



**TOWN OF MATTAWA
CONSTRUCTION OF A
PROPOSED WATER STORAGE RESERVOIR
AND RELATED WATER SYSTEM IMPROVEMENTS
PROJECT NO. 23-1068J**

**MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
SCHEDULE B**

PREPARED FOR: TOWN OF MATTAWA
160 WATER STREET
MATTAWA, ONTARIO P0H 1V0

PREPARED BY: Jp2g CONSULTANTS INC.
ENGINEERS • PLANNERS • PROJECT MANAGERS

JUNE 25, 2026



Jp2g Consultants Inc.

ENGINEERS • PLANNERS • PROJECT MANAGERS

12 International Drive, Pembroke, ON, K8A 6W5
T 613-735-2507, F 613-735-4513, www.jp2g.com

**PROPOSED WATER STORAGE RESERVOIR AND
RELATED WATER SYSTEM IMPROVEMENTS
CLASS B ENVIRONMENTAL ASSESSMENT
SCHEDULE B**

TABLE OF CONTENTS

1.0	BACKGROUND	1
2.0	PURPOSE OF THE UNDERTAKING	3
3.0	WATER SYSTEM COMPONENTS.....	4
4.0	ENVIRONMENTAL ASSESSMENT PROCESS	6
5.0	PHASE 1 PROBLEM STATEMENT	7
6.0	PHASE 2 IDENTIFY ALTERNATIVE SOLUTIONS.....	7
7.0	RATIONALE FOR SCHEDULE B ASSESSMENT	8
8.0	NOTICE OF STUDY COMMENCEMENT/PUBLIC MEETING (PIC)	8
9.0	NOTICE OF STUDY COMPLETION.....	10
10.0	PUBLIC CONSULTATION.....	12
11.0	ABORIGINAL CONSULTATION	14
12.0	AGENCY CONSULTATION	15
13.0	RECOMMENDED DESIGN CRITERIA	19
14.0	ALTERNATIVE SOLUTIONS.....	21
15.0	PHASE 3 NET ENVIRONMENTAL EFFECTS AND POTENTIAL MITIGATION ALTERNATIVE OPTIONS 1, 2 AND 3 RESERVOIR SITES CONCEPTS	34
16.0	PHASE 4 RECOMMENDED PREFERRED SOLUTION AND PROJECT COMPONENTS.....	37
17.0	FOLLOW UP ITEMS.....	38
18.0	PHASE 5 NOTICE OF STUDY COMPLETION	38

FIGURES

Figure 1	Town of Mattawa Municipal Land Bank Area Existing Zoning	3
Figure 2	Notice of Study Commencement and Public Information Center	9
Figure 3	Draft Notice of Study Completion	11
Figure 4	GeoWarehouse Property Index	13
Figure 5	Aboriginal Contact List	14
Figure 6	Agency Contact List	16
Figure 7	Mattawa Water Supply and Distribution Storage Requirements (Preliminary).....	19
Figure 8	Water Storage Requirements per ODWG MOECC Design Guidelines	20
Figure 9	Water Transmission (Trunk) System Improvements as per Proctor & Redfern Recommendations (1994) and Current Status (2024).....	21
Figure 10	Photo of Existing Reservoir	23
Figure 11	Existing Reservoir Location	24
Figure 12	Photo of Existing Water Treatment Plant	26
Figure 13	Existing Water Treatment Plant Location.....	27
Figure 14	Water Reservoir Storage Options	28
Figure 15	Assessment of Location Alternatives for Water Storage Reservoir.....	30
Figure 16	New Reservoir and Related Waterworks Improvement Potential Project Components...	32
Figure 17	Evaluation of Preliminary Design Alternatives, Net Environmental Effects and Potential Mitigation	35
Figure 18	New Water Storage Reservoir and Related Waterworks Follow-up Items.....	38

MAPS

Map A	Municipal Land Bank Area.....	2
Map B	Town of Mattawa Water Supply & Distribution System.....	5
Map C	Water Supply Transmission Grid.....	22
Map D	New Reservoir Location Options.....	29
Map E	WaterCad Computer Simulation.....	33

APPENDICES

Appendix A	Record of Activities
Appendix B	Aboriginal Consultation Plan
Appendix C	Health & Safety Water System Fund (HSWS) Application
Appendix D	Estimated Total Project Cost of Preferred Alternative

1.0 BACKGROUND

The Town of Mattawa existing population 2,000 is in the process of developing a Municipal Land Bank on 240 acres of Town property for residential housing and light industrial land uses in the southeast sector of the Municipality as shown on Map A hereto.

On successful “build out” of the Municipal Land Bank target of 300 residential units the 20 year population of Mattawa will be in the order of 3,000.

