M5	Email
2403496 Ontario Inc. (Bonter's Development)	Local Interest Groups and Developers	Robert and Shelley Bont	Owners	sbonter@hpedsb.on.ca	PO Box 568 220 St Lawrence St E, Madoc ON K0K2K0	Mail
Eesa Construction Inc (Moir Meadow's Development)	Local Interest Groups and Developers	Joseph Remislar	Agent	remislar@rogers.com	Unit 8-1345 Morningside Ave, Scarborough ON M1B5K3	Email
Danford Construction Ltd. (Deer Creek Homestead and Maud Street)	Local Interest Groups and Developers	Al Danford	Owner	info@danfordconstructionltd.com	PO Box 749 326 Durham Street South, Madoc ON K0K2K0	Email
Danford Homes Inc. (Deer Creek Homestead)	Local Interest Groups and Developers	Chris Rashotte / Steven	Agents	info@danfordconstruction.com	PO Box 220, Tweed ON K0K3J0	Mail

**STAKEHOLDER REVIEW AGENCY LIST**  
**Madoc Water, Wastewater and Stormwater Master Plan**

Farnsworth Construction Ltd (95 Rollins Street Development)	Local Interest Groups and Developers	Andy Farnsworth	Owner	andygunning@gmail.com	PO Box 88, Stirling ON K0K3E0	Email
Patricia Kincaid	Local Interest Groups and Developers	Patricia Kincaid			RR1 Gilmour ON K0L1W0	Mail
Frank Converso	Local Interest Groups and Developers	Frank Converso			30 Rockview Gardens Ave, Concord ON L4K2J6	Mail
Gardens Retirement Developments Inc. (Bonjour Blvd Retirement Home)	Local Interest Groups and Developers	Bill Mardimae	Owner	bill@gardensdevelopments.com	12 Kensington Drive, Richmond Hill ON L4E 3M9	Email
1000532819 Ontario Corp (Wellington St / Duncan St Development)	Local Interest Groups and Developers				15 Wellington St, Brockville ON K6V1N8	Mail
Octate Inc and 12447304 Canada Inc. (Bonjour Blvd and A&W)	Local Interest Groups and Developers	Ken Issac		Ken.kiarch@outlook.com	Unit B-6445 Kennedy Rd, Mississauga ON L5T2W4	Email
1000325925 Ontario Inc. (Commercial Development East of McDonalds)	Local Interest Groups and Developers				12 Murdoch Crt, Lindsay ON K9V6L4	Mail

# Notice of Study Commencement

## Madoc Water, Wastewater and Stormwater Master Plan

The Municipality of Centre Hastings has initiated a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater and Stormwater Master Plan for Madoc.

### How Will This Affect Me?

The Master Plan study is assessing various options to improve the performance and reliability of the water, wastewater and stormwater infrastructure to ensure they can be relied upon to accommodate current and future flows generated within the urban boundary of Madoc.

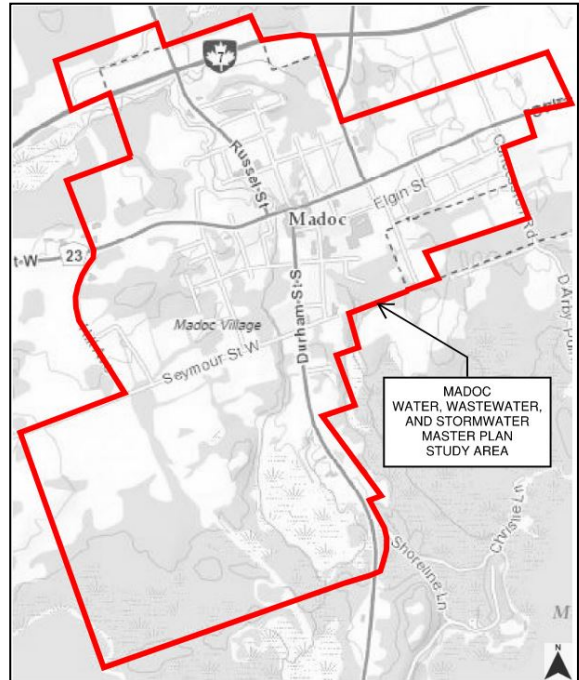
Public and agency consultation is a key part of the Master Planning process. Based on your input, the Master Plan study will identify preferred solution(s) that will benefit the community over the short, mid, and long terms.

### How Do I Get More Information?

Two Public Information Centres will be held in 2024 prior to confirming the preferred servicing solutions. In the meantime, the study team will review background information and determine alternative solutions. You can contact a member of the study team listed below with any questions or to provide input on the Master Plan study. Updates will also be provided throughout the Master Plan study on the Municipality's website.

Susan Jingmiao Shi, P.Eng., M.Eng.  
Senior Environmental Engineer  
J.L. Richards & Associates Limited  
203-863 Princess Street  
Kingston, ON K7L 5N4  
sshij@lrichards.ca

Jose Casal, M.Sc., P.Eng., PMP  
Senior Specialist / Project Manager  
Ontario Clean Water Agency  
2085 Hurontario Street, 5<sup>th</sup> floor  
Mississauga, ON L5A 4G1  
JCasal@ocwa.ca



This study is being conducted according to the requirements of Approach 1 of a Master Plan under the Ontario Municipal Class Environmental Assessment process (October 2000, as amended in 2015 and 2023).

This Notice was issued on December 4<sup>th</sup>, 2023.

# Notice of Study Commencement

## Amendment #1

### Madoc Water, Wastewater and Stormwater Master Plan

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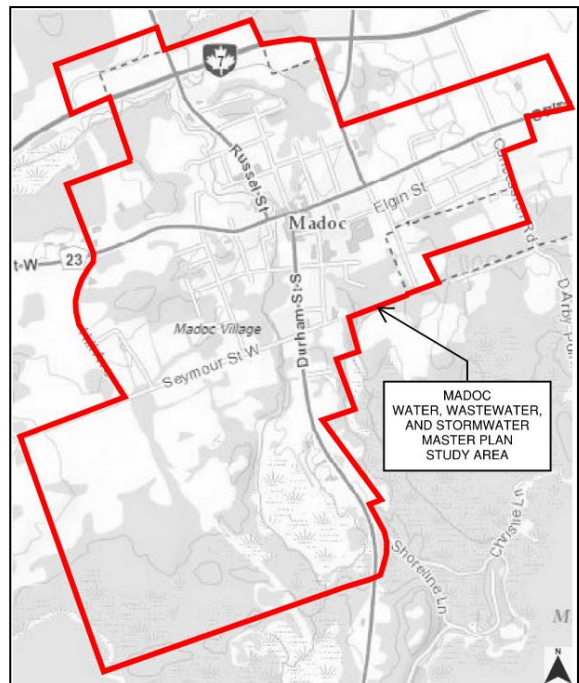
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Susan Jingmiao Shi, P.Eng., M.Eng.  
Senior Environmental Engineer  
J.L. Richards & Associates Limited  
203-863 Princess Street  
Kingston, ON K7L 5N4  
sshij@jlrichards.ca

Allison Mokracki, P.Eng.  
Water and Wastewater Engineer  
Ontario Clean Water Agency  
2085 Hurontario Street, 5<sup>th</sup> floor  
Mississauga, ON L5A 4G1  
amokracki@ocwa.com



This study is being conducted according to the requirements of Approach 1 of a Master Plan under the Ontario Municipal Class Environmental Assessment process (October 2000, as amended in 2015 and 2023).

This Notice was issued on January 2<sup>nd</sup>, 2024.



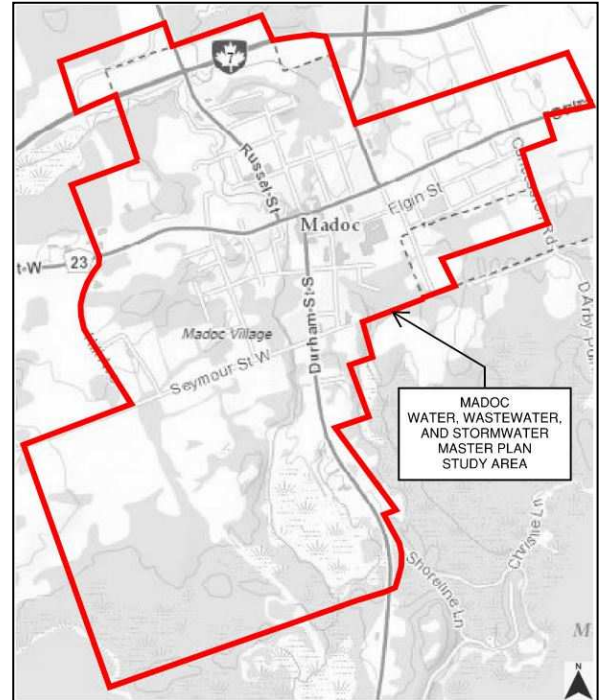
# Notice of Public Information Centre #1

## Madoc Water, Wastewater and Stormwater Master Plan

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The Master Plan study is assessing various options to improve the performance and reliability of the water, wastewater and stormwater infrastructure to ensure they can be relied upon to accommodate current and future growth.

Public and agency consultation is a key part of the Master Planning process. The Public Information Centre provides an opportunity for the public and stakeholder agencies to speak directly to the Project Team. The Public Information Centre No. 1 will provide an overview of the work completed to-date, including a review of future development within the Study Area over the Master Plan timeframe and existing servicing conditions. A second Public Information Centre will be held later this year to present the preferred servicing solutions. The Public Information Centre No.1 is scheduled as follows:



**Date: February 27<sup>th</sup>, 2024** (Inclement Weather Day – February 29, 2024)

**Time: 5:00 p.m. to 7:00 p.m.**

**Location: Arts Centre Hastings, 24 Seymour Street West, Madoc, ON**

Project information will also be provided on the Municipality's website at [centrehastings.com/masterplan](https://centrehastings.com/masterplan). If you have any questions regarding the study, please contact one of the people listed below. We welcome your feedback.

Susan Jingmiao Shi, P.Eng., M.Eng.  
Senior Environmental Engineer  
J.L. Richards & Associates Limited  
203-863 Princess Street  
Kingston, ON K7L 5N4  
sshij@jlrichards.ca

Allison Mokracki, P.Eng.  
Water and Wastewater Engineer  
Ontario Clean Water Agency  
2085 Hurontario Street, 5<sup>th</sup> floor  
Mississauga, ON L5A 4G1  
amokracki@ocwa.com

This study is being conducted according to the requirements of Approach 1 of a Master Plan under the Ontario Municipal Class Environmental Assessment process (October 2000, as amended in 2015 and 2023). Please note that ALL personal information included in a Part II Order submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of the Environment and Climate Change for the purpose of transparency and consultation. The information is collected under the authority of the Environmental Assessment Act or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the Freedom of Information and Protection of Privacy Act. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the ministry's Freedom of Information and Privacy Coordinator at 416-327-1434.

This Notice was issued on January 18<sup>th</sup>, 2024.

HASTINGS

*Centre Hastings*

COUNTY

**PUBLIC INFORMATION CENTRE**

# **Water, Wastewater, Stormwater Master Plan**

- February 27, 2024**
- 5:00pm - 7:00pm**
- 24 Seymour Seymour  
Street West, Madoc  
(Arts Centre)**

- Inclement weather date:  
February 29, 2024  
5:00pm - 7:00pm**

**The Master Plan is assessing various options to improve the performance and reliability of the water, wastewater, and stormwater infrastructure to ensure they can be relied upon to accommodate future growth.**

**Additional info? Visit:**  
[\*\*centrehastings.com/masterplan\*\*](http://centrehastings.com/masterplan)

HASTINGS

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HASTINGS

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# Madoc Water, Wastewater and Stormwater Master Plan

**Public Information Centre #1**

February 27<sup>th</sup>, 2024

**Welcome! Please sign in.**



# The Municipal Class Environmental Assessment Master Plan Process

## Class EA Process

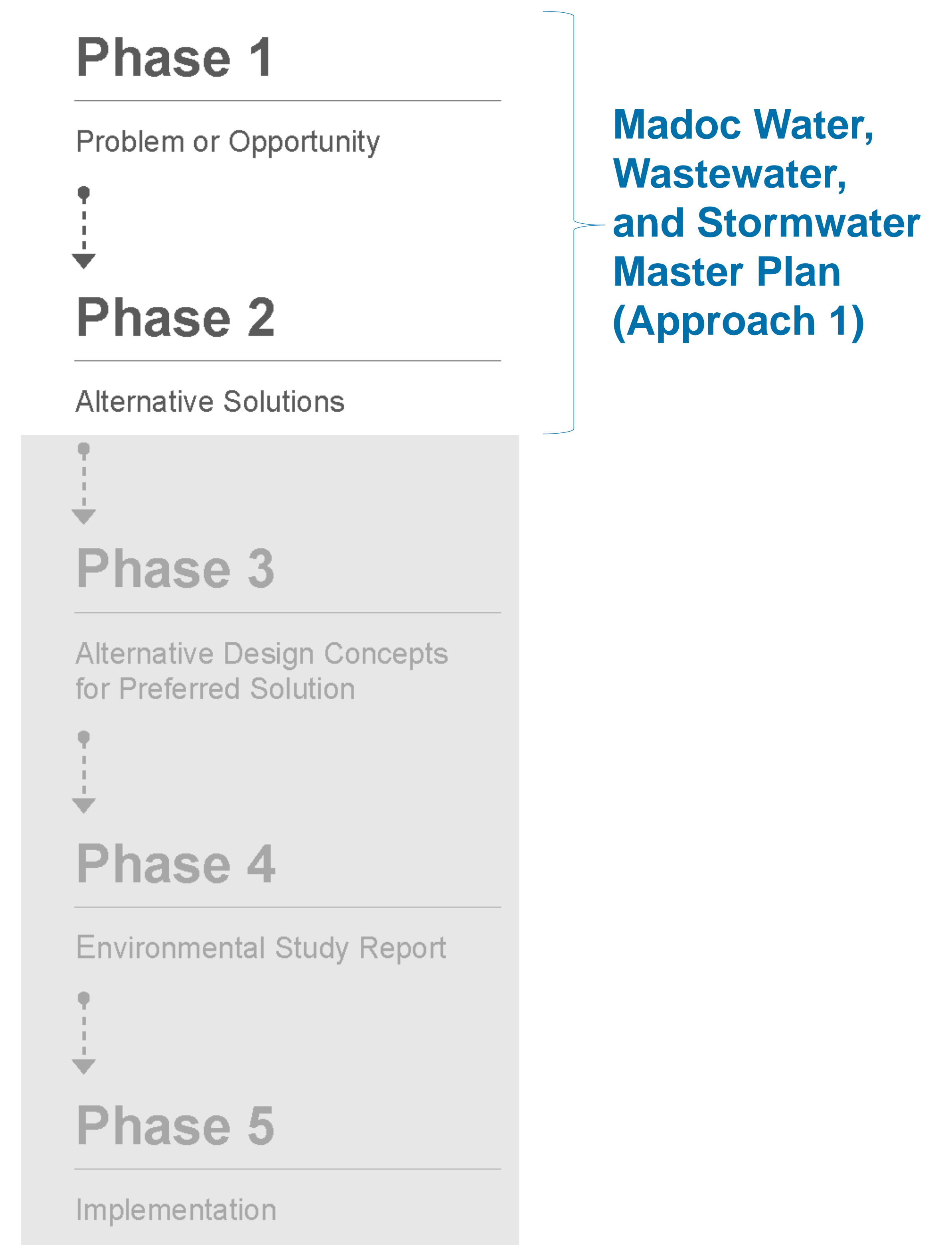
The *Ontario Environmental Assessment (EA) Act*, R.S.O., 1990 requires that projects corresponding to municipal infrastructure projects, including roads, water, and wastewater projects follow an approved planning process set out in the Municipal Class EA document prepared by the Municipal Engineers Association (MEA).

## Master Plan Process

Master Plans are conducted under the framework of the MEA Class EA Process. They are a planning tool that identifies infrastructure and other requirements for the existing and future land use, through the application of environmental assessment principles. The current Master Plan is intended to satisfy Phases 1 and 2 of the Municipal Class EA process (i.e., *Approach 1*).

## Master Plan Approach 1

This approach concludes at the end of Phases 1 and 2. With this approach, the Master Plan is being completed at a broad level of assessment and may require further detailed assessment at the project-specific level.

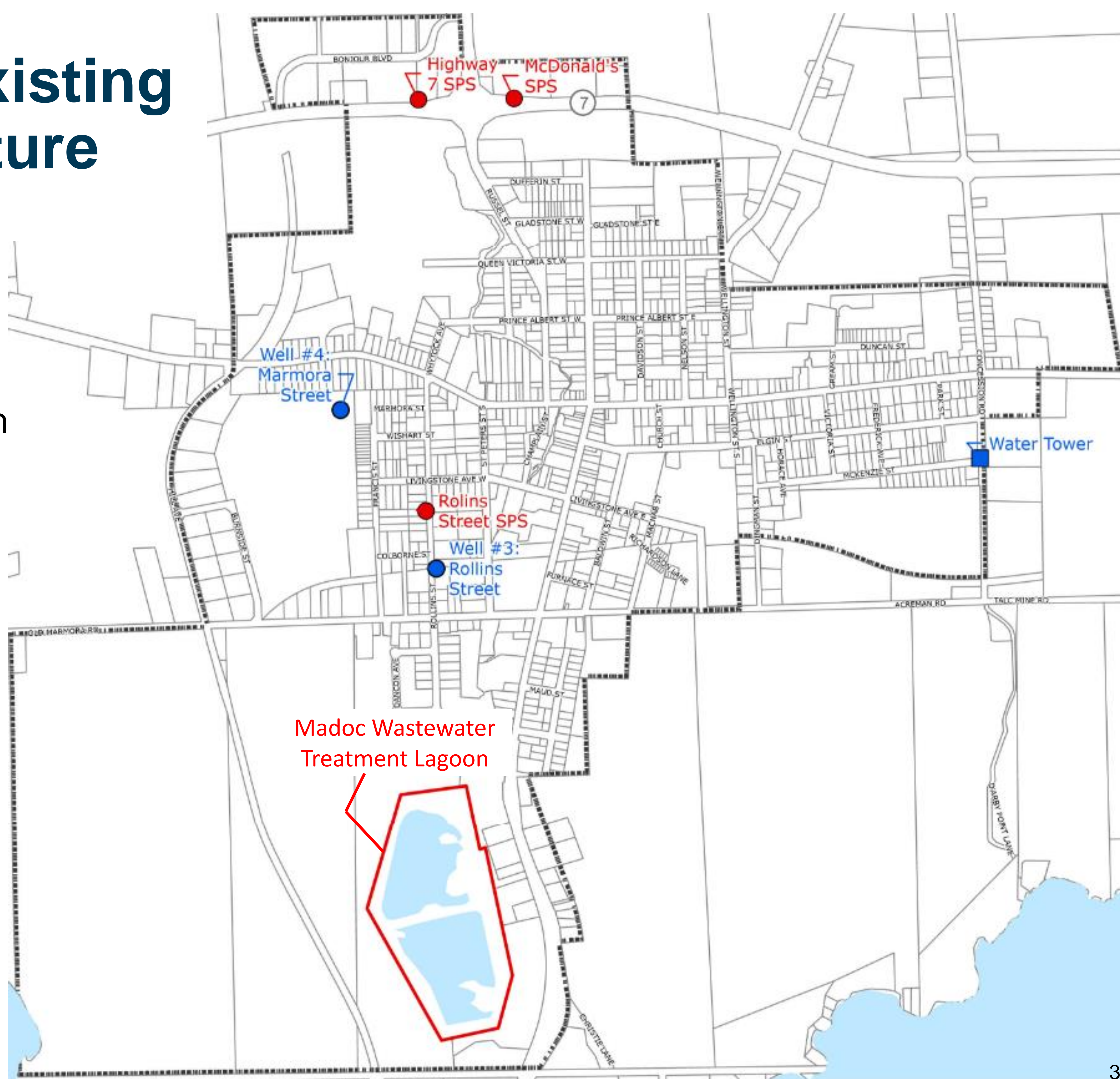




# Overview of Existing Key Infrastructure

- Rollins Street Well #3
- Marmora Street Well #4
- Water Tower
- Water Distribution System
- Sanitary Collection System
- Three Sewage Pump Stations (SPS)
- Wastewater Treatment Lagoon
- Stormwater System

The existing serviced population in the Village of Madoc is approximately 1,500.





# Objectives of the Madoc Water, Wastewater and Stormwater Master Plan Phase 1

- Establish short-term, mid-term, long-term and build-out growth projections;
- Provide a description of existing conditions and constraints associated with water, wastewater and stormwater infrastructure;
- Determine the residual capacity for water supply/treatment and sewage lagoons;
- Estimate timing for when rated capacity of each system will be reached;
- Establish design basis for future servicing;
- Identify land use, planning, and natural environment constraints;
- Consult with public and stakeholder agencies, and
- Define a Problem/Opportunity Statement.

# Master Plan Methodology and Timeline

## Master Plan Phase 1 – Identify Problem or Opportunity

### Tasks:

- Review and collect background information.
- Develop residential, institutional, commercial, and industrial development and population growth projections for short, mid, long-term and build-out scenarios.
- Define level of service for existing conditions.
- Review water supply and wastewater treatment lagoon capacity.
- Model water distribution, sanitary collection, and stormwater.
- Undertake public consultation activities.
- Finalize Master Plan Phase 1 Report.

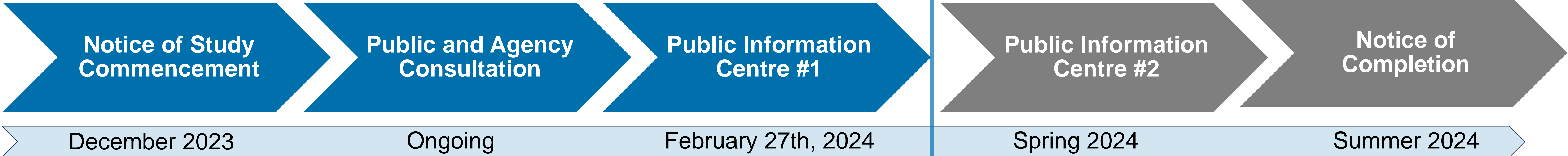
## Master Plan Phase 2 – Identify and Evaluate Alternative Solutions

### Tasks:

- Identify servicing needs under future growth scenarios.
- Develop alternative servicing solutions.
- Develop an implementation/phasing plan.
- Undertake public consultation activities.
- Finalize Master Plan Phase 2 Report.
- Publish Master Plan Report for 30-day public review.



### Project Timeline

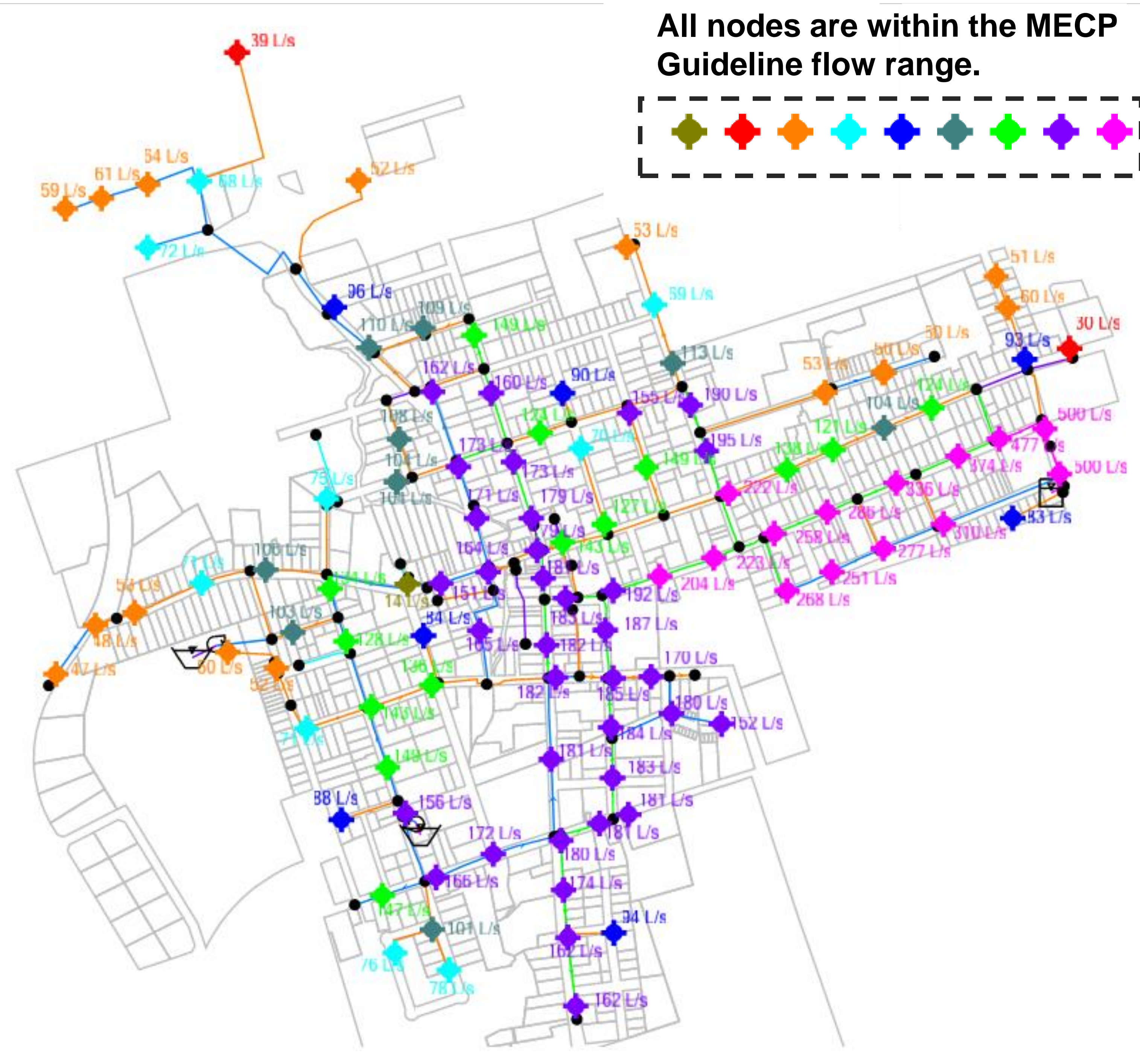




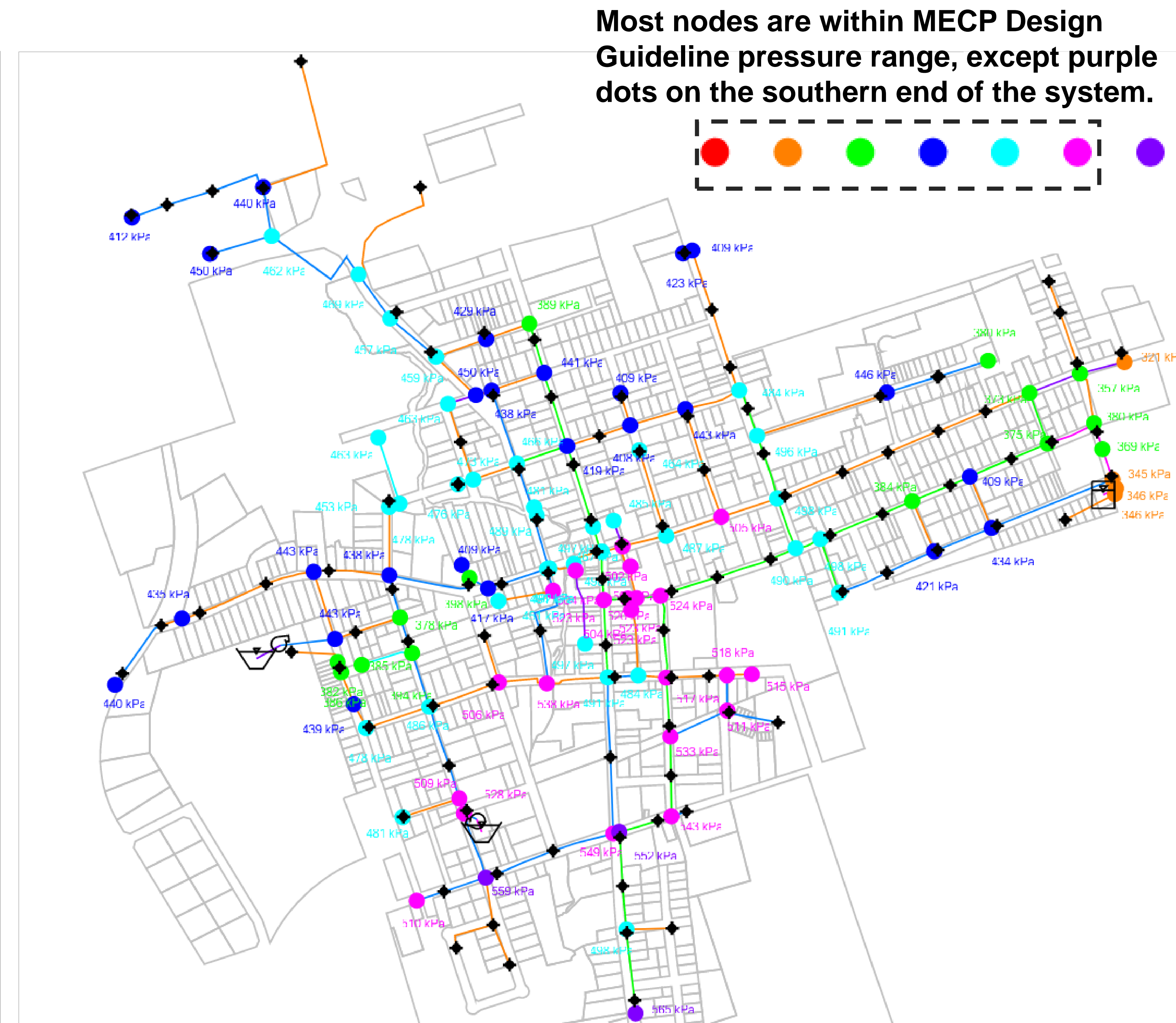
# Existing Water Distribution System

## Water Distribution WaterCAD® Modelling Results:

- The existing water distribution system overall is operating in general accordance with the pressure and flow recommendations of the Ministry of Environment, Conservation and Parks (MECP) design guidelines.



Water Distribution Flows under Existing Maximum Day Demand + Fire Flow

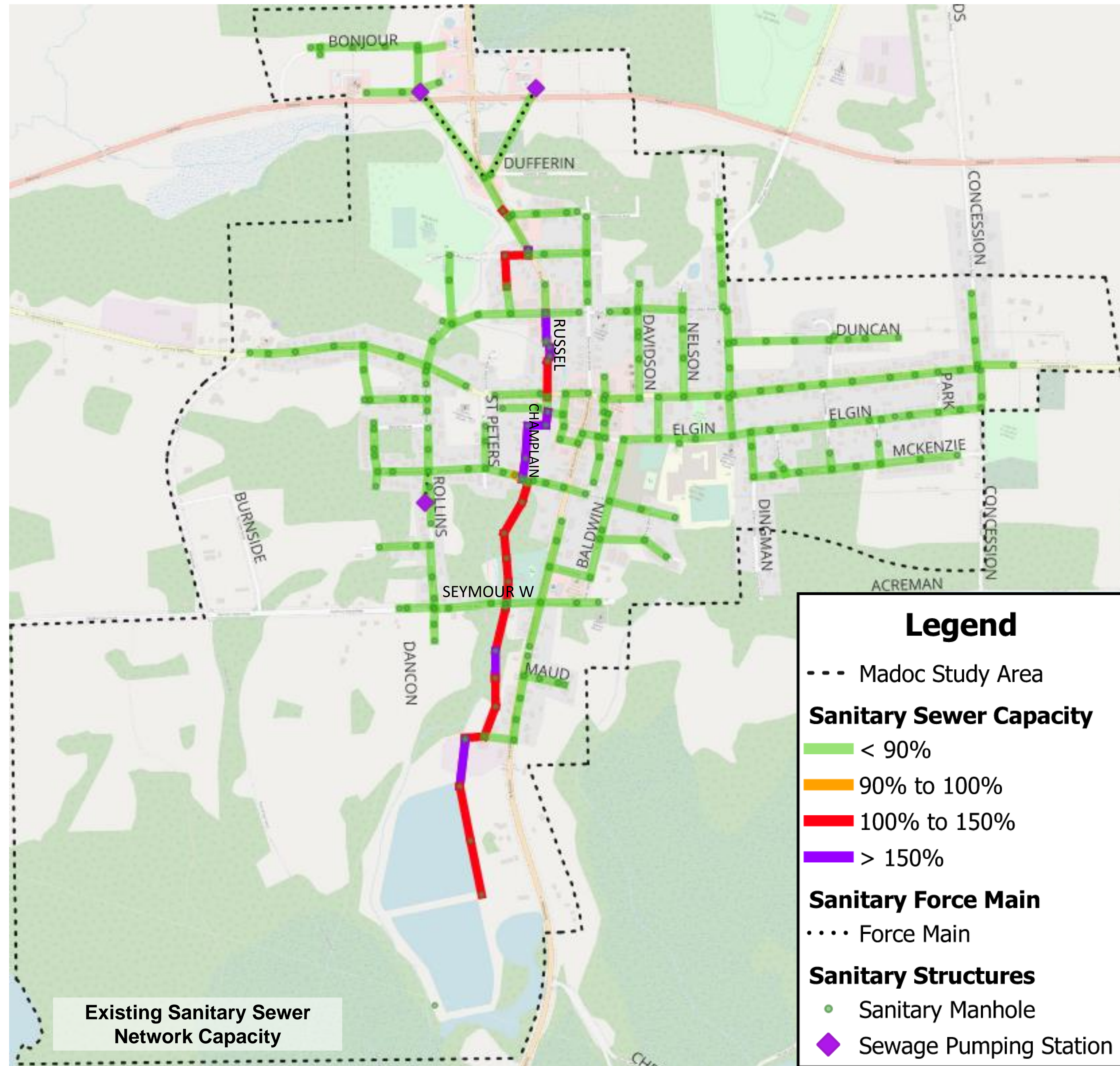


Water Distribution Pressure under Existing Peak Hour Demand



# Existing Sanitary Collection System

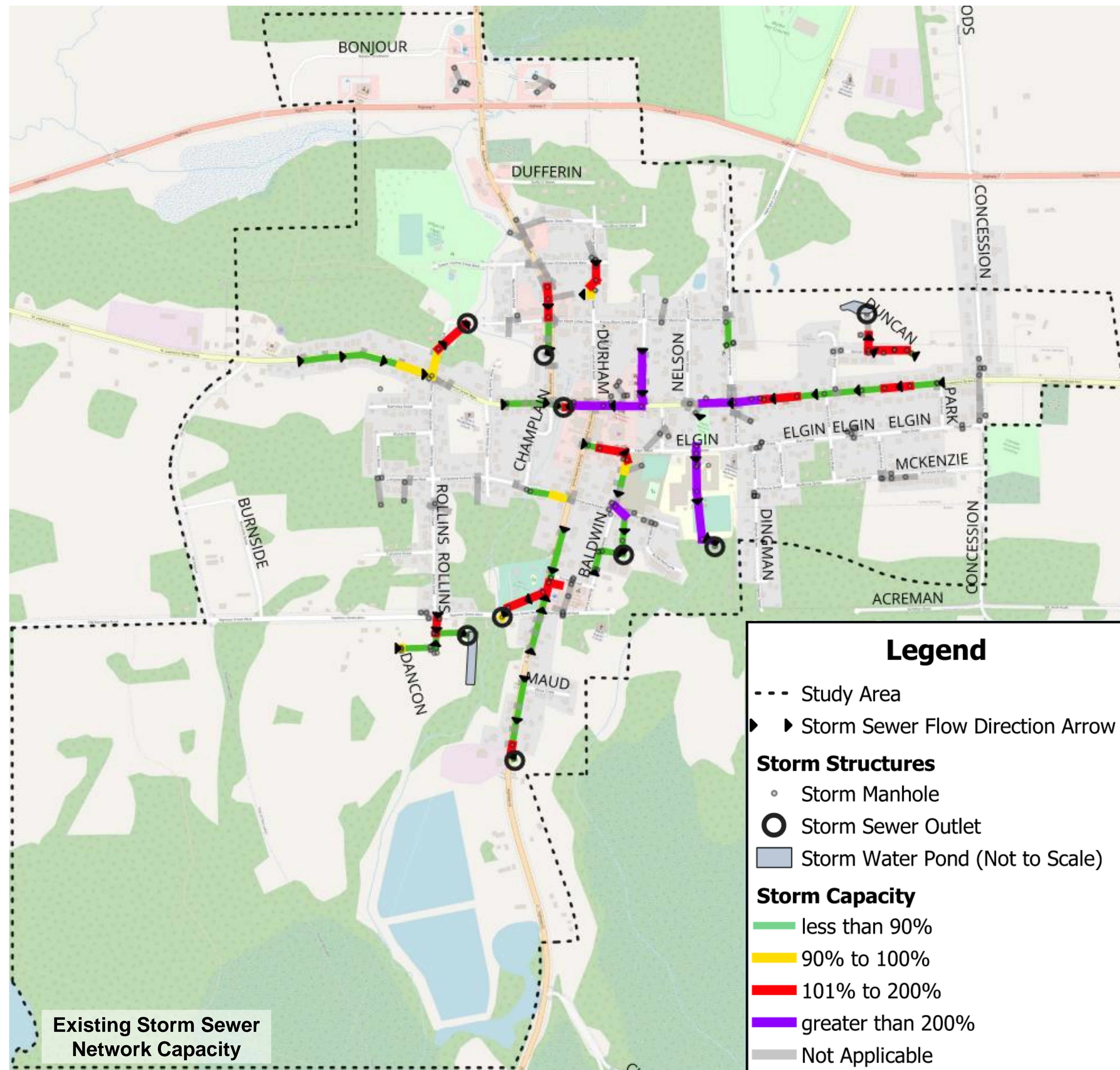
- Sanitary sewer modelling shows insufficient capacity along:
  - Russel St.
  - Champlain St.
  - Trunk sewer line south of Seymour St. W
- Some pipe segments have a slope and velocity which do not meet current MECP design guidelines





# Existing Storm Collection System

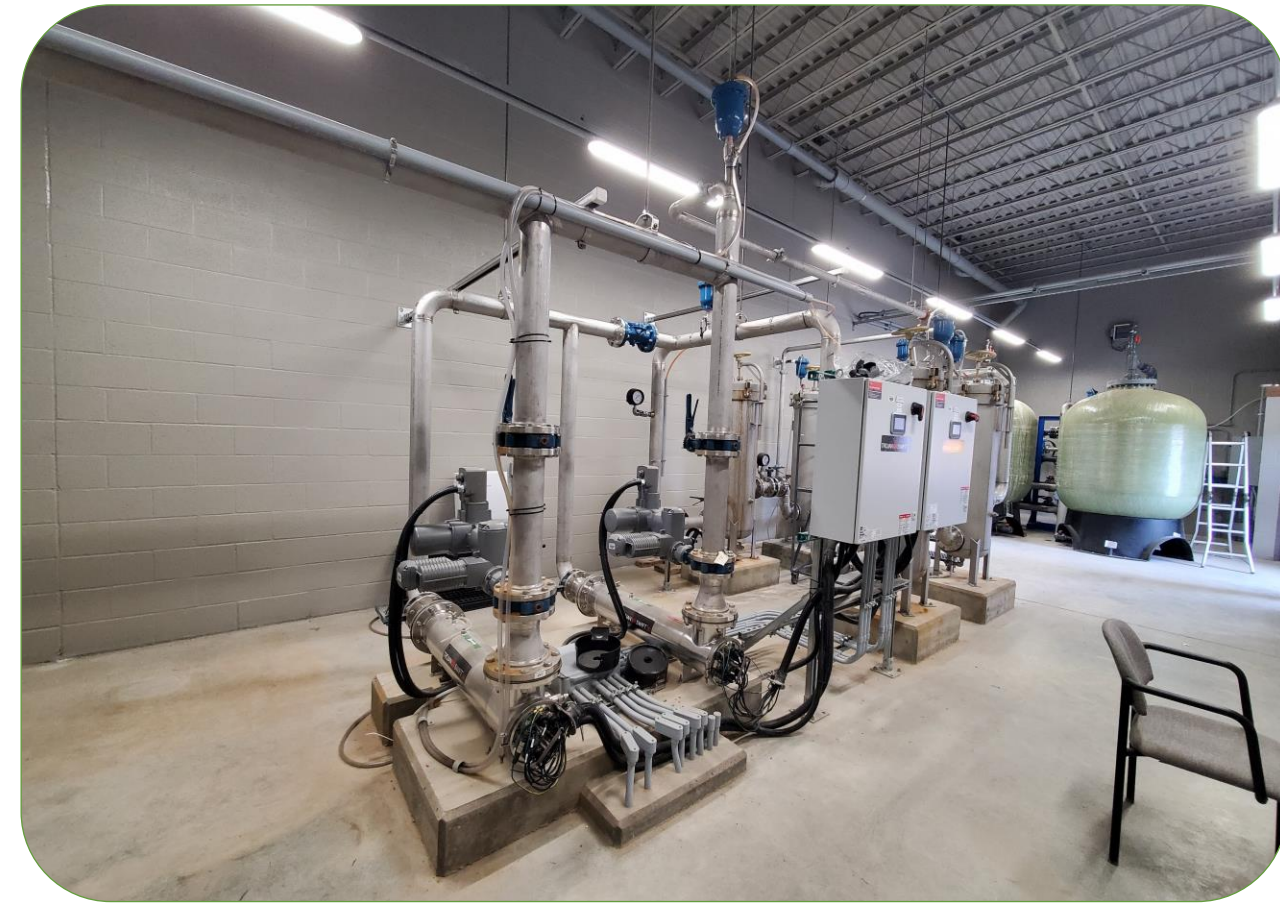
- Stormwater modelling shows insufficient capacity along:
  - St. Lawrence St. E
  - Durham St. N
  - Russel St.
  - Davidson St.
  - Baldwin St.
  - Durham St. S.