The 240 acre subject property is presently zoned OS - Open Space (190 acres) and I - Light Industrial (55.3 acres) as shown on Figure 1 hereto; however, an Official Plan and Comprehensive Zoning By-law Update are currently underway; which will accommodate proposed residential and industrial land uses as well as Parks and Open Space as shown on Map A.

The subject Municipal Land Bank Area property is located at 49.309260° Latitude and -78.697050° Longitude.

The Municipal Land Bank Area initiative is in accordance with the Province of Ontario “Build More Homes Faster Act” 2022.

The development of a Municipal Land Bank in the Brook Street/Dorion Road/Bélanger Road area has been identified as a high priority in the Town of Mattawa Non-Core Asset Management Plan completed in May 2024 and related infrastructure improvements including a new water storage reservoir and water system improvements have been identified and costed in the Town of Mattawa Core Asset Management Plan (July 2022) and the “Housing Enabling Water System Fund” (HEWSF) program applications Intake 1 (May 2024) and Intake 2 (October 2024), as well as the Health and Safety Water Fund (HSWS) program (June 2025).

The Ministry of Environment and the Fire Underwriters’ Association have previously indicated that the Town of Mattawa Water Supply does not meet fire protection guidelines for existing structures in the Town of Mattawa.

It is important to note at the outset of this Environmental Assessment that a water supply and distribution system is, in fact, a **SYSTEM** wherein components interact with and on each other and one component cannot simply be extracted and analyzed separately from other components of the water supply and distribution system such as water pumps, reservoir storage and trunk mains.

An updated analysis of the overall Town of Mattawa Water Supply and Distribution System and an Engineering Options Analysis of the Proposed Water Storage Reservoir and related water system improvements will be essential to the successful implementation of the new Water Storage Reservoir Facility undertaking.

Map A
Town of Mattawa Municipal Land Bank Area
Project Area

JUNE 25, 2026

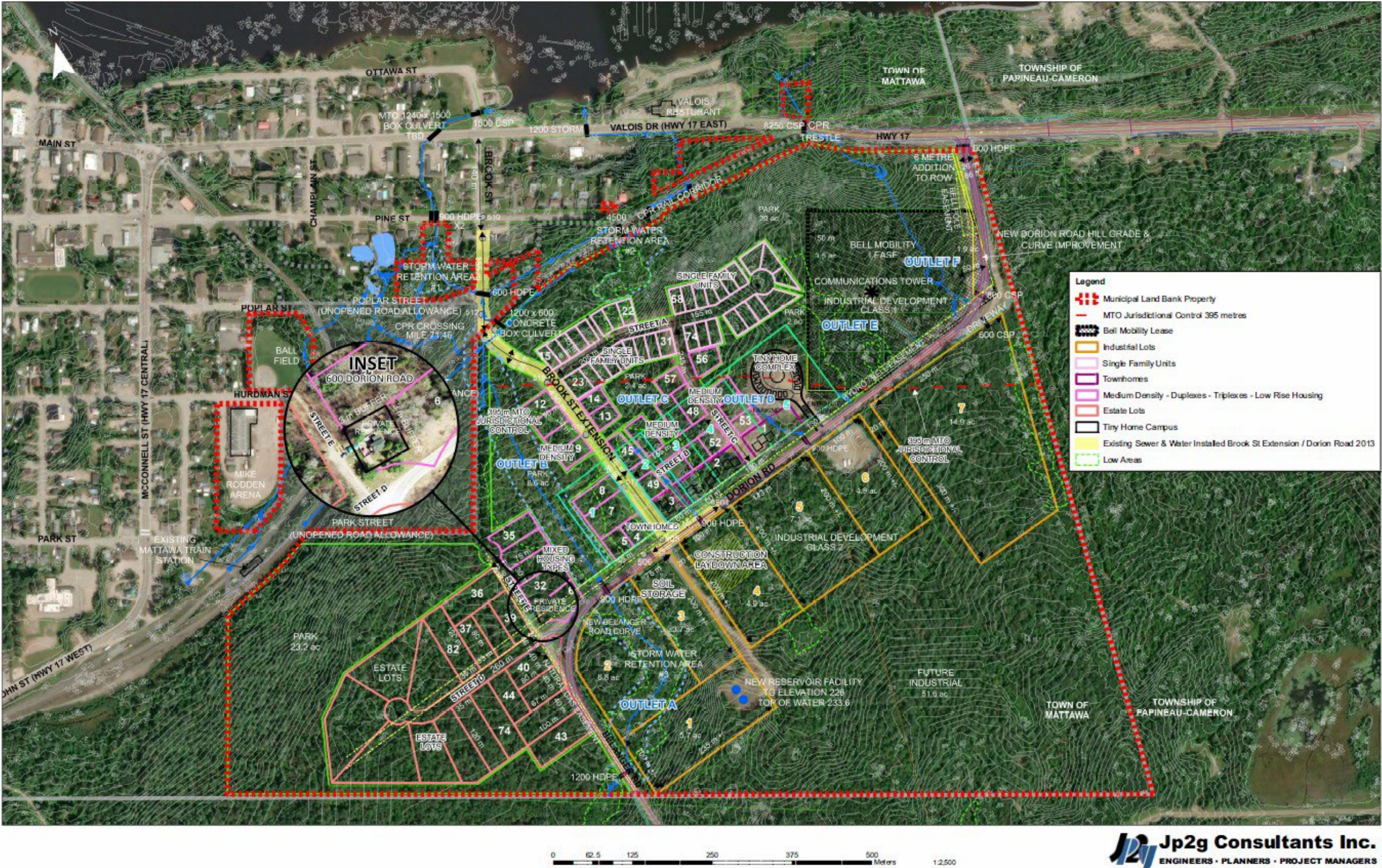
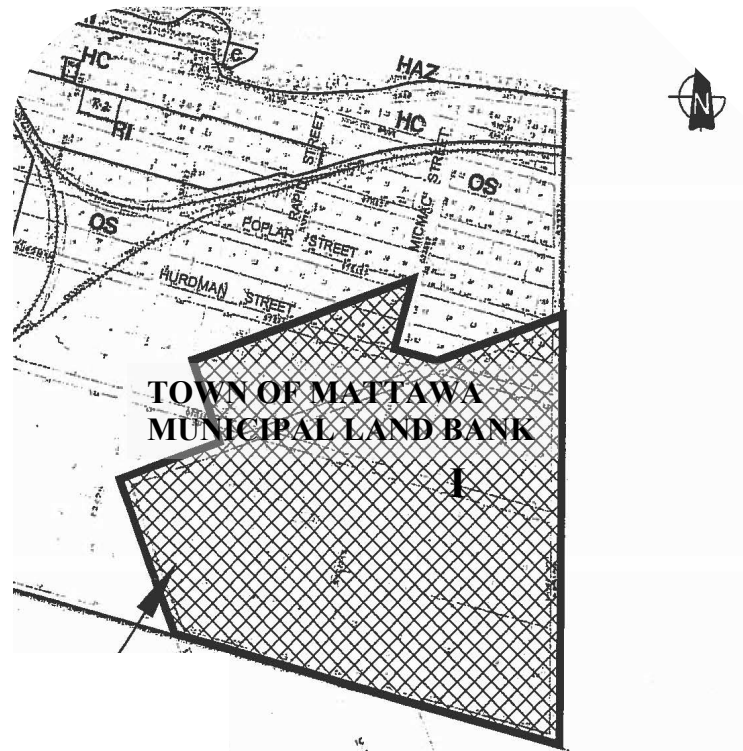