Existing Storm Sewer Network Capacity



# Existing Water and Wastewater Facilities



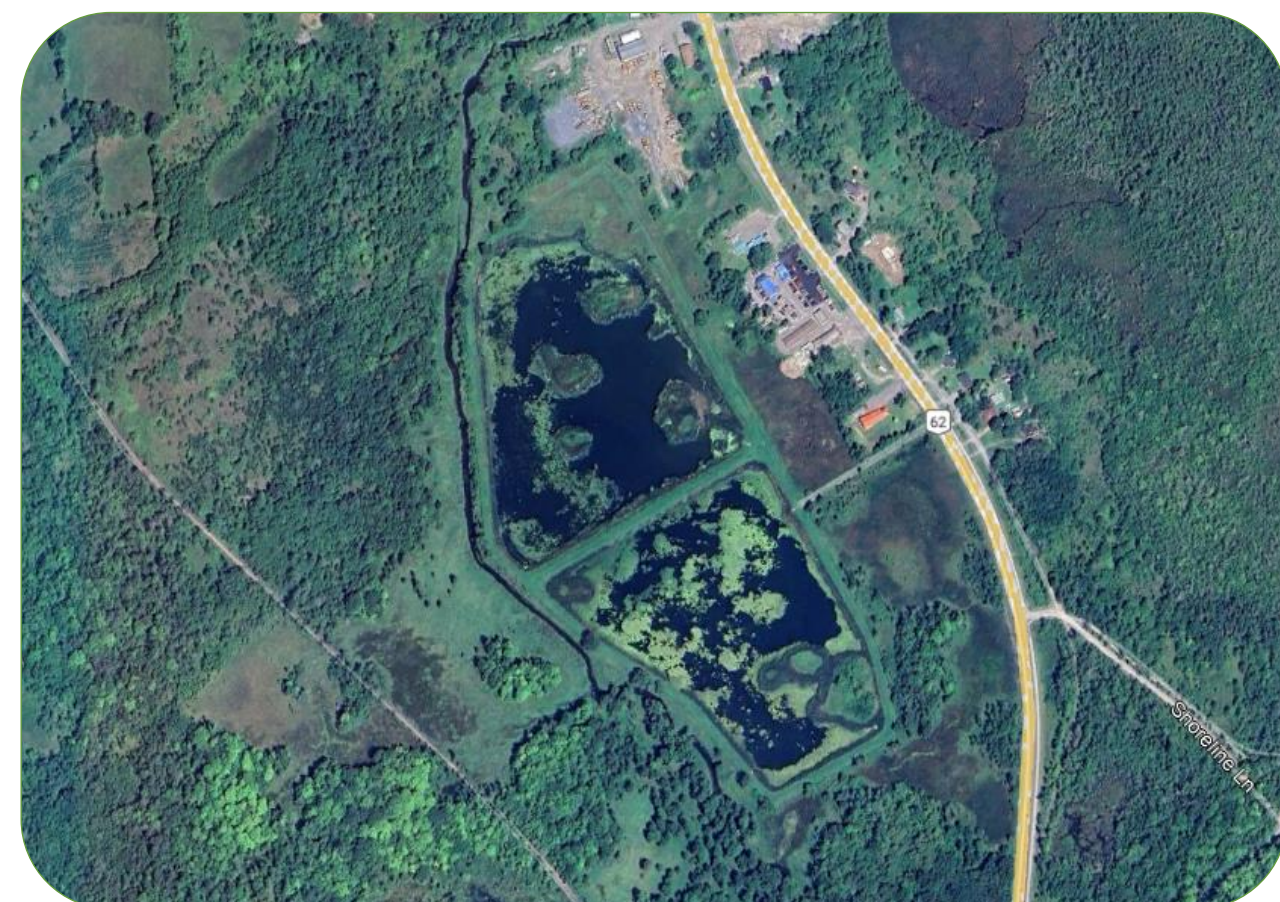
## Water Supply and Treatment

- Both water supply wells are under the direct influence of surface water with a combined allowed water taking rate of 2,620 cubic metres per day ( $m^3/d$ ) or 30.3 litres per second (L/s).
- Operates under Permit to Take Water No. 2660-B5FQPP, Drinking Water Works Permit No. 153-201 and Municipal Drinking Water License 153-101.
- Currently operates at 35% capacity.



## Water Storage

- Provides equalization storage, fire protection and emergency storage.
- Currently operates at 80% capacity.
- 100% capacity will be reached in the short-term (0-5 years).



## Wastewater Treatment Lagoons

- Discharges to Deer Creek. Operates under Environmental Compliance Approval 1652-BRKT58 with a rated capacity of 1,008  $m^3/d$  or 11.7 L/s.
- Seasonal discharge lagoons currently operating at 73% capacity.
- Historically the lagoons have provided treatment above and beyond compliance requirements.



# Overview of Estimated Future Growth

## Residential Developments

Development Timeframe	Additional Units	Estimated Population Increase
Short-Term (0-5 Years; 2024-2029)	155 units	400 people
Mid-Term (5-10 Years; 2029-2034)	341 units	891 people
Long-Term (10-20 Years; 2034-2044)	852 units	1,233 people
Build-Out (20- 30 Years; 2044-2054)	1,032 Units	3,353 people

## Institutional / Commercial / Industrial Developments

Development Timeframe	Development Type	Estimated Growth
Short-Term (0-5 Years; 2022-2027)	Long Term Care	128 Beds
Mid-Term (5-10 Years; 2027-2032)	Commercial	3.8 Hectares
Long-Term (10-20 Years; 2034-2044)	Commercial and Typical Industrial	10.3 Hectares
Build-Out (20-30 Years; 2044-2054)	Commercial	2.5 Hectares

**Maps of future developments are available**  
Please see a member of the project team.



# Future Servicing Constraints

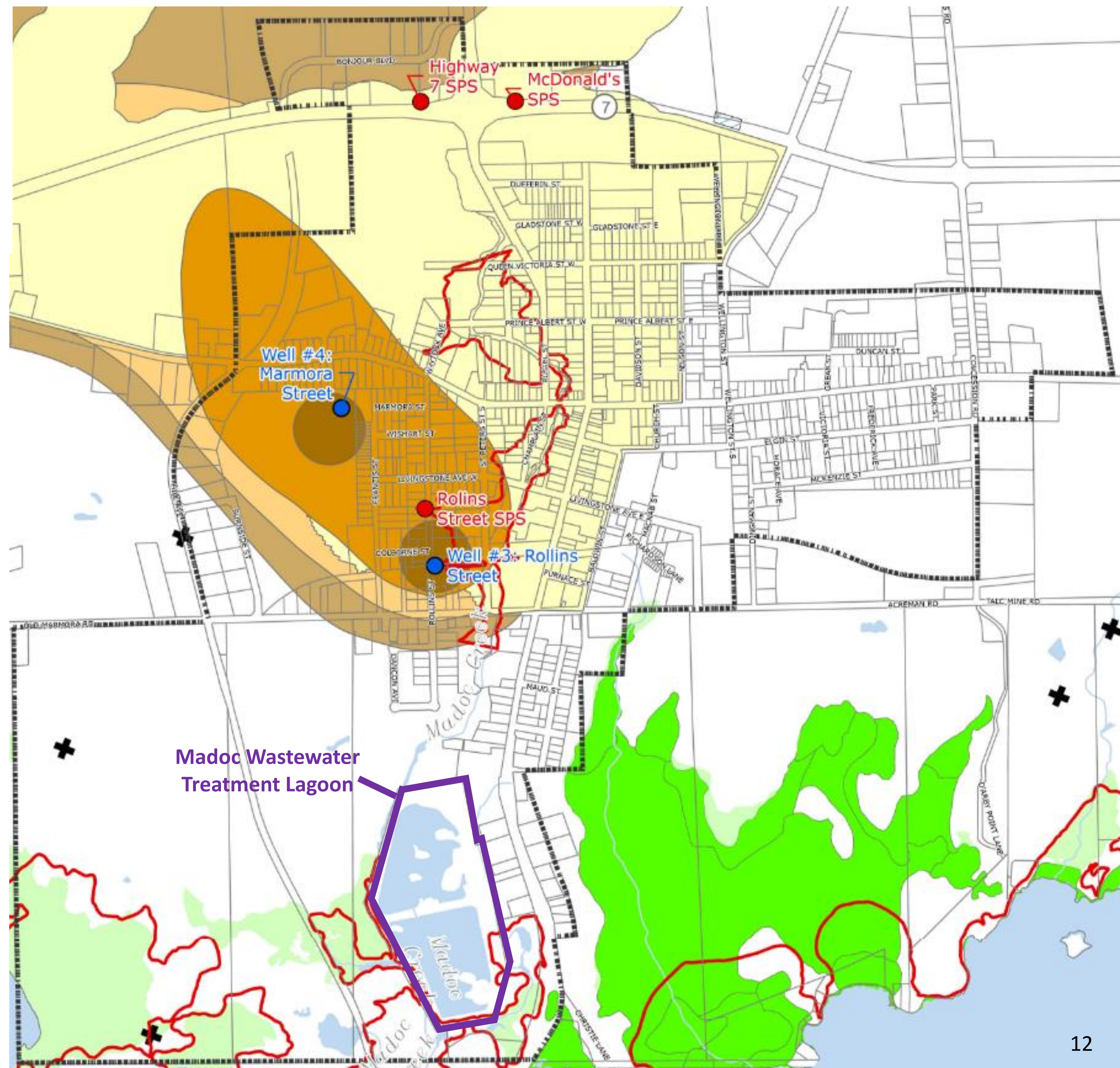
	<b>Water Supply and Treatment</b>	<b>Water Storage</b>	<b>Wastewater Lagoon</b>	<b>Water Distribution, Sanitary Sewer, and Storm Sewer</b>
Short-Term (0-5 Years)	Reach 59% of the existing capacity	Reach 112% of the existing capacity	Reach 104% of the existing capacity	Future servicing requirements will be identified in Phase 2 of the Master Plan
Mid-Term (5-10 Years)	Reach 88% of the existing capacity	Reach 144% of the capacity	Reach 146% of the existing capacity	
Long-Term (10-20 Years)	Reach 144% of the existing capacity	Reach 266% of the existing capacity	Reach 211% of the existing capacity	
Build-Out (20-30 Years)	Reach 230% of the existing capacity	Reach 350% of the existing capacity	Reach 345% of the existing capacity	



# Natural Environmental Constraints

## Legend

-  Abandoned Mines Information System Sites
-  Floodline
-  Watercourse
-  Waterbody
-  Wastewater Treatment Lagoon
-  Wells
-  Sewage Pumping Station (SPS)
-  Study Area
-  Area of Natural and Scientific Interest, Earth Science Wetland
-  Evaluate - Locally Significant
-  Not Evaluated
- Wellhead Protection Areas**
-  A - 100m radius around well
-  B - pollution reached in 2 years
-  C - pollution reached in 2-5 years
-  D - pollution reached in 5-25 Years
-  E - direct pollution pathway to water source





# Problem/Opportunity Statement

**The following Problem/Opportunity Statement has been developed based on the work completed during Phase 1 of the Master Plan process:**

Madoc is serviced by communal water and wastewater systems consisting of Well #3 and Well #4, a water tower, over 16km of watermains, a sewage treatment system, three sewage pumping stations, over 16km of sanitary sewers, and minor storm systems on main road corridors. Water supply, treatment, treated water storage and lagoon treatment systems will not be sufficient to support projected growth within the Madoc servicing area for the next 20 years and beyond. In addition, there are various locations within the sanitary sewer and storm sewer systems that currently experience capacity constraints.

There is an opportunity through the Master Planning process to review the water, wastewater, and stormwater systems holistically and develop a strategic plan that can be prioritized and implemented logically with the intended goal of addressing future servicing needs and ensuring appropriate performance and reliability of Madoc's water, wastewater, and stormwater systems for the upcoming planning period of 20 years and beyond.

# Next Steps

Collect and address comments from Public Information Centre #1.

Finalize Phase 1 of the Master Plan Report.

Begin Phase 2 of the Master Plan (Future Servicing Needs, Alternative Servicing Solutions, Implementation and Phasing Plan).

Collect and address comments from Public Information Centre #2 (Spring 2024).

Finalize recommendations of the Phase 2 Master Plan and Publish for 30-day Public Review (Summer 2024).

# How to Participate

- Send written comments to the project contacts at Ontario Clean Water Agency and J.L. Richards listed below. Please respond by March 12, 2024.

## Allison Mokracki, P.Eng.

Water and Wastewater Engineer  
Ontario Clean Water Agency  
Phone: 905-491-3048  
Email: [amokracki@ocwa.com](mailto:amokracki@ocwa.com)

## Susan Jingmiao Shi, P.Eng., M.Eng.

Associate, Senior Environmental Engineer  
J.L. Richards & Associates Limited  
Phone: 343-302-5406  
Email: [sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)

- Visit the Municipality website at <https://www.centrehastings.com/masterplan> for more updates.



**Madoc Water, Wastewater, and Stormwater Master Plan  
Public Information Centre No.1  
Comment Sheet**

The Municipality of Centre Hastings is interested in receiving the community’s comments, questions, and concerns regarding the existing conditions of water, wastewater, and stormwater infrastructure for Madoc. Please take a few minutes to fill out this brief comment sheet. All comments will be carefully considered while completing the Master Plan.

1. This study is following the requirements of the Municipal Class Environmental Assessment process for an Approach 1 Master Plan. *Do you have any questions, comments, or concerns about the decision-making and public consultation process that are being followed to-date?*

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2. The water supply will reach existing capacity in the long-term (10-20 Years) and the water storage and wastewater lagoon will reach existing capacity in the short-term (0-5 Years) due to estimated development growth. *Do you have any questions, comments, or concerns about the estimated residential, institutional, commercial, and industrial developments?*

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3. There are several steps to be undertaken to complete the Master Plan. *Do you have any comments or questions regarding how this study will be completed?*

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*(Over to the back)*



**Madoc Water, Wastewater, and Stormwater Master Plan  
Public Information Centre No.1  
Comment Sheet**

4. Do you have any additional comments?

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**Thank you for taking the time to provide your comments. Comment sheets may be returned to any of the presenters, or can be mailed, or emailed to the individuals below. Please return comment sheets by March 12<sup>th</sup>, 2024.**

Susan Jingmiao Shi, P.Eng., M.Eng.  
Associate, Senior Environmental Engineer  
J.L. Richards & Associates Limited  
203 – 863 Princess Street  
Kingston, ON, K7L 5N4  
sshij@jlrichards.ca  
Phone: 343-302-5406

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Mississauga, ON L5A 4G1  
amokracki@ocwa.com  
Phone: 905-491-3048

Visit the Municipality website at [www.centrehastings.com](http://www.centrehastings.com) and the project website at <https://www.centrehastings.com/masterplan> for more updates.

# PIC#1 Sign in Sheet

## Madoc Water, Wastewater and Stormwater Master Plan

Name	Postal Code
Doug and Rita Evans	K0K2K0
Jon Bruce	K0K2K0
Michael Gery	K0K2K0
Fred and Grace Tough	K0K2K0
April Spatola	K0K2K0
Roy Kelley	K0K2K0
Marianne Leger	K0K2K0
Jennifer Diaz	K7M 8N2
Elaine Woodland	K7M 8N2
Shawn Lavender	K0K2K0
Clara Hopkins	K0K2K0
Rhyan Lavender	K0K2K0
Eric Sandford	K0K2K0
Tom Deline	K0K2K0



# Notice of Public Information Centre #2

## Madoc Water, Wastewater and Stormwater Master Plan and Schedule 'B' Municipal Class Environmental Assessment for Treated Water Storage Facility in Madoc

The Municipality of Centre Hastings has initiated a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater and Stormwater Master Plan for Madoc.

The Master Plan study is assessing various options to improve the performance and reliability of the water, wastewater and stormwater infrastructure to ensure they can be relied upon to accommodate current and future growth.

Public and agency consultation is a key part of the Master Planning process. The Public Information Centre provides an opportunity for the public and stakeholder agencies to speak directly to the Project Team. The Public Information Centre No. 2 will provide the recommended servicing solutions of the problems identified based on the Phase 1 Master Plan. The Municipality is also advancing the Schedule 'B' Class EA for treated water storage facility and the recommendations from both the Master Plan and the treated water storage Class EA are now available.

The Public Information Centre No.2 is scheduled as follows:

**Date: June 11<sup>th</sup>, 2024**

**Time: 5:00 p.m. to 7:00 p.m. (Drop-in any time)**

**Location: Arts Centre Hastings, 24 Seymour Street West, Madoc, ON**

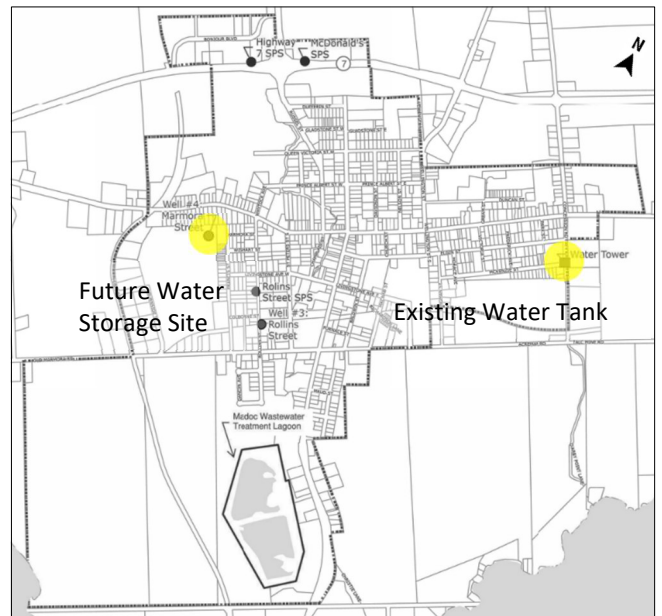
Project information will also be provided on the Municipality's website at [centrehastings.com/our-municipality/water-resources/madoc-water-wastewater-and-stormwater-master-plan/](https://centrehastings.com/our-municipality/water-resources/madoc-water-wastewater-and-stormwater-master-plan/). If you have any questions regarding the study, please contact one of the people listed below. We welcome your feedback.

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Senior Environmental Engineer  
J.L. Richards & Associates Limited  
203-863 Princess Street  
Kingston, ON K7L 5N4  
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This Notice was issued on May 17<sup>th</sup>, 2024.



HASTINGS

*Centre Hastings*

COUNTY

**PUBLIC INFORMATION CENTRE**

# **Water, Wastewater, Stormwater Master Plan**

- ☑ **June 11, 2024**
- ☑ **5:00pm - 7:00pm**  
**(drop in anytime)**
- ☑ **24 Seymour Street West**  
**(Madoc Arts Centre)**

- ☑ **Water Storage**  
**Schedule B Class EA**

The Master Plan is assessing various options to improve the performance and reliability of the water, wastewater, and stormwater infrastructure to ensure they can be relied upon to accommodate future growth.

**Additional info? Visit:**  
[centrehastings.com/masterplan](http://centrehastings.com/masterplan)

HASTINGS

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HASTINGS

*Centre Hastings*

COUNTY

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- ☑ **5:00pm - 7:00pm**  
**(drop in anytime)**
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**(Madoc Arts Centre)**

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**Additional info? Visit:**  
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# Madoc Water, Wastewater and Stormwater Master Plan & Schedule 'B' Class EA for Treated Water Storage

**Public Information Centre #2**

June 11<sup>th</sup>, 2024

**Welcome! Please sign in.**



# The Municipal Class Environmental Assessment Process

## Class EA Process

The *Ontario Environmental Assessment (EA) Act*, R.S.O., 1990 requires that projects corresponding to municipal infrastructure projects, including roads, water, and wastewater projects follow an approved planning process set out in the Municipal Class EA document prepared by the Municipal Engineers Association (MEA).

## Master Plan Process

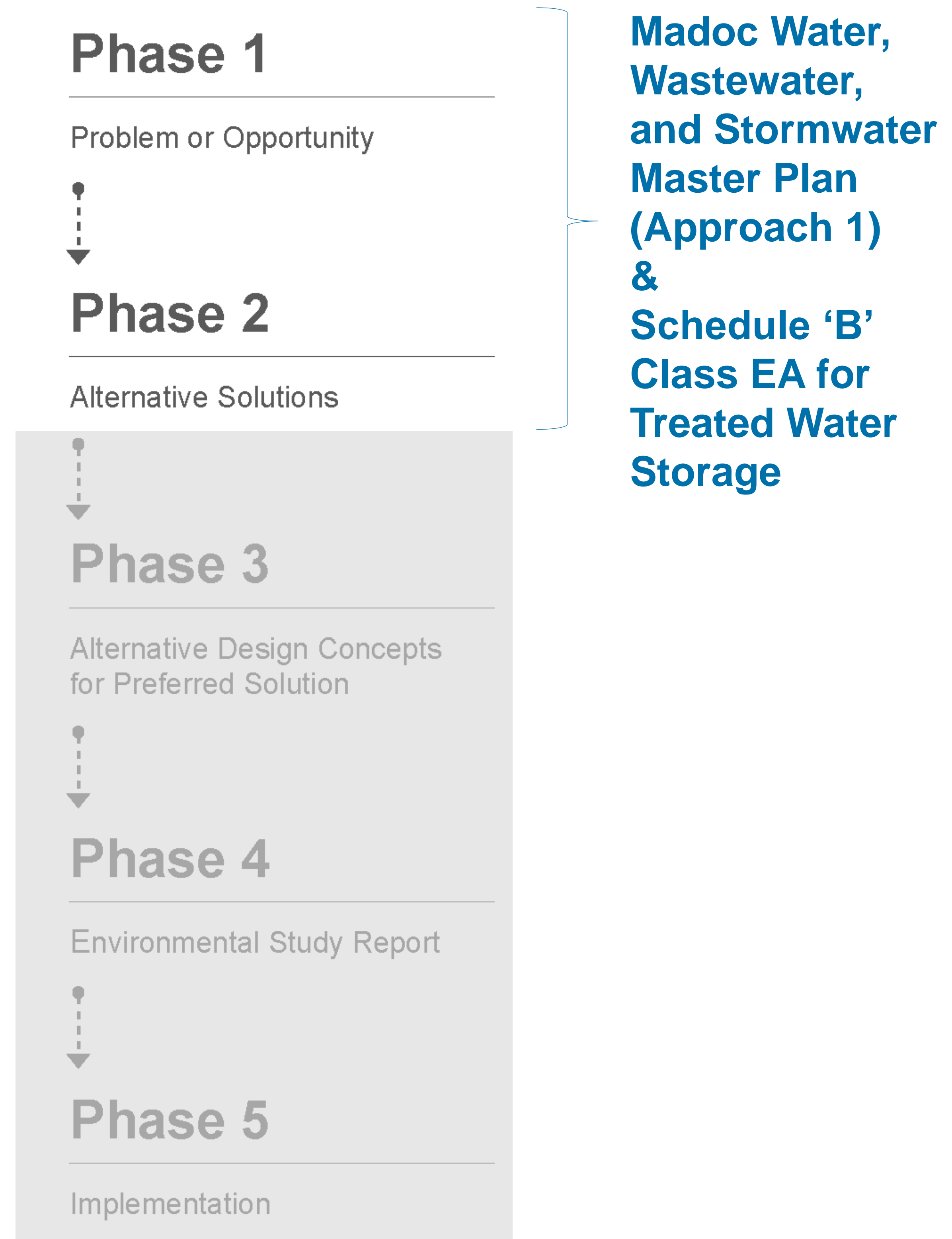
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## Master Plan Approach 1

This approach concludes at the end of Phases 1 and 2. With this approach, the Master Plan is being completed at a broad level of assessment and may require further detailed assessment at the project-specific level.

## Schedule 'B' Municipal Class EA

This assessment is prepared to identify and evaluate feasible alternative solutions to address the deficiency in treated water storage.

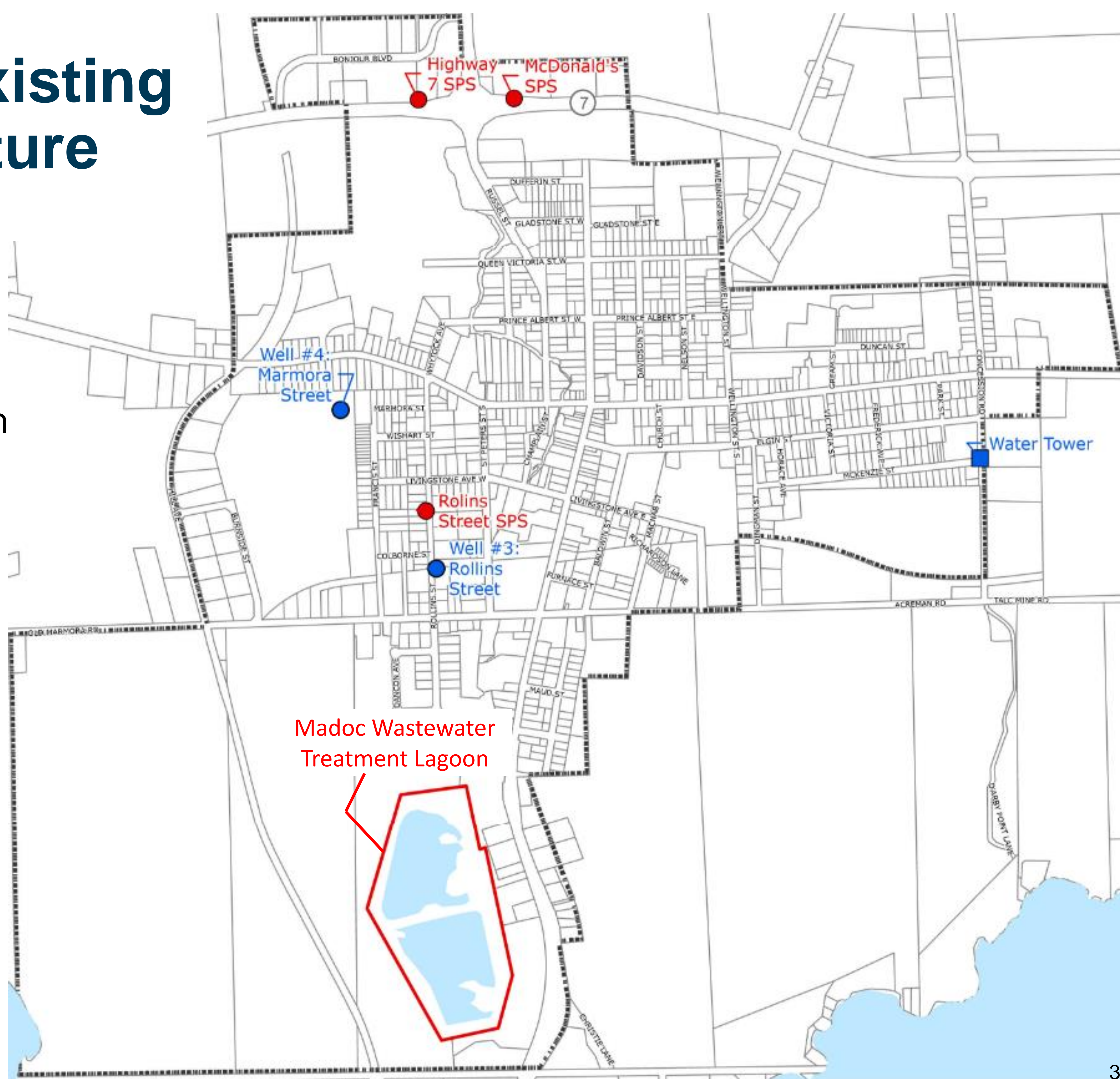




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- Water Tower
- Water Distribution System
- Sanitary Collection System
- Three Sewage Pump Stations (SPS)
- Wastewater Treatment Lagoon
- Stormwater System

The existing serviced population in the Village of Madoc is approximately 1,500.





# Master Plan Phase 2: Identification & Evaluation of Servicing Options



# Objectives of the Madoc Water, Wastewater and Stormwater Master Plan Phase 2

- Model future water distribution, wastewater collection, and stormwater sewer systems for the Master Planning period of 20 years and establish required upgrades.
- Present an evaluation matrix with criteria by which servicing alternatives are evaluated against the natural, social/cultural, technical and financial considerations.
- Identify and evaluate alternative solutions to address treatment, capacity and storage issues.
- Recommend an overall implementation plan with proposed timelines and associated costs each of the planning timeframe.

# Master Plan Methodology and Timeline

## Master Plan Phase 1 – Identify Problem or Opportunity

### Tasks:

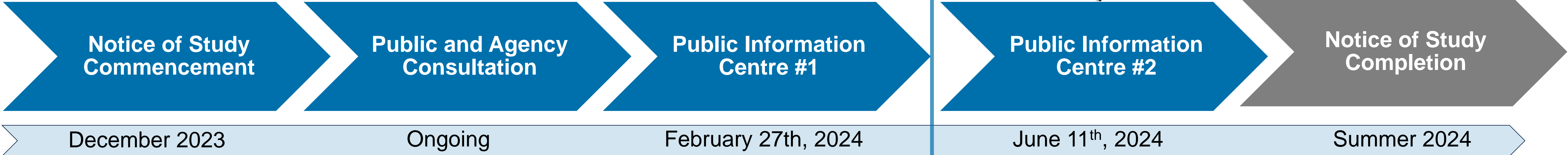
- Review and collect background information.
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- Define level of service for existing conditions.
- Review water supply and wastewater treatment lagoon capacity.
- Model water distribution, sanitary collection, and stormwater.
- Undertake public consultation activities.
- Finalize Master Plan Phase 1 Report.

## Master Plan Phase 2 – Identify and Evaluate Alternative Solutions

### Tasks:

- Identify servicing needs under future growth scenarios.
- Develop alternative servicing solutions.
- Develop an implementation/phasing plan.
- Undertake public consultation activities.
- Finalize Master Plan Phase 2 Report.
- Publish Master Plan Report for 30-day public review.

### Project Timeline





# Overview of Estimated Future Growth

## Residential Developments

Development Timeframe	Additional Units	Estimated Population Increase
Short-Term (0-5 Years; 2024-2029)	155 units	400 people
Mid-Term (5-10 Years; 2029-2034)	341 units	891 people
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## Institutional / Commercial / Industrial Developments

Development Timeframe	Development Type	Estimated Growth
Short-Term (0-5 Years; 2022-2027)	Long Term Care	128 Beds
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Long-Term (10-20 Years; 2034-2044)	Commercial and Typical Industrial	10.3 Hectares
Build-Out (20-30 Years; 2044-2054) <i>(NOT CONSIDERED IN PHASE 2)</i>	Commercial	2.5 Hectares

**Maps of future developments are available**  
Please see a member of the project team.

# Future Servicing Constraints (Updated from Phase 1)

Timeframe	Water Supply and Treatment	Water Storage	Wastewater Lagoon	Storm Water System	Water Distribution	Sanitary Sewer
Short-Term (0-5 Years)	Reach 59% of the existing capacity	Reach 112% of the existing capacity	Reach 104% of the existing capacity	40 pipe segments to be upsized, two outlets redirected flow to an approved outlet, such as Deer Creek	Existing system can support future growth: good pressure for average day flow, good fire flow availability for max day + fire flow, good pressure under peak hour flow. Design ongoing for minimal required watermain upgrade.	27 pipe segments require upgrades
Mid-Term (5-10 Years)	Reach 89% of the existing capacity	Reach 144% of the existing capacity	Reach 146% of the existing capacity	No upgrade required		
Long-Term (10-20 Years)	Reach 152% of the existing capacity	Reach 274% of the existing capacity	Reach 233% of the existing capacity	No upgrade required		One pipe upgrade required

# Evaluation Methodology



# Overall Evaluation Methodology

## Major Criteria

Criteria	Description
Natural Environment Considerations	Natural features, natural heritage areas, areas of natural and significant interest, designated natural areas, watercourses and aquatic habitat.
Climate Change and Resiliency	Effects of climate change (e.g., impact of extreme weather events on water supply and wastewater generation), ability to mitigate climate change effects (e.g., contribution to greenhouse gas emissions, impacts on carbon sinks), ability to adapt to climate change impacts, i.e., resiliency and security of infrastructure.
Social and Cultural Environment Considerations	Proximity of facilities to residential, commercial and institutions, archeological and cultural features, designated heritage features, source water protection areas (i.e., intake protection zones and wellhead protection areas), land-use and planning designations.
Technical Feasibility	Constructability, maintaining or enhancing water/wastewater treatment, reliability and security of distribution/conveyance system, ease of connection to existing infrastructure and operating and maintenance requirements, addresses aging infrastructure, expandability.
Financial Considerations	Capital costs, Operation and Maintenance costs.

## Impact Levels and Color System

Impact Level	Colour	Relative Impact
Strong Positive Impact	Green	Preferred
Minor Impact	Yellow	Less Preferred
Strong Negative Impact	Red	Least Preferred



# Identification & Evaluation of Water Supply and Treatment Options





# Water Supply and Treatment



## Alternative 1 – Status Quo

- Re-designate Well #4 as a duty well
- Provides a sufficient capacity for mid-term (5-10 years).
- It is not sufficient for projected long-term (10-20 years) demand.
- Not recommended.



## Alternative 2 – Increase Water Supply from Existing Well #3 and Well #4

- May be feasible and should be confirmed by a hydrogeological study
- Once confirmed, a Schedule 'C' Class EA will be triggered to evaluate water treatment plant alternatives.
- Recommended to carry forward.



## Alternative 3 – Maintain Water Supply from Existing Well #3 and Well #4 and Supplement with Water from a New Well

- Will be sufficient for projected long-term (10-20 years) water demand.
- A Water Supply Feasibility Study, Hydrogeological Study and a Schedule 'B' Water Supply Class EA are recommended to confirm the location of the new well and level of treatment requirements.
- Recommended to carry forward.



## Alternative 4 – Discontinue Water Supply from Existing Well #3 and Well #4 and Obtain water from Surface Water Source

- Existing aquifer has capacity and extensive work will be required to establish a new intake.
- If in the future, hydrogeological study finds existing aquifer cannot support build-out growth or that the groundwater quality deteriorates, this option may be reconsidered.
- Not recommended.



# Water Supply and Treatment Evaluation Matrix

	Alternative 2 – Increase Water Supply from Existing Well #3 and Well #4	Alternative 3 – Maintain Water Supply from Existing Well #3 and Well #4 and Supplement with Water from a New Well
Natural Environment	Preferred	Less Preferred
Climate Change Resiliency	Less Preferred	Preferred
Social, Cultural and Heritage Environment	Preferred	Preferred
Technical Feasibility	Preferred (Pending Hydrogeological study)	Preferred (Pending Hydrogeological study)
Financial Considerations	Preferred	Less Preferred
Overall Evaluation	<b>Preferred</b> (Pending Hydrogeological study)	<b>Less Preferred</b> (Pending Hydrogeological study)



# Main Drivers of Evaluation



Ability and reliability to support long-term growth



Impacts from and ease of construction



Complexity and requirement for level of treatment



Capital, operation and maintenance costs

# Identification & Evaluation of Wastewater Treatment Options





# Wastewater Treatment



## Alternative 1: Status Quo

- This alternative is not feasible as the anticipated developments within the study area cannot be accommodated by the existing capacity.
- Not recommended.



## Alternative 2 – Maintain lagoon-based treatment and add third lagoon cell

- Significant impact to the natural environment.
- Meanwhile this alternative alone will not address the potential increase in level of treatment due to capacity expansion.
- Not recommended.



## Alternative 3 – Add-on treatment system

- This alternative improves the effluent quality and addresses future treatment requirements.
- This alternative alone does not address storage volume constraint. Alternative 3 will need be combined with a discharge alternative.
- Recommended to carry forward.



## Alternative 4 – Convert to Mechanical Treatment Plant

- It provides the level of treatment requirement and is able to provide treatment beyond long-term growth scenario.
- Extensive design and construction and requires continuous discharge.
- Recommended to carry forward.



# Wastewater Discharge



## Alternative 5 – Extend Discharge Window

- Addresses the storage volume constraints for long-term.
- This alternative alone will not address treatment constraints and should be combined with another treatment alternative.
- Recommended to carry forward.



## Alternative 6 – Direct and Continuous Discharge to Moira Lake

- Recommended to potentially further increase the discharge volume.
- This alternative alone will not address treatment constraints and should be combined with another treatment alternative.
- Recommended to carry forward.