Figure 1
Town of Mattawa
Municipal Land Bank Area
Existing Zoning



2.0 PURPOSE OF THE UNDERTAKING

The construction of a new water storage reservoir and related water system improvements as per this proposed undertaking will address domestic water supply requirements and fire protection for the development of Municipal Land Bank; as well as mitigate Town wide public safety issues regarding fire protection identified in earlier studies including:

Proctor & Redfern Water Supply Study Report 1994
Jp2g Consultants Inc. Preliminary Water System Analysis 2018
Jp2g Consultants Core Asset Management Study 2022

The successful implementation of the proposed new Water Storage Reservoir and Related Waterworks undertaking is essential to the development of Municipal Land Bank Area.

The outcomes of this project will improve health and safety; as well as promote the protection of the current housing supply within the Town of Mattawa.

3.0 WATER SYSTEM COMPONENTS

The current population for the Town of Mattawa is approximately 2,150 people and the projected 20 year design population is 3,000 people. Average day water consumption in 2023 was 593 liters or 130 Igal/person/day. Ministry of Environment Design Guideline is 450 liters (100 Igal/person/day). Nominal water pressure throughout the Town of Mattawa water distribution system is approximately 100 psi; which is considered high.

The Town of Mattawa Drinking Water System is categorized as a “Large Municipal Residential Drinking Water System”.