## Identification of Wastewater Servicing Options

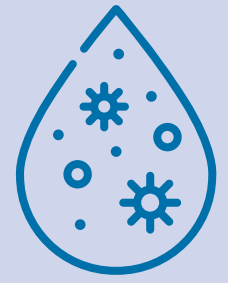
- Servicing Option 1: Extend Discharge Window
- Servicing Option 2: Extend Discharge Window and Implement Add-On Treatment System
- Servicing Option 3: Extend Discharge Window to Continuous Discharge, Implement Mechanical Treatment Plant, Direct Discharge to Moira Lake



# Wastewater Servicing Evaluation Matrix

	Servicing Option 1 Extend Discharge Window	Servicing Option 2 Extend Discharge Window + Add-On Treatment System	Servicing Option 3 Extend to Continuous Discharge + Direct Discharge to Moira Lake + Mechanical Treatment Plant
Natural Environment	Least Preferred	Preferred	Less Preferred
Climate Change Resiliency	Least Preferred	Preferred	Less Preferred
Social, Cultural and Heritage Environment	Less Preferred	Preferred	Least Preferred
Technical Feasibility	Least Preferred	Preferred	Less Preferred
Financial Considerations	Preferred	Less Preferred	Least Preferred
Overall Evaluation	<b>Least Preferred</b>	<b>Preferred</b>	<b>Less Preferred</b>

# Main Drivers of Evaluation



Impacts to natural environment and receiver stream



Ability to support long-term growth



Impacts from and ease of construction



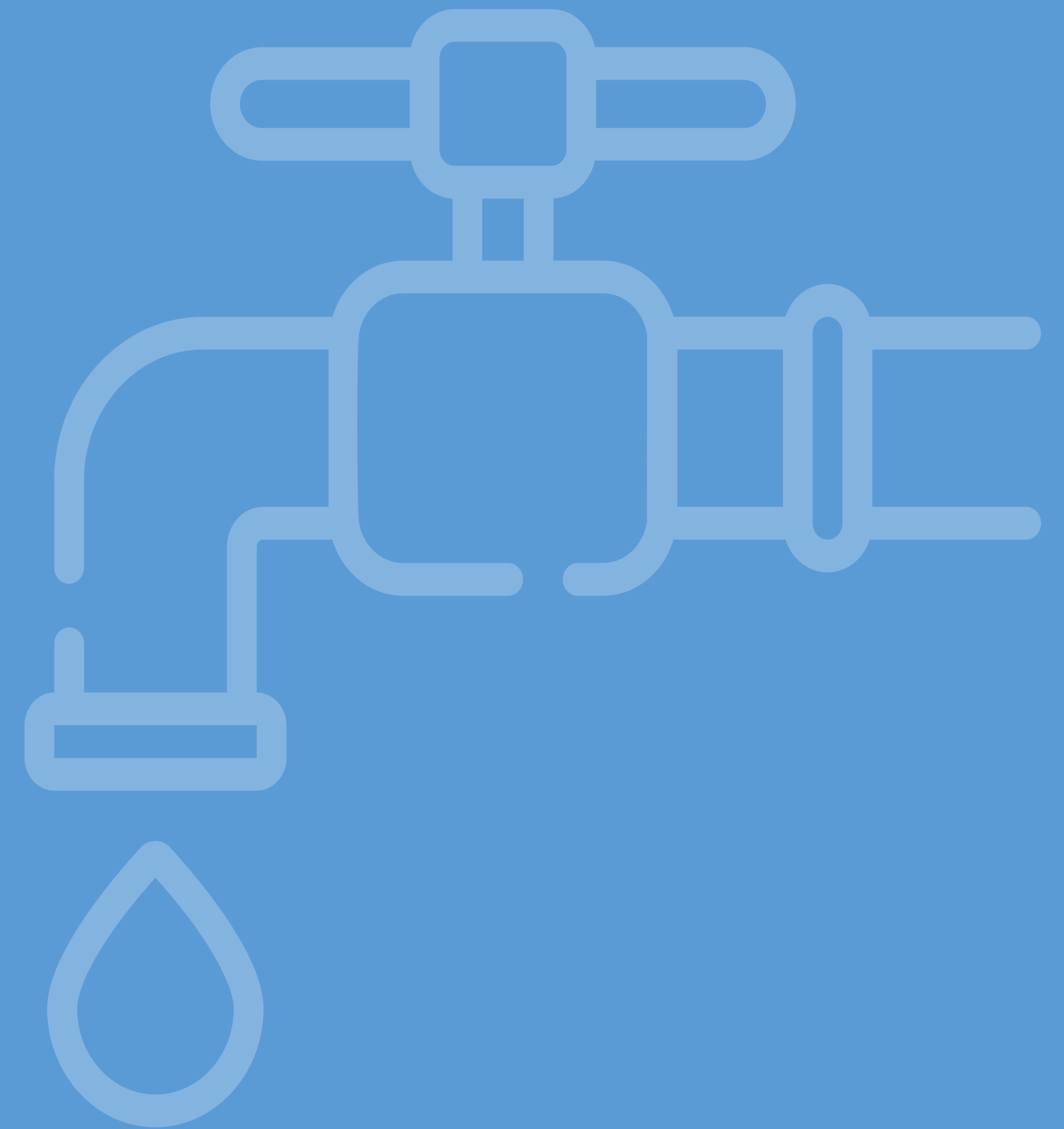
Complexity and requirement for level of treatment



Capital, operation and maintenance costs  
(Opinion of Probable Construction Cost \$10,000,000)

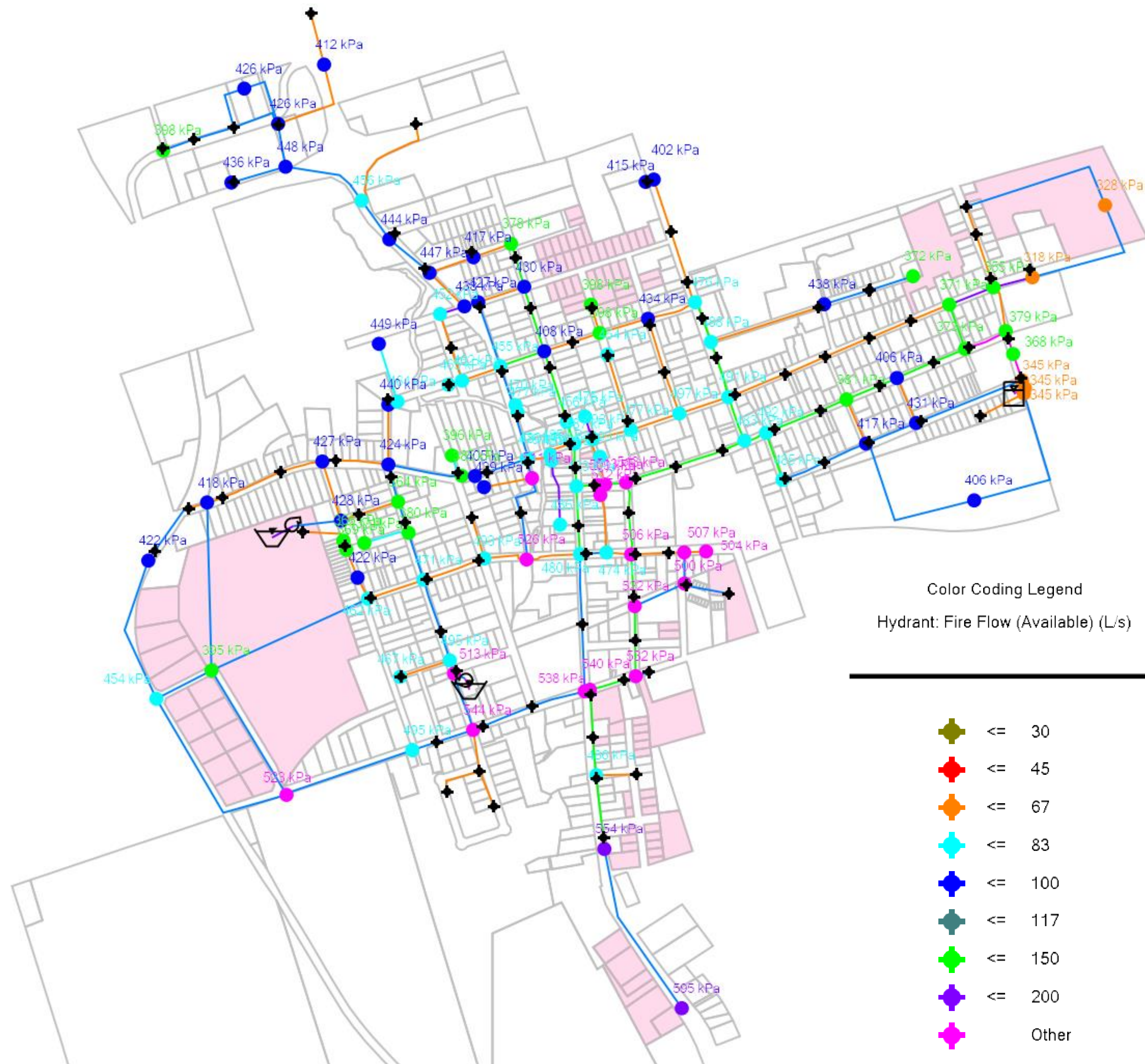


# Water Distribution, Sanitary and Stormwater Servicing Solution





# Future Water Distribution System



**Water Distribution Flows under Long-Term (10-20 yrs) Conditions - Maximum Day Demand + Fire Flow**

## Water Distribution WaterCAD® Modelling Results:

- The long-term scenario (10-20 years) is the only future scenario for which water distribution system upgrades are recommended.

## Recommendations:

- Upgrade watermain along St. Lawrence Street East (Design Ongoing) - \$410,000



# Recommendations Sanitary System

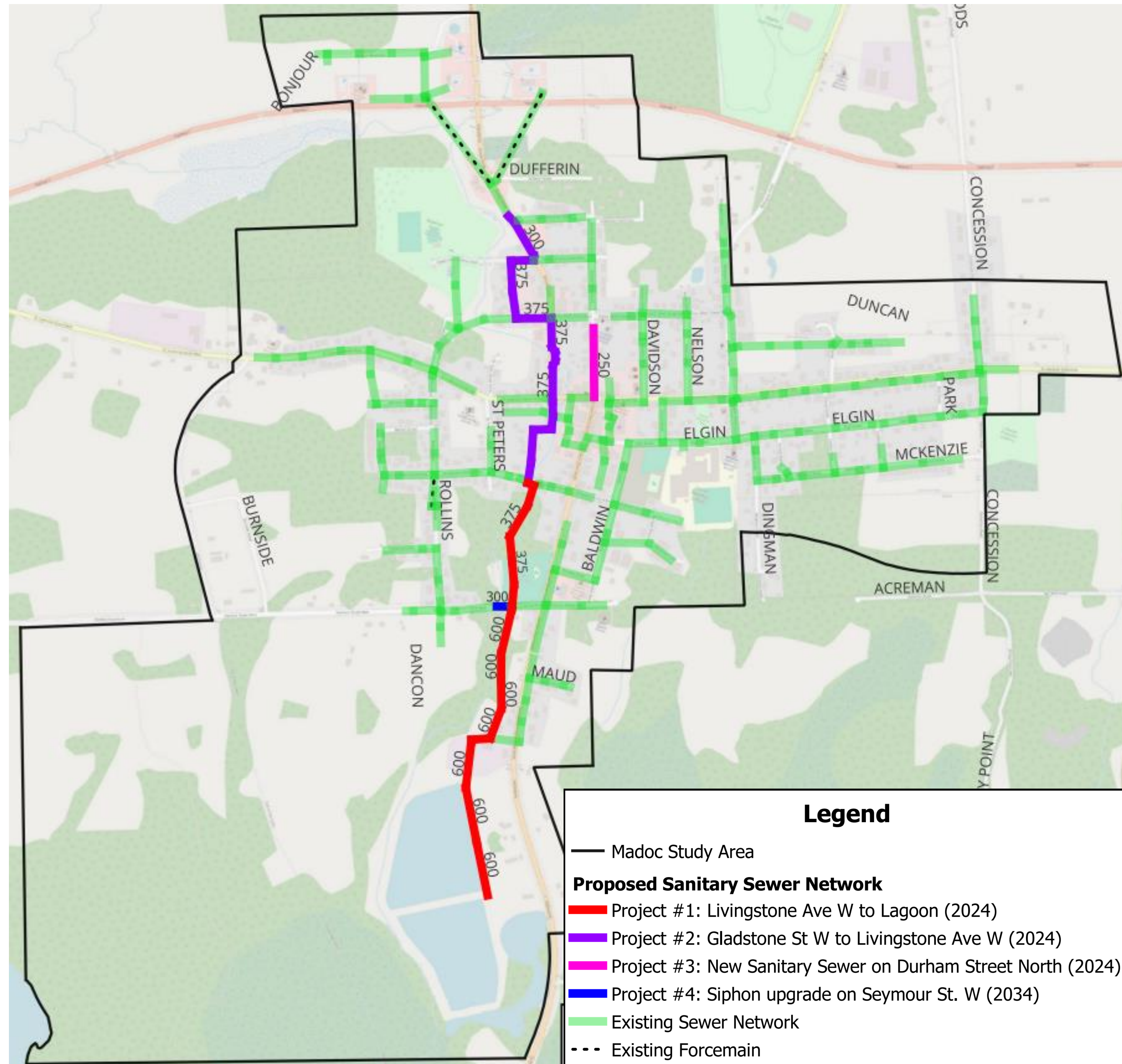
## Short-term (0-5 years):

- Project 1: Upgrade sanitary sewer sections along Livingstone Ave. W to Seymour St. W (375mm) and Seymour St. W to Lagoon (600mm) - \$3,300,000
- Project 2: Upgrade sanitary sewer sections along Highway 62 from Gladstone St. W to Livingstone Ave. W (375mm) - \$3,000,000
- Project 3: Install a new 250mm sewer on Durham St. N and decommission existing sanitary sewers on private properties - \$400,000

**Mid-term (5-10 years):** None required

## Long-term (10-20 years):

- Project 4: Upgrade Siphon on Seymour St. W. - \$500,000





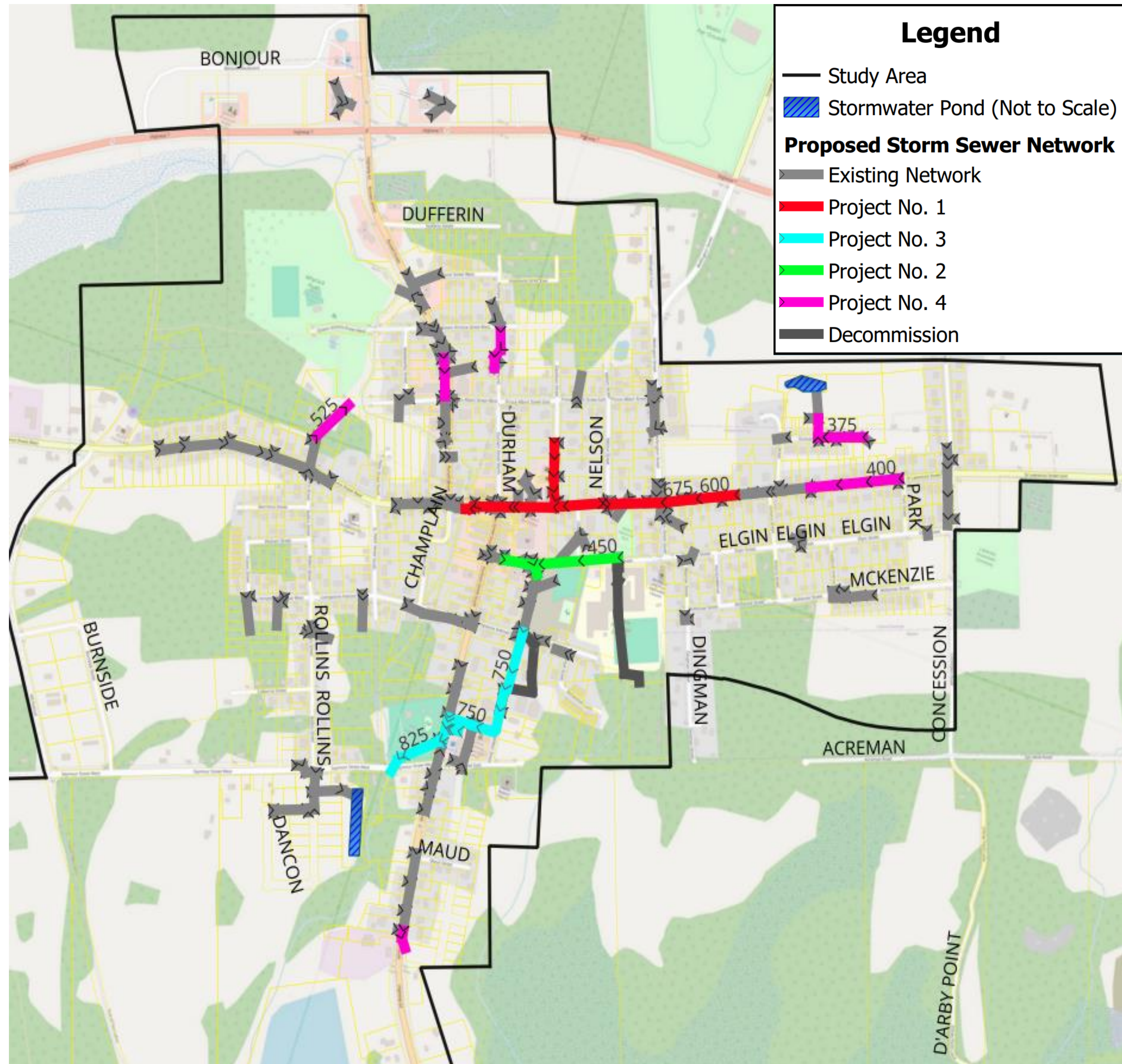
# Recommendations Stormwater System

## Short-term (0-5 years):

- Project 1: Connect St. Lawrence St. E sewer to St. Lawrence St. W sewer and upsize St Lawrence St. E Storm sewer from Wellington St. to Creek outlet - \$3,200,000
- Project 2: Decommission existing storm sewer under Madoc Public School. Connect existing St. Lawrence St. E Sewer to existing sewer on Elgin St. and Baldwin St. - \$1,300,000
- Project 3: Connect Livingstone Ave. to Durham St. S. - \$2,100,000
- Project 4: Upsize various local surcharged pipes - \$2,400,000

**Mid-term (5-10 years):** None required.

**Long-term (10-20 years):** None required.





# Proposed Implementation Plan

Proposed Projects	Short-Term (Initiate within 0-5 Years)	Mid-Term (Initiate within 5-10 Years)	Long-Term (Initiate within 10+ Years)
Water Supply, Treatment and Storage	\$7,500,000	\$400,000	\$12,900,000
Water Distribution	\$410,000	0	0
Wastewater Collection	\$6,700,000	0	\$500,000
Wastewater Treatment System	\$10,200,000	0	0
Stormwater System	\$9,000,000	0	0

**Detailed list of projects are available**  
Please see a member of the project team.



# Climate Change Impacts and Resiliency

It is recommended that the Municipality consider the following aspects to mitigate climate change risks and adapt to potential future climate change events:

- Implement backup power systems at Well #3 and #4; and implement backup power systems at sewage pump stations and wastewater treatment lagoon;
- Consider upsizing sanitary and stormwater infrastructure to accommodate increased wet weather flows and Inflow & Infiltration (I&I) ;
- Undertake an I&I study and flow monitoring program to identify areas of high I&I;
- Disconnect roof leaders, combine storm water networks and combine sanitary sewer networks, and;
- Promote water conservations during summer and/or drought conditions.





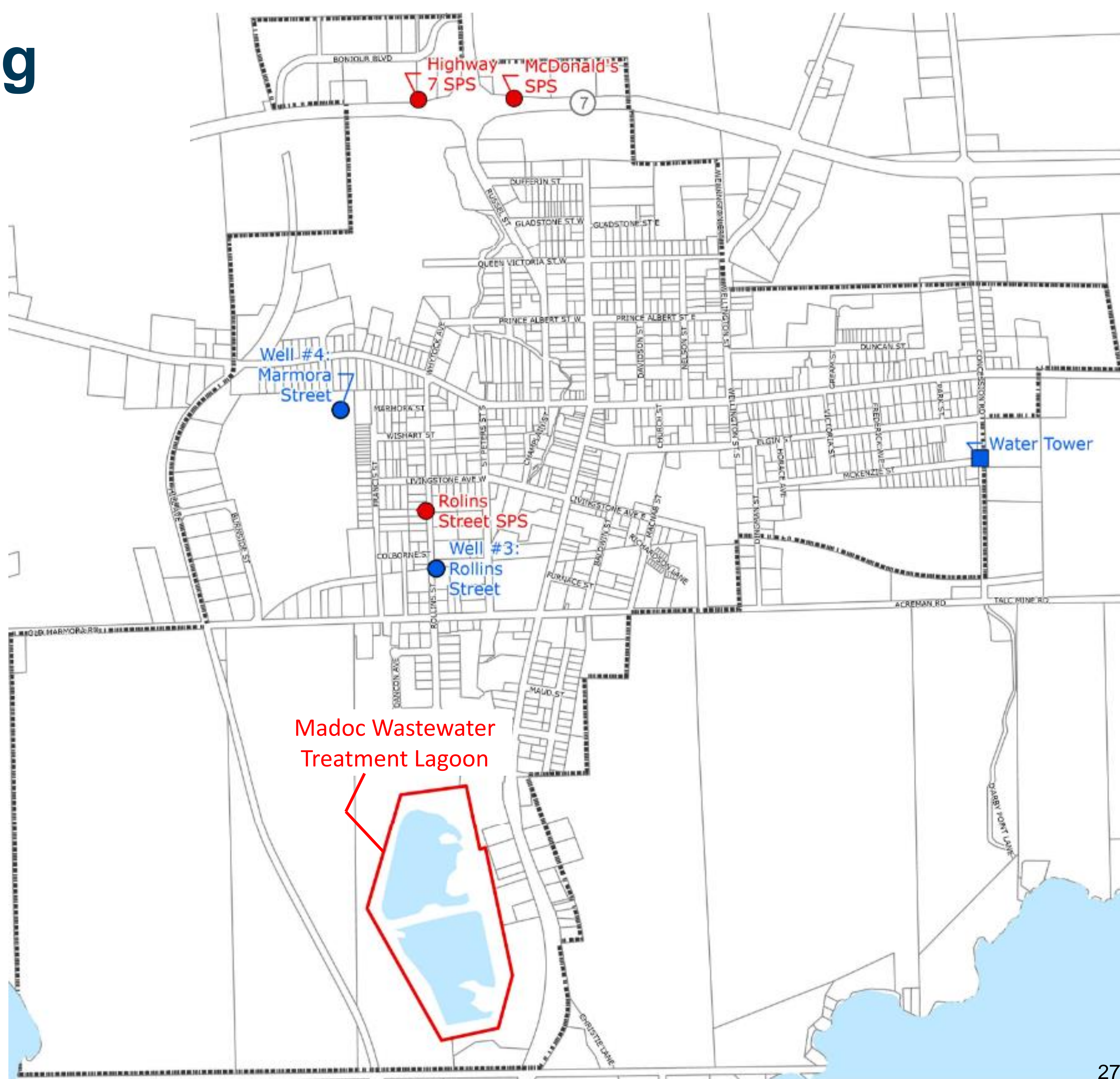
# Schedule 'B' Class EA for Treated Water Storage





# Treated Drinking Water Storage

- The preferred type and location for new water storage needs to be identified in this Schedule B Class EA continued from Master Plan work.
- Existing elevated water storage tank is located at 119 McKenzie Street, originally constructed in 1981.
- Water storage deficiency is expected in short-term (2024-2029).
- An inspection in 2019 revealed the tank is in poor condition.
- Hydraulic water model from Master Plan recommends keeping existing hydraulic grade line to meet future long-term demand.

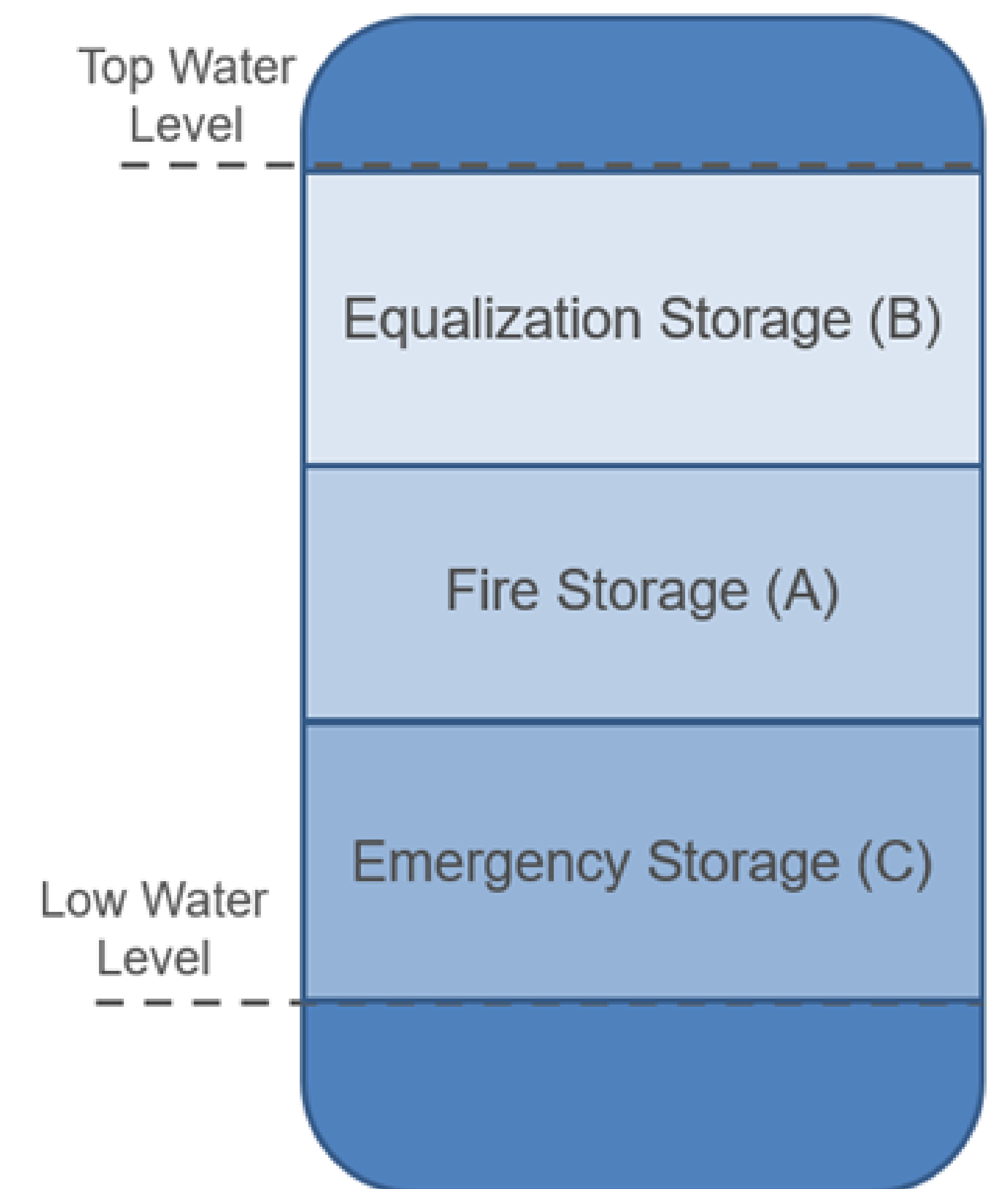




# Water Storage Requirements

According to the **2008 Ministry of the Environment, Conservation and Parks (MECP) Design Guidelines for Drinking-Water Systems**, the total treated water storage within a system should be at least the total of the required **fire (A)**, **equalization (B)**, and **emergency (C) storage allowances**.

Parameter	Existing (2023)	Short Term (2024-2029)	Mid-Term (2029-2034)	Long-Term (2034-2044)
Equivalent Population	1,477	2,474	3,724	6,375
Fire Flow (L/s)	78	102	120	162
Duration (Hours)	2	2	2	3
A – Fire Storage (m <sup>3</sup> )	564	735	862	1,748
B – Equalization Storage (m <sup>3</sup> )	231	386	581	995
C – Emergency Storage (m <sup>3</sup> )	199	280	361	686
Total Storage Requirement (A+B+C) (m <sup>3</sup> )	993	1,401	1,804	3,428
Existing Useable Storage (m <sup>3</sup> )	1,250	1,250	1,250	1,250
<b>Deficit (m<sup>3</sup>)</b>	<b>n/a</b>	<b>151</b>	<b>554</b>	<b>2,178</b>





# Problem/Opportunity Statement

**The following Problem/Opportunity Statement has been developed for this Schedule 'B' Class EA :**

Madoc is serviced by communal drinking water system consisting of Well #3 and Well #4, a water tower and water distribution network. The existing water tower is in need of repair and rehabilitation. Treated drinking water storage will not be sufficient to support projected growth within the Madoc servicing area for the next 20 years and beyond.

There is an opportunity through the Class EA process to ensure that Madoc has a treated drinking water storage solution which will address the existing and future conditions on the drinking water storage and distribution system.





# Approach



## Approach 1 – Do Nothing

- Recommended to carry forward as a baseline option.



## Approach 2 – Decommission Existing Elevated Storage and Build New Storage

- Water model suggests the existing tower's ability to continue to maintain hydraulic grade line for long-term
- New storage will replace existing tower with an increased useable volume of 3,428 m<sup>3</sup>.
- Recommended to carry forward.



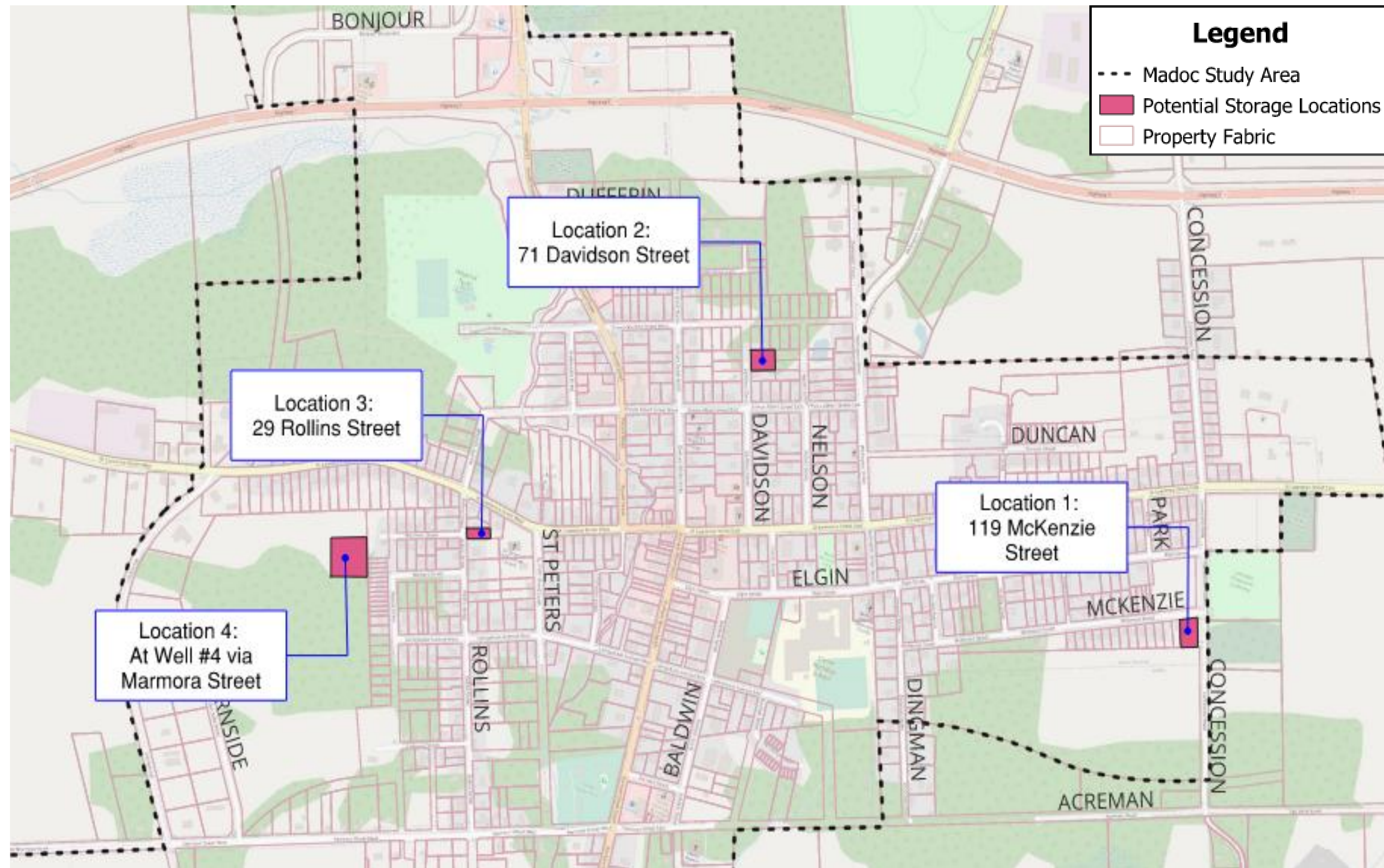
## Approach 3 – Maintain Existing Elevated Storage and Build New Storage to Supplement

- Condition of the existing elevated tower is poor.
- Significant cost to rehabilitate the tower.
- Not recommended.



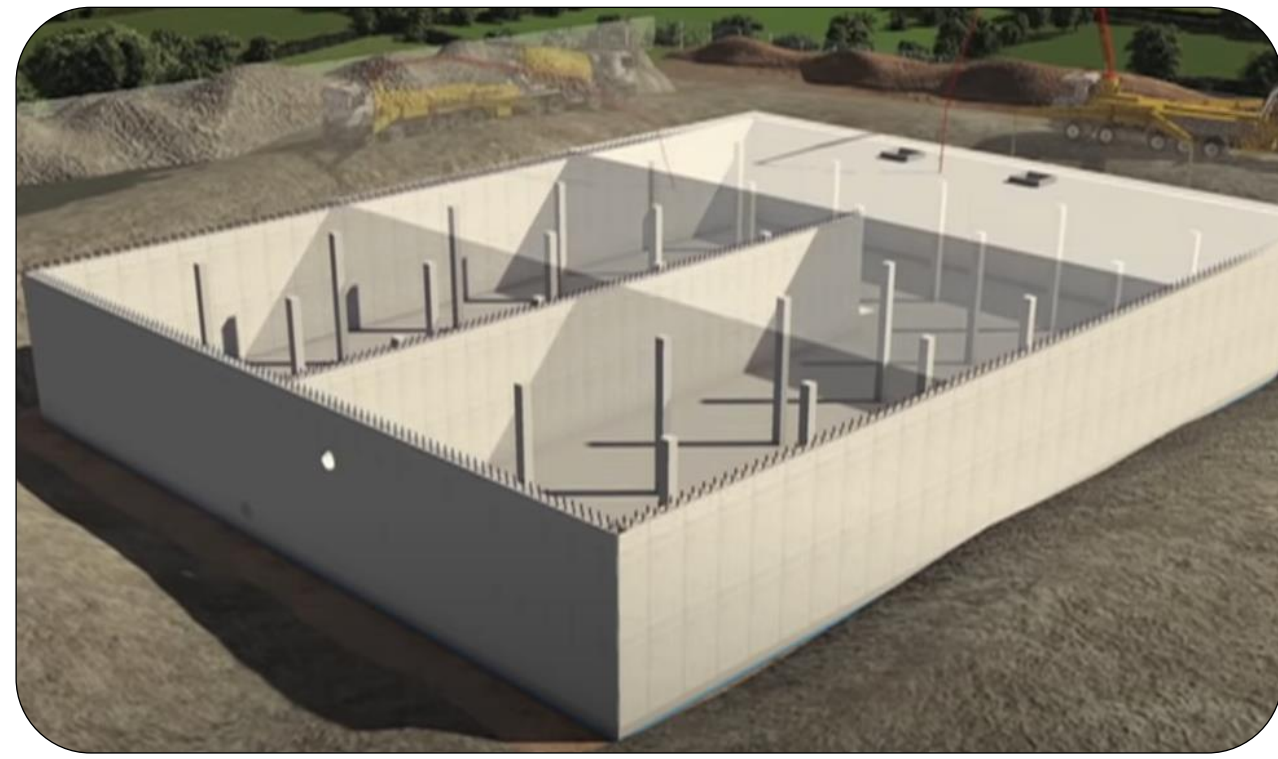
# Potential Storage Locations

- Location 1:  Recommended to carry forward.
- Location 2:  Recommended to carry forward.
- Location 3: does not have adequate space for a storage solution.  Not recommended.
- Location 4:  Recommended to carry forward.





# Water Storage Configurations



## Configuration 1: Below Grade Reservoir and Pumping Station

- A typical below-grade reservoir is constructed of reinforced concrete and covered with earth and vegetation.
- A pumping station is required to boost the pressure.
- Highest capital and life cycle costs among the four configurations.
- Not recommended



## Configuration 2: At-Grade Reservoir and Pumping Station

- A typical at-grade reservoir is constructed of glass-fused-to-steel.
- Slightly lower capital and life cycle costs compared to a below-grade reservoir and pumping station; more complex pumping system infrastructure compared to a below-grade reservoir resulting in increased operating and maintenance costs.
- Recommended to carry forward.



## Configuration 3: New Elevated Storage Tank

- Typically, coated steel tanks located at the top of a pedestal.
- The water level in the elevated tank sets the pressure in the water distribution system.
- The elevated composite tank will have significant lower cost than a below- or at-grade reservoir and pumping station. However, the cost of a composite elevated tank is typically higher than a standpipe.
- Not recommended



## Configuration 4: Standpipe

- Ground storage tanks typically constructed of glass-fused-to-steel to a height that will provide adequate system pressure in the operating range.
- Standpipes are often used in small systems where less volume is needed, or in situations where the site has a high ground elevation relative to the system pressure.
- Recommended to carry forward.



# Identification of Water Storage Alternative Solutions

- Alternative #1 – Do Nothing
- Alternative #2 – Decommission Existing Elevated Storage; Build a New Standpipe (1,800 m<sup>3</sup> Usable Volume) at McKenzie Street and Supplement Storage with At-Grade Reservoir (1,620 m<sup>3</sup>) and Booster Station at Well #4
- Alternative #3 – Decommission Existing Elevated Storage; Build a New Standpipe (2,900 m<sup>3</sup> Usable Volume) at McKenzie Street and Supplement Storage with At-Grade Reservoir (600 m<sup>3</sup>) and Booster Station at Well #4
- Alternative #4 - Decommission Existing Elevated Storage; Build a New Standpipe (1,800 m<sup>3</sup> of Useable Volume) at Davidson Street and Supplement Storage with At-Grade Reservoir (1,620 m<sup>3</sup>) and Booster Station at Well #4
- Consider phased-approach to increase storage capacity over the planning period



# Evaluation Matrix

Option	#1	#2	#3	#4
Phase 1	Do nothing/Status Quo	Build New Standpipe with 1800 m <sup>3</sup> of Useable Volume at 119 McKenzie Street (Location 1); Decommission Existing Tower	Build New Standpipe with 2900 m <sup>3</sup> of Useable Volume at 119 McKenzie Street (Location 1); Decommission Existing Tower	Build New Standpipe with 1800 m <sup>3</sup> of Useable Volume at 71 Davidson Street (Location 2); Decommission Existing Tower
Phase 2		Add 1620 m <sup>3</sup> At-Grade Reservoir and Booster Pump Station at Well #4 (Location 4)	Add 600 m <sup>3</sup> At-Grade Reservoir and Booster Pump Station at Well #4 (Location 4)	Add 1620 m <sup>3</sup> At-Grade Reservoir and Booster Pump Station at Well #4 (Location 4)
Natural Environment	Preferred	Less Preferred	Less Preferred	Least Preferred
Climate Change Resiliency	Least Preferred	Preferred	Preferred	Preferred
Social, Cultural and Heritage Environment	Least Preferred	Preferred	Preferred	Less Preferred
Technical Feasibility	Least Preferred	Preferred	Less Preferred	Least Preferred
Financial Considerations	Less Preferred	Preferred	Less Preferred	Least Preferred
Overall Evaluation	<b>Least Preferred</b>	<b>Preferred</b>	<b>Less Preferred</b>	<b>Least Preferred</b>



# Main Drivers of Evaluation



Ability to support long-term growth



Location proximity to large diameter watermain



Phased approach aligns with the growth rate



Capital, operation and maintenance costs





# Preferred Solution

The preferred solution is Alternative #2:

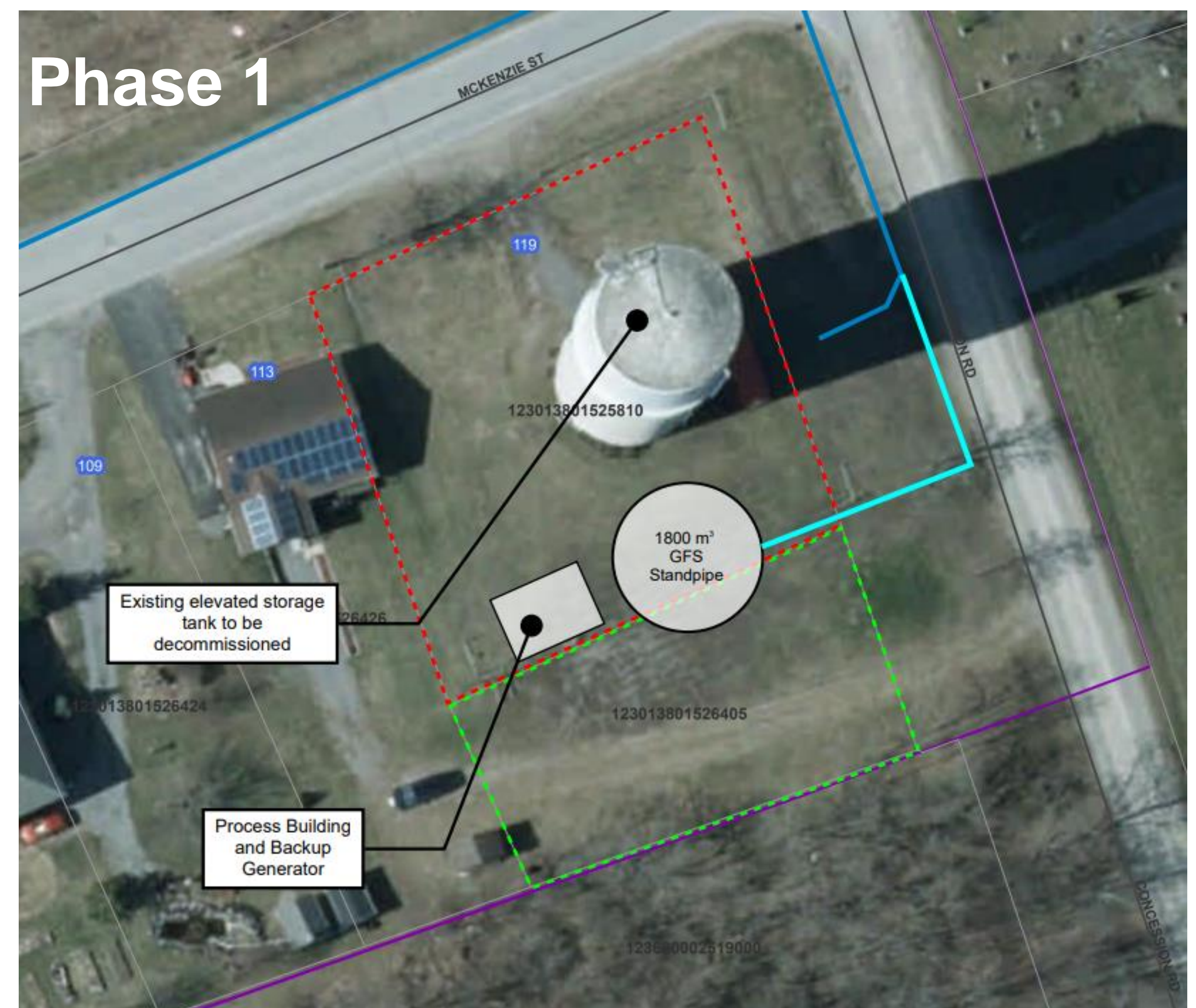
- Decommission Existing Elevated Storage
- Build a New Standpipe at McKenzie Street (land acquisition required)
- Supplement Storage with At-Grade Reservoir and Booster Station at Well #4

The storage solution can be built in two phases:

- Phase 1: New Standpipe at McKenzie Street
- Phase 2: New At-grade Reservoir and Booster Station at Well #4

Opinion of Probable Costs (+/- 30%):

- Phase 1: \$7,300,000
- Phase 2: \$4,400,000





# Next Steps

## Water, Wastewater and Storm Master Plan

Collect and address comments from Public Information Centre #2.

Finalize recommendations of the Phase 2 Master Plan.

Issue Notice of Master Plan.

Place Master Plan on public record for 30 days (Summer 2024).

The Municipality may choose to proceed with further studies and implementation as recommended by the Master Plan.

## Schedule 'B' Treated Water Storage Class EA

Collect and address comments from Public Information Centre #2.

Finalize recommendations of the Schedule 'B' Class EA.

Issue Notice of Completion.

Schedule 'B' Class EA on public record for 30 days (Summer 2024).

The Municipality may choose to proceed with design and implementation as recommended by Schedule 'B' Class EA.



# How to Participate

- Send written comments to the project contacts at Ontario Clean Water Agency and J.L. Richards listed below. Please respond by June 25<sup>th</sup>, 2024.

## Allison Mokracki, P.Eng.

Water and Wastewater Engineer  
Ontario Clean Water Agency  
Phone: 905-491-3048  
Email: [amokracki@ocwa.com](mailto:amokracki@ocwa.com)

## Susan Jingmiao Shi, P.Eng., M.Eng.

Associate, Senior Environmental Engineer  
J.L. Richards & Associates Limited  
Phone: 343-302-5406  
Email: [sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)

- Visit the Municipality website at <https://www.centrehastings.com/our-municipality/water-resources/madoc-water-wastewater-and-stormwater-master-plan/> for more updates.





# Madoc Water, Wastewater, and Stormwater Master Plan and Schedule 'B' Municipal Class Environmental Assessment for Treated Water Storage Facility

## Public Information Centre No.2 Comment Sheet

The Municipality of Centre Hastings is interested in receiving the community's comments, questions, and concerns regarding the existing conditions of water, wastewater, and stormwater infrastructure for Madoc. Please take a few minutes to fill out this brief comment sheet. All comments will be carefully considered while completing the Master Plan and Schedule 'B' EA for Water Storage Facility.

- 1. This study is following the requirements of the Municipal Class Environmental Assessment process for an Approach 1 Master Plan and Schedule 'B' EA for Treated Water Storage Facility. *Do you have any questions, comments, or concerns about the decision-making and public consultation process that are being followed to-date?*

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- 2. The preferred solutions of water, wastewater and storm water upgrades was determined based on the ability to support long-term growth of demands. *Do you have any questions, comments, or concerns about the preferred treated water storage facility solution?*

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- 3. The preferred solution of a new water storage facility including a new standpipe and a new at-grade reservoir was determined based on the ability to support long-term growth of demands. *Do you have any questions, comments, or concerns about the preferred treated water storage facility solution?*

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(Over to the back)





# Madoc Water, Wastewater, and Stormwater Master Plan and Schedule 'B' Municipal Class Environmental Assessment for Treated Water Storage Facility

## Public Information Centre No.2 Comment Sheet

- 4. There are several steps to be undertaken to complete the Master Plan and Schedule 'B' EA. *Do you have any comments or questions regarding how this study will be completed?*

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- 5. Do you have any additional comments?

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**Thank you for taking the time to provide your comments. Comment sheets may be returned to any of the presenters, or can be mailed, or emailed to the individuals below. Please return comment sheets by June 25<sup>th</sup>, 2024.**

Susan Jingmiao Shi, P.Eng., M.Eng.  
Associate, Senior Environmental Engineer  
J.L. Richards & Associates Limited  
203 – 863 Princess Street  
Kingston, ON, K7L 5N4  
sshij@jlrichards.ca  
Phone: 343-302-5406

Allison Mokracki, P.Eng.  
Water and Wastewater Engineer  
Ontario Clean Water Agency  
2085 Hurontario Street, Suite 500  
Mississauga, ON L5A 4G1  
amokracki@ocwa.com  
Phone: 905-491-3048

Visit the Municipality website at [www.centrehastings.com](http://www.centrehastings.com) and the project website at <https://www.centrehastings.com/masterplan> for more updates.



# PIC #2 Sign in Sheet

## Madoc Water, Wastewater and Stormwater Master Plan

Name	Postal Code
Dunlah	K0K 2K0
Stanbra	K0K 2K0
Judy Brant	K0K 2K0
Michael Gery	K0K 2K0
Birgit Brandt	K0K 2K0
Bob Patterson	K0K 2K0
Kevin McLaughlin	K0K 2K0
Eric Sandford	K0K 2K0
Tom Deline	K0K 2K0
Jan Bruce	K0K 2K0



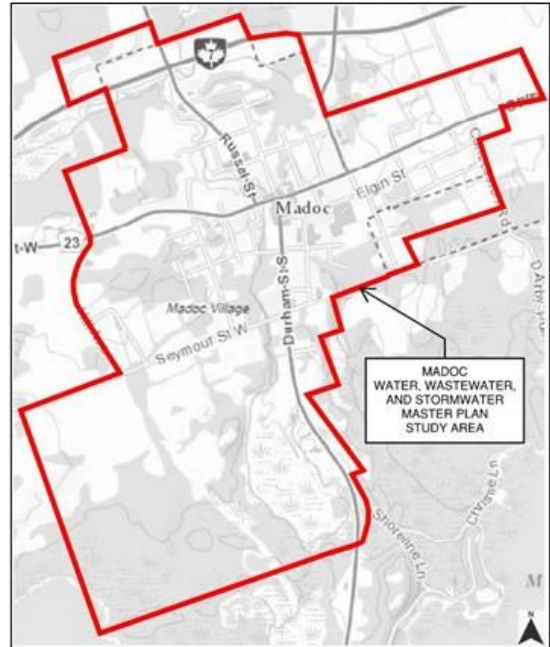
# Notice of Master Plan

## Municipality of Centre Hastings Madoc Water, Wastewater and Stormwater Master Plan

The Municipality of Centre Hastings has completed a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater and Stormwater Master Plan. The Master Plan study assessed various options to improve the performance and reliability of the water, wastewater and stormwater infrastructure to ensure they can be relied upon to accommodate current and future flows generated within the urban boundary of Madoc.

Based on the study findings, input from technical agencies and the public, the Master Plan is now complete. The preferred alternatives include drinking water storage expansion; watermain, storm sewer, and sanitary sewer upgrades, and additional studies to identify viable drinking water supply sources and Wastewater Treatment System expansion. The recommended projects are presented in Section 4 of the Master Plan report which is available for review at the Municipality's website:

<https://centrehastings.com/our-municipality/water-resources/madoc-water-wastewater-and-stormwater-master-plan/>



By this notice, the Master Plan is being placed on public record for a 30-day review period in accordance with the requirements of the Municipal Class EA. Interested persons may provide written comments to the project team by **September 13<sup>th</sup>, 2024**. All comments and concerns should be sent directly to:

Susan Shi, P.Eng.  
Senior Environmental Engineer  
J.L. Richards & Associates Limited  
203-863 Princess Street  
Kingston, ON K7L 5N4  
[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)

Allison Mokracki, P.Eng.  
Water and Wastewater Engineer  
Ontario Clean Water Agency  
2085 Hurontario Street, 5<sup>th</sup> floor  
Mississauga, ON L5A 4G1  
[amokracki@ocwa.com](mailto:amokracki@ocwa.com)

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential.

If there is no request received by **September 13<sup>th</sup>, 2024**, the Master Plan is deemed complete, and the Municipality may then proceed with implementing the recommendations.

This Notice was originally issued on August 14<sup>th</sup>, 2024.



## Regine Climaco

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**From:** Susan Jingmiao Shi  
**Sent:** December 6, 2023 2:31 PM  
**To:** Joe Kaehler; Regine Climaco  
**Cc:** JCasal@ocwa.com  
**Subject:** RE: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

Hello Joe,

Thanks for reaching out.

We are in the initial stages of the Master Planning exercise and will reach out once more information becomes available.

Our next point of contact will happen at the end of Class EA Phase 1 once we define the existing conditions and servicing constraints for water, wastewater and storm. There is an opportunity for you to attend an in-person Public Information Centre to discuss your organization's specific concerns.

Regards,

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**From:** Joe Kaehler <jkaehler@hotmail.co.uk>  
**Sent:** Wednesday, December 6, 2023 11:15 AM  
**To:** Regine Climaco <rclimaco@jlrichards.ca>  
**Cc:** Susan Jingmiao Shi <sshi@jlrichards.ca>  
**Subject:** Re: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

**[CAUTION]** This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

As President of the Moria Lake Property Owners Association (MLPOA).

There is always interest in obtaining information on the wastewater/storm water impact to our 200+ members on Moria Lake.

Moria lake is just south of your designated area of planning.

The area you are investigating is a main tributary to Moria lake thus a potential source of pollutants from Madoc village.

We would like to receive all findings, and work with your team to implement best practices.

Kindest regards,

Joe Kaehler  
MLPOA President  
393 Mile Point Lane  
Madoc Ontario K0K 2K0



613-827-8690

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**From:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>

**Sent:** December 4, 2023 2:40 PM

**To:** [jkaehler@hotmail.co.uk](mailto:jkaehler@hotmail.co.uk) <[jkaehler@hotmail.co.uk](mailto:jkaehler@hotmail.co.uk)>

**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>

**Subject:** Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

Hello,

The Municipality of Centre Hastings has retained J.L. Richards & Associates Limited to initiate a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater, and Stormwater Master Plan for Madoc.

The attached Notice of Study Commencement is being sent to agencies and organizations that may have an interest in this study.

Comments on this study should be sent to the project team by email or mail as provided in the Notice of Commencement.

Thank you,

**Regine Climaco, EIT**  
Civil Engineering Intern

J.L. Richards & Associates Limited  
203 - 863 Princess Street, Kingston, ON K7L 5N4  
Direct: [343-306-0065](tel:343-306-0065)





## Regine Climaco

---

**From:** Joe Kaehler <jkaehler@hotmail.co.uk>  
**Sent:** December 6, 2023 11:15 AM  
**To:** Regine Climaco  
**Cc:** Susan Jingmiao Shi  
**Subject:** Re: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

**[CAUTION]** This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

As President of the Moria Lake Property Owners Association (MLPOA).  
There is always interest in obtaining information on the wastewater/storm water impact to our 200+ members on Moria Lake.

Moria lake is just south of your designated area of planning.  
The area you are investigating is a main tributary to Moria lake thus a potential source of pollutants from Madoc village.

We would like to receive all findings, and work with your team to implement best practices.

Kindest regards,

Joe Kaehler  
MLPOA President  
393 Mile Point Lane  
Madoc Ontario K0K 2K0

613-827-8690

---

**From:** Regine Climaco <rclimaco@jlrichards.ca>  
**Sent:** December 4, 2023 2:40 PM  
**To:** jkaehler@hotmail.co.uk <jkaehler@hotmail.co.uk>  
**Cc:** Susan Jingmiao Shi <sshi@jlrichards.ca>  
**Subject:** Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

Hello,

The Municipality of Centre Hastings has retained J.L. Richards & Associates Limited to initiate a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater, and Stormwater Master Plan for Madoc.

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Thank you,

**Regine Climaco**, EIT  
Civil Engineering Intern

J.L. Richards & Associates Limited  
203 - 863 Princess Street, Kingston, ON K7L 5N4  
Direct: [343-306-0065](tel:343-306-0065)





## Regine Climaco

---

**From:** Crowley, Katie (MTCS) <Katie.Crowley@ontario.ca>  
**Sent:** December 5, 2023 9:38 AM  
**To:** Regine Climaco  
**Subject:** FW: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

**[CAUTION]** This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hi Regine,  
Nice to e-meet you.  
My name is Katie Crowley, I am the Tourism Advisor with the RTO8/9 areas.  
James sends me these types of updates and we thought it might be a good idea for me to be included on your email list.  
If that works, I appreciate it.  
Take care,

### **Katie Crowley**

Regional Development Advisor - Tourism | Regional Services Branch  
Ministry of Tourism, Culture and Sport  
300 Water Street, 2nd Floor, South Tower  
Peterborough, ON K9H 8M5  
**Phone:** (705) 761-6748 **Email:** [katie.crowley@ontario.ca](mailto:katie.crowley@ontario.ca)

Please contact me if you require this email or any of the attached materials in an alternate format.

---

**From:** Antler, James (MTCS) <[James.Antler@ontario.ca](mailto:James.Antler@ontario.ca)>  
**Sent:** December 4, 2023 4:39 PM  
**To:** Crowley, Katie (MTCS) <[Katie.Crowley@ontario.ca](mailto:Katie.Crowley@ontario.ca)>  
**Cc:** DeSousa, Adam (MTCS) <[Adam.DeSousa@ontario.ca](mailto:Adam.DeSousa@ontario.ca)>  
**Subject:** FW: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

Katie:

Another project for you to be aware of. If you want to get on the project mailing list, I'd say contact Regine below.

Jim

---

**From:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Sent:** December 4, 2023 2:05 PM



To: Antler, James (MTCS) <[James.Antler@ontario.ca](mailto:James.Antler@ontario.ca)>

Cc: Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>

Subject: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Hello,

The Municipality of Centre Hastings has retained J.L. Richards & Associates Limited to initiate a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater, and Stormwater Master Plan for Madoc.

The attached Notice of Study Commencement is being sent to agencies and organizations that may have an interest in this study.

Comments on this study should be sent to the project team by email or mail as provided in the Notice of Commencement.

Thank you,

**Regine Climaco, EIT**  
Civil Engineering Intern

J.L. Richards & Associates Limited  
203 - 863 Princess Street, Kingston, ON K7L 5N4  
Direct: 343-306-0065



**J.L. Richards  
& Associates Limited**  
ENGINEERS • ARCHITECTS • PLANNERS



Platinum  
member



## Regine Climaco

---

**From:** Christine Phillibert <CPhillibert@quinteconservation.ca>  
**Sent:** March 8, 2024 12:08 PM  
**To:** Regine Climaco; Sharlene Richardson  
**Cc:** Dave Eastcott; Prabhkaran Singh Cheema  
**Subject:** RE: Madoc Master Plan - Deer Creek and Unnamed Creek Flow Rates  
**Attachments:** 2. Deer Creek - Hydrologic Modelling Report.pdf

**[CAUTION]** This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hello Regine,

I have attached the most recent hydrologic report for Deer Creek. This was produced for the purpose of floodplain mapping, so it would not provide good information for monthly average flows. We do not have current information for the Unnamed Creek.

Drainage areas can be obtained using GIS tools or the Ontario Watershed Information Tool available through the province.

Let me know if you have any outstanding questions that I can assist with.

Regards,



**Christine Phillibert** (she/her)

Water Resources Manager

**P:** 613-968-3434 or 613-354-3312 ext. 130

**E:** [cphillibert@quinteconservation.ca](mailto:cphillibert@quinteconservation.ca)

RR#2, 2061 Old Hwy #2, Belleville, ON K8N 4Z2

[QuinteConservation.ca](http://QuinteConservation.ca) | [QuinteSourceWater.ca](http://QuinteSourceWater.ca)



*Working, living, and learning on the traditional territories of the Anishinabek, Huron-Wendat, and Haudenosaunee (Iroquois) peoples.*

 **Consider the environment. Please don't print this e-mail unless you really need to.**

Disclaimer: This is intended for the addressee indicated above. It may contain information that is privileged, confidential, or otherwise protected from disclosure under the Municipal Freedom of Information and Privacy Protection Act. If you have received this in error, please notify us immediately.

---

**From:** Regine Climaco <rclimaco@jlrichards.ca>  
**Sent:** Monday, March 4, 2024 10:47 AM  
**To:** Christine Phillibert <CPhillibert@quinteconservation.ca>; Sharlene Richardson <SRichardson@quinteconservation.ca>



**Cc:** Dave Eastcott <DEastcott@quinteconservation.ca>; Prabhkaran Singh Cheema <pcheema@jlrichards.ca>

**Subject:** RE: Madoc Master Plan - Deer Creek and Unnamed Creek Flow Rates

**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.

Hi Christine,

Following up if you are able to provide any information on Deer Creek and the Unnamed Creek, that would be appreciated.

Thank you,  
Regine

**Regine Climaco**

Civil Engineering Intern

J.L. Richards & Associates Limited  
203 - 863 Princess Street, Kingston, ON K7L 5N4  
Direct: 343-306-0065



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& Associates Limited**  
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---

**From:** Regine Climaco

**Sent:** Friday, February 2, 2024 10:19 AM

**To:** Christine Phillibert <[CPhillibert@quinteconservation.ca](mailto:CPhillibert@quinteconservation.ca)>; Sharlene Richardson <[SRichardson@quinteconservation.ca](mailto:SRichardson@quinteconservation.ca)>

**Cc:** Dave Eastcott <[DEastcott@quinteconservation.ca](mailto:DEastcott@quinteconservation.ca)>; Prabhkaran Singh Cheema <[pcheema@jlrichards.ca](mailto:pcheema@jlrichards.ca)>

**Subject:** RE: Madoc Master Plan - Deer Creek and Unnamed Creek Flow Rates

Hi Christine,

Would you be able to provide the drainage area for both creeks?

Any information that you could provide, including average conditions and IDF curves specific to the creeks, would be helpful then we can make assumptions from there.

Thank you,

---

**From:** Christine Phillibert <[CPhillibert@quinteconservation.ca](mailto:CPhillibert@quinteconservation.ca)>

**Sent:** Thursday, February 1, 2024 11:18 AM

**To:** Sharlene Richardson <[SRichardson@quinteconservation.ca](mailto:SRichardson@quinteconservation.ca)>; Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>

**Cc:** Dave Eastcott <[DEastcott@quinteconservation.ca](mailto:DEastcott@quinteconservation.ca)>

**Subject:** RE: Madoc Master Plan - Deer Creek and Unnamed Creek Flow Rates



**[CAUTION]** This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Hello Regine,

Can you confirm what type of flow data you are looking for? These watercourses are ungauged. We do not have information on the temporal flow changes or monthly averages for these creeks. Are you looking for average conditions or are you seeking high or low return period flow data?

Thank you,



**Christine Phillibert** (she/her)

Water Resources Manager

**P:** 613-968-3434 or 613-354-3312 ext. 130

**E:** [cphillibert@quinteconservation.ca](mailto:cphillibert@quinteconservation.ca)

RR#2, 2061 Old Hwy #2, Belleville, ON K8N 4Z2

[QuinteConservation.ca](http://QuinteConservation.ca) | [QuinteSourceWater.ca](http://QuinteSourceWater.ca)



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 **Consider the environment. Please don't print this e-mail unless you really need to.**

Disclaimer: This is intended for the addressee indicated above. It may contain information that is privileged, confidential, or otherwise protected from disclosure under the Municipal Freedom of Information and Privacy Protection Act. If you have received this in error, please notify us immediately.

---

**From:** Sharlene Richardson <[SRichardson@quinteconservation.ca](mailto:SRichardson@quinteconservation.ca)>

**Sent:** Thursday, February 1, 2024 9:12 AM

**To:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>

**Cc:** Christine Phillibert <[CPhillibert@quinteconservation.ca](mailto:CPhillibert@quinteconservation.ca)>; Dave Eastcott <[DEastcott@quinteconservation.ca](mailto:DEastcott@quinteconservation.ca)>

**Subject:** RE: Madoc Master Plan - Deer Creek and Unnamed Creek Flow Rates

Hi Regine,

Thanks very much for your email. I've copied Christine Phillibert, our Manager of Water Resources, and Dave Eastcott, our Water Resources Technologist on this email to you as they would be better suited to answer your questions regarding stormwater modelling. If you have any questions on our regulation or potential permit requirements from our office I would be happy to help with that but in the meantime I'll leave you in the very capable hands of Christine and Dave.

All the best,  
Sharlene





**Sharlene Richardson** (she/her)

Regulations Officer

P: 613-968-3434 or 613-354-3312

E: [srichardson@quinteconservation.ca](mailto:srichardson@quinteconservation.ca)

RR#2, 2061 Old Hwy #2, Belleville, ON K8N 4Z2

[QuinteConservation.ca](http://QuinteConservation.ca) | [QuinteSourceWater.ca](http://QuinteSourceWater.ca)



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---

**From:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Sent:** Wednesday, January 31, 2024 11:39 AM  
**To:** Sharlene Richardson <[SRichardson@quinteconservation.ca](mailto:SRichardson@quinteconservation.ca)>  
**Subject:** FW: Madoc Master Plan - Deer Creek and Unnamed Creek Flow Rates

**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.

Hi Sharlene,

I'm on the project team for the Madoc Water, Wastewater and Stormwater Master Plan.

As part of our stormwater modeling exercise, we'd like to understand:

- the flow rate for the section of deer creek, upstream of our study area as outlined in the key infrastructure map.
- Flow rate for the section of the unnamed creek, located north east and upstream of our study area. (As noted on Quinte CA's response to our Notice of Study Commencement).

Could you please direct me to the person that can provide this info?

Thank you,

**Regine Climaco**, EIT  
Civil Engineering Intern

J.L. Richards & Associates Limited  
203 - 863 Princess Street, Kingston, ON K7L 5N4  
Direct: 343-306-0065





## Regine Climaco

---

**From:** ONT Environment / Environnement ONT <EnviroOnt@tc.gc.ca>  
**Sent:** December 15, 2023 8:39 AM  
**To:** Regine Climaco  
**Cc:** Susan Jingmiao Shi  
**Subject:** RE: [External/Externe]: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan  
**Attachments:** 32508-000 - Madoc MP Class EA NOC -EnglishV3\_FINAL.pdf

**[CAUTION]** This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Greetings,

Thank you for your correspondence.

Please note Transport Canada does not require receipt of all Individual or Class EA related notifications. We request that project proponents self-assess whether their project:

1. Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at [www.tbs-sct.gc.ca/dfpr-rbif/](http://www.tbs-sct.gc.ca/dfpr-rbif/); **and**
2. Will require approval and/or authorization under any Acts administered by Transport Canada\* available at <http://www.tc.gc.ca/eng/acts-regulations/menu.htm>.

Proposed projects that will occur on federal property (including reserve lands or lands owned by federal departments other than Transport Canada) will be subject to an Impact Assessment per Section 82 of the *Impact Assessment Act, 2019* prior to exercising a federal power (including full or partial funding), and/or performing a function or duty (e.g. regulatory approval or issuance of a lease) in relation to that project.

If the criteria above do not apply, Transport Canada's Environmental Assessment program should not be included in any further correspondence, and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded to: [EnviroOnt@tc.gc.ca](mailto:EnviroOnt@tc.gc.ca) with a **brief description of Transport Canada's expected role**.

\*Below is a summary of the most common Acts that apply to projects in an Environmental Assessment context:

- **Canadian Navigable Waters Act (CNWA)** – the Act applies primarily to works constructed or placed in, on, over, under, through, or across navigable waters set out under the Act. The Navigation Protection Program administers the CNWA through the review and authorization of works affecting navigable waters. Information about the Program, CNWA and approval process is available at: <http://www.tc.gc.ca/eng/programs-621.html>. Inquiries can be directed to [NPPONT-PPNONT@tc.gc.ca](mailto:NPPONT-PPNONT@tc.gc.ca) or by calling (519) 383-1863.
- **Railway Safety Act (RSA)** – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about



the Program is available at: <https://www.tc.gc.ca/eng/railsafety/menu.htm>. Inquiries can be directed to [RailSafety@tc.gc.ca](mailto:RailSafety@tc.gc.ca) or by calling (613) 998-2985.

- **Transportation of Dangerous Goods Act (TDGA)** – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: <https://www.tc.gc.ca/eng/tdg/safety-menu.htm>. Inquiries can be directed to [TDG-TMDOntario@tc.gc.ca](mailto:TDG-TMDOntario@tc.gc.ca) or by calling (416) 973-1868.
- **Aeronautics Act** – this Act and the associated Canadian Aviation Regulations (CARs) govern civil aviation in Canada. Transport Canada should be notified of projects involving aerodromes and associated structures, or activities that could affect aviation safety. Elevated structures, such as wind turbines and communication towers, are examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. Additional guidance can be found in the *Land Use In The Vicinity of Aerodromes* publication, available at: <https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm>. Information about Transport Canada’s Civil Aviation program can be found at: <https://tc.canada.ca/en/aviation>. Inquires can be directed to [aviation.ont@tc.gc.ca](mailto:aviation.ont@tc.gc.ca) or by calling 1 (800) 305-2059 / (416) 952-0230.

Please advise if additional information is needed.

Thank you,

**Environmental Assessment Program, Ontario Region**

Transport Canada / Government of Canada / 4900 Yonge St., Toronto, ON M2N 6A5

[EnviroOnt@tc.gc.ca](mailto:EnviroOnt@tc.gc.ca)

**Programme d'évaluation environnementale, Région de l'Ontario**

Transports Canada / Gouvernement du Canada / 4900, rue Yonge, Toronto, ON, M2N 6A5

[EnviroOnt@tc.gc.ca](mailto:EnviroOnt@tc.gc.ca)

---

**From:** Regine Climaco <rclimaco@jlrichards.ca>

**Sent:** Monday, December 04, 2023 2:12 PM

**To:** ONT Environment / Environnement ONT <EnviroOnt@tc.gc.ca>

**Cc:** Susan Jingmiao Shi <sshi@jlrichards.ca>

**Subject:** [External/Externe]: Notice of Study Commencement: Madoc Water, Wastewater, and Stormwater Master Plan

Hello,

The Municipality of Centre Hastings has retained J.L. Richards & Associates Limited to initiate a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater, and Stormwater Master Plan for Madoc.

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Comments on this study should be sent to the project team by email or mail as provided in the Notice of Commencement.

Thank you,



**Regine Climaco, EIT**  
Civil Engineering Intern

J.L. Richards & Associates Limited  
203 - 863 Princess Street, Kingston, ON K7L 5N4  
Direct: 343-306-0065







Hydro One Networks Inc.

483 Bay Street  
8th Floor South Tower  
Toronto, Ontario M5G 2P5

HydroOne.com

March 12, 2024

Re: Madoc Water, Wastewater and Stormwater Master Plan

Attention:

Susan Jingmiao Shi, P.Eng., M.Eng.  
Senior Environmental Engineer  
J.L. Richards & Associates Limited

Thank you for sending us notification regarding Madoc Water, Wastewater and Stormwater Master Plan. In our preliminary assessment, we have confirmed that Hydro One has existing distribution assets 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.

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](mailto:secondarylanduse@hydroone.com)

Sent on behalf of,

**Secondary Land Use  
Asset Optimization  
Strategy & Integrated Planning  
Hydro One Networks Inc.**



**From:** von Bitter, Robert (MCM) <Robert.vonBitter@ontario.ca>  
**Sent:** April 10, 2024 2:19 PM  
**To:** Regine Climaco  
**Cc:** Susan Jingmiao Shi  
**Subject:** Re: 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan archaeological sites

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Regine,

The only reported archaeological site in your study area is located within this generalized box of the attached map. Even though the actual site location info is somewhat obscured, please don't redistribute this map.

Regards,

Rob



---

**From:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Sent:** Monday, March 25, 2024 11:17 AM  
**To:** von Bitter, Robert (MCM) <[Robert.vonBitter@ontario.ca](mailto:Robert.vonBitter@ontario.ca)>  
**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>  
**Subject:** RE: 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan archaeological sites

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Hi Rob,

Please see attached map.

Thank you,



**Regine Climaco**  
Civil Engineering Intern

203 - 863 Princess Street  
Kingston, ON, K7L 5N4  
Work: [343-306-0065](tel:343-306-0065)  
[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)

---

**From:** von Bitter, Robert (MCM) <[Robert.vonBitter@ontario.ca](mailto:Robert.vonBitter@ontario.ca)>  
**Sent:** Monday, March 25, 2024 6:15 AM  
**To:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>  
**Subject:** Re: 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan archaeological sites

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Regine,

Could you provide a map showing the location and extent of those properties please?

Thanks,

Rob



---

**From:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Sent:** Friday, March 22, 2024 3:01 PM  
**To:** von Bitter, Robert (MCM) <[Robert.vonBitter@ontario.ca](mailto:Robert.vonBitter@ontario.ca)>  
**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>  
**Subject:** RE: 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan archaeological sites

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Hi Rob,

This will be for a master plan so we would like to describe archaeological constraints.


We are also considering a water supply storage expansion and would like to screen the following addresses:


1. 119 Mackenzie Street, Madoc, ON
2. 71 Davidson Street, Madoc, ON
3. 29 Rollins Street, Madoc, ON
4. MADOC CON 5 PT LOT 1 RP;21R6232 PT PART 6. [Madoc - Google Maps](#): 44°30'10.0"N 77°28'51.6"W. (A very large parcel. Is it possible to see if there's archaeological sites in the north-east corner?)

Thank you,

**Regine Climaco**  
Civil Engineering Intern

203 - 863 Princess Street  
Kingston, ON, K7L 5N4  
Work: [343-306-0065](tel:343-306-0065)  
[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)



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**From:** von Bitter, Robert (MCM) <[Robert.vonBitter@ontario.ca](mailto:Robert.vonBitter@ontario.ca)>  
**Sent:** Friday, March 22, 2024 12:39 PM  
**To:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>  
**Subject:** Re: 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan archaeological sites

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Regine,

Does the screening form require you to know the location, or it a check of whether there are/are not sites in the planning area?

Rob

---

**From:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Sent:** Thursday, March 21, 2024 3:23 PM  
**To:** von Bitter, Robert (MCM) <[Robert.vonBitter@ontario.ca](mailto:Robert.vonBitter@ontario.ca)>  
**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>  
**Subject:** RE: 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan archaeological sites

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Hi Robert,

Thank you, Would you be able to advise which areas within the study area have archaeological sites?



---

**From:** von Bitter, Robert (MCM) <[Robert.vonBitter@ontario.ca](mailto:Robert.vonBitter@ontario.ca)>  
**Sent:** Thursday, March 21, 2024 11:10 AM  
**To:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Subject:** Re: 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan archaeological sites

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Regine,

There are reported archaeological sites mapping within master plan study area.



Regards,

Robert von Bitter

Robert von Bitter  
Archaeological Data Co-Ordinator  
Archaeology Program Unit  
Ministry of Citizenship and Multiculturalism  
Citizenship, Inclusion and Heritage Division | Heritage Branch  
[Robert.vonBitter@ontario.ca](mailto:Robert.vonBitter@ontario.ca)

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**From:** Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>  
**Sent:** Thursday, March 7, 2024 10:41 AM  
**To:** Archaeology (MCM) <[archaeology@ontario.ca](mailto:archaeology@ontario.ca)>  
**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>  
**Subject:** 32508-000 - Madoc Water, Wastewater, and Stormwater Master Plan  
archaeological sites

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Hello,

The Municipality of Centre Hastings and Ontario Clean Water Agency have retained J.L. Richards & Associates Limited to complete a Municipal Class Environmental Assessment (Class EA) to assess alternative servicing solutions for Madoc's water, wastewater, and stormwater infrastructure for the next 20-years

Under the EA process, the proponent is required to determine a project's potential impact on archaeological and cultural heritage resources.

We kindly request archaeological information or any areas with archaeological potential within 300m of the attached master plan study area (grey hatched outline), such that we can complete the preliminary archaeological screening form.

Thank you,





**Regine Climaco**  
Civil Engineering Intern

203 - 863 Princess Street  
Kingston, ON, K7L 5N4  
Work: [343-306-0065](tel:343-306-0065)  
[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)

## Regine Climaco

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**From:** ONT Environment / Environnement ONT <EnviroOnt@tc.gc.ca>  
**Sent:** May 27, 2024 10:32 AM  
**To:** Albert Jin  
**Cc:** Susan Jingmiao Shi; Regine Climaco  
**Subject:** RE: [External/Externe]: Public Information Centre #2 Notice: Madoc Water, Wastewater, and Stormwater Master Plan and Schedule B EA for Water Tower

**[CAUTION]** This email originated from outside JLR. Do not click links or open attachments unless you recognize the sender and know the content is safe. Do not forward suspicious emails, if you are unsure, please send a separate message to Helpdesk.

Greetings,

Thank you for your correspondence.

Please note Transport Canada does not require receipt of all Individual or Class EA related notifications. We request that project proponents self-assess whether their project:

1. Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at [www.tbs-sct.gc.ca/dfpr-rbif/](http://www.tbs-sct.gc.ca/dfpr-rbif/); and
2. Will require approval and/or authorization under any Acts administered by Transport Canada\* available at <http://www.tc.gc.ca/eng/acts-regulations/menu.htm>.

Proposed projects that will occur on federal property (including reserve lands or lands owned by federal departments other than Transport Canada) will be subject to an Impact Assessment per Section 82 of the *Impact Assessment Act, 2019* prior to exercising a federal power (including full or partial funding), and/or performing a function or duty (e.g. regulatory approval or issuance of a lease) in relation to that project.

If the criteria above do not apply, Transport Canada's Environmental Assessment program should not be included in any further correspondence, and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded to: [EnviroOnt@tc.gc.ca](mailto:EnviroOnt@tc.gc.ca) with a **brief description of Transport Canada's expected role**.

\*Below is a summary of the most common Acts that apply to projects in an Environmental Assessment context:

- **Canadian Navigable Waters Act (CNWA)** – the Act applies primarily to works constructed or placed in, on, over, under, through, or across navigable waters set out under the Act. The Navigation Protection Program administers the CNWA through the review and authorization of works affecting navigable waters. Information about the Program, CNWA and approval process is available at: <http://www.tc.gc.ca/eng/programs-621.html>. Inquiries can be directed to [NPPONT-PPNONT@tc.gc.ca](mailto:NPPONT-PPNONT@tc.gc.ca) or by calling (519) 383-1863.
- **Railway Safety Act (RSA)** – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about the Program is available at: <https://www.tc.gc.ca/eng/railsafety/menu.htm>. Inquiries can be directed to [RailSafety@tc.gc.ca](mailto:RailSafety@tc.gc.ca) or by calling (613) 998-2985.



- **Transportation of Dangerous Goods Act (TDGA)** – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: <https://www.tc.gc.ca/eng/tdg/safety-menu.htm>. Inquiries can be directed to [TDG-TMDOntario@tc.gc.ca](mailto:TDG-TMDOntario@tc.gc.ca) or by calling (416) 973-1868.
- **Aeronautics Act** – this Act and the associated Canadian Aviation Regulations (CARs) govern civil aviation in Canada. Transport Canada should be notified of projects involving aerodromes and associated structures, or activities that could affect aviation safety. Elevated structures, such as wind turbines and communication towers, are examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. Additional guidance can be found in the *Land Use In The Vicinity of Aerodromes* publication, available at: <https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm>. Information about Transport Canada’s Civil Aviation program can be found at: <https://tc.canada.ca/en/aviation>. Inquires can be directed to [aviation.ont@tc.gc.ca](mailto:aviation.ont@tc.gc.ca) or by calling 1 (800) 305-2059 / (416) 952-0230.

Please advise if additional information is needed.

Thank you,

**Environmental Assessment Program, Ontario Region**

Transport Canada / Government of Canada / 4900 Yonge St., Toronto, ON M2N 6A5

[EnviroOnt@tc.gc.ca](mailto:EnviroOnt@tc.gc.ca)

**Programme d'évaluation environnementale, Région de l'Ontario**

Transports Canada / Gouvernement du Canada / 4900, rue Yonge, Toronto, ON, M2N 6A5

[EnviroOnt@tc.gc.ca](mailto:EnviroOnt@tc.gc.ca)

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**From:** Albert Jin <[ajin@jlrichards.ca](mailto:ajin@jlrichards.ca)>

**Sent:** Friday, May 17, 2024 2:45 PM

**Cc:** Susan Jingmiao Shi <[sshi@jlrichards.ca](mailto:sshi@jlrichards.ca)>; Regine Climaco <[rclimaco@jlrichards.ca](mailto:rclimaco@jlrichards.ca)>

**Subject:** [External/Externe]: Public Information Centre #2 Notice: Madoc Water, Wastewater, and Stormwater Master Plan and Schedule B EA for Water Tower

Hello,

The Municipality of Centre Hastings has retained J.L. Richards & Associates Limited to initiate a Master Planning process in accordance with Approach 1 of the Municipal Engineers Association (MEA) Class Environmental Assessment (Class EA) to develop a Water, Wastewater, and Stormwater Master Plan for Madoc.

The attached notice for Public Information Centre #2 is being sent to agencies and organizations that may have an interest in this study.

The Public Information Centre No.2 is scheduled as follows:

**Date:** June 11<sup>th</sup>, 2024

**Time:** 5:00 p.m. to 7:00 p.m.

**Location:** Arts Centre Hastings, 24 Seymour Street West, Madoc, ON

Project information will also be provided on the Municipality’s website at [centrehastings.com/our-municipality/water-resources/madoc-water-wastewater-and-stormwater-master-plan](http://centrehastings.com/our-municipality/water-resources/madoc-water-wastewater-and-stormwater-master-plan). If you have any questions regarding the study, please contact the project team as provided in the Public Information Centre Notice.

Thank you,



**Albert Jin, M.Eng.**  
Environmental Engineering Intern

863 Princess Street  
Kingston, ON, K7L 5N4

Work: [343-306-0069](tel:343-306-0069)  
[ajin@ilrichards.ca](mailto:ajin@ilrichards.ca)