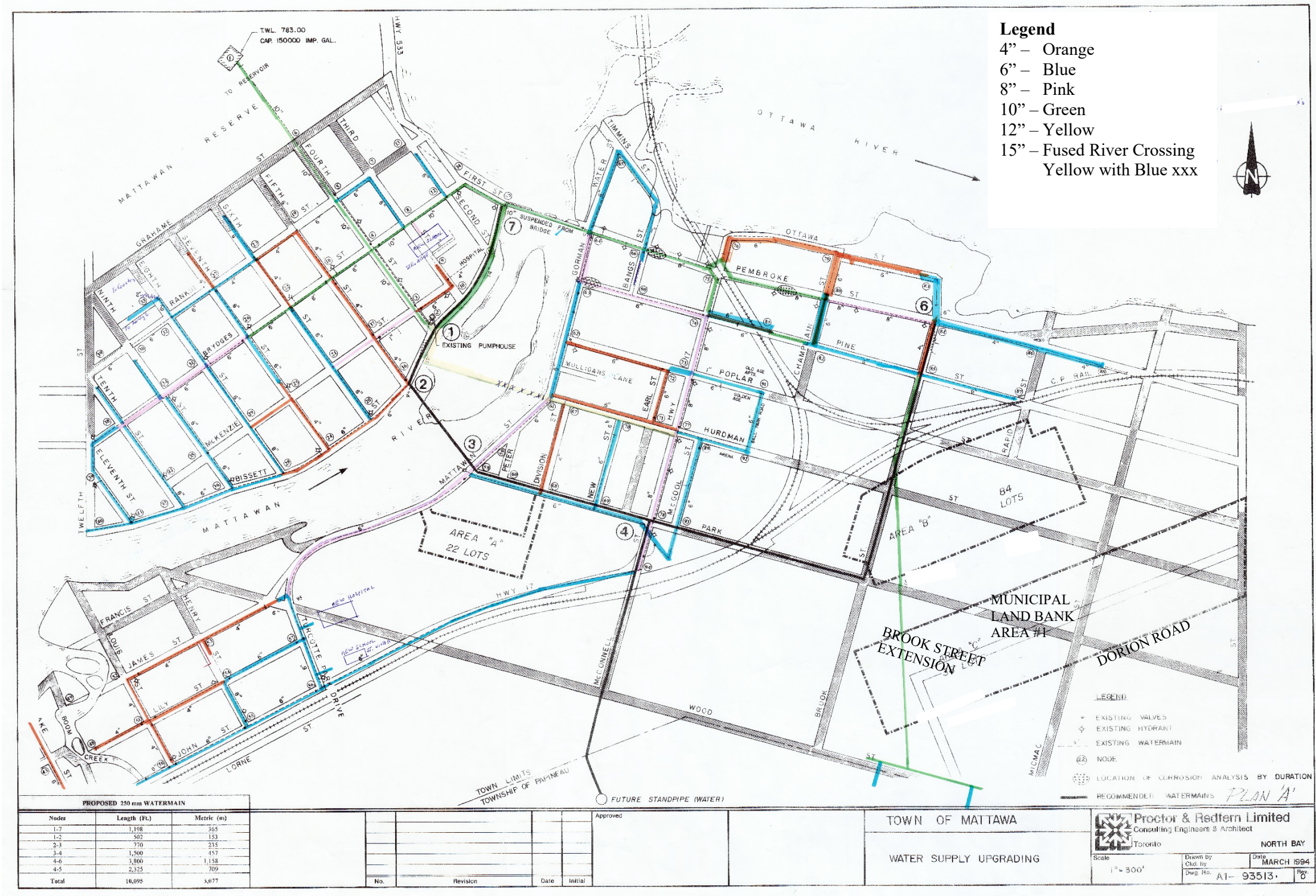
In accordance with the Municipal Drinking Water Licence, the Town of Mattawa Drinking Water System is limited to a maximum of 6,540 m³/day.

The Town of Mattawa Water Supply and Distribution System was substantially constructed between 1952 and 1962 and currently consists of the following components

1. Groundwater supply water treatment plant c/w two (2) production wells
2. 800 m³ (174,836 Igal) in-ground water storage reservoir constructed in 1949/50 with “useable capacity” of approximately 700 m³ (153,978 Igal)
3. 250 mm (10”) dia. feeder line connection between Water Treatment Plant and Reservoir
4. 300 mm (12”) dia. and 15” dia. watermain crossing Mattawa River at Mattawa Conservation Area Island connecting Bissett Street and Hurdman Street
5. 250 mm (10”) dia. watermain crossing suspended from Mauril Bélanger Bridge (Main Street) crossing the Mattawa River
6. Water distribution system piping ranging in size from 100 mm (4”) dia. to 380 mm (15”) dia. There are currently approximately 20,000 meters of various sized cast iron, ductile iron and polyvinyl chloride piping
7. There are approximately 1,050 service connections and 117 hydrants in the system

A map showing the Town of Mattawa Water Supply and Distribution System is provided on Map B.

Map B
Town of Mattawa
Water Supply and Distribution System



4.0 ENVIRONMENTAL ASSESSMENT PROCESS

A Class Environmental Assessment (Class EA) conducted under the requirements of the Environmental Assessment Act (EA Act) includes projects which are approved subject to compliance with an approved planning and design process with respect to a class of undertakings. The “Municipal Class Environmental Assessment” document dated June 2000 as amended 2015, is an approved planning and design process prepared by the Municipal Engineer’s Association. The Municipal Class EA applies to municipal infrastructure projects including roads, water and wastewater projects, and describes the process municipalities are to follow in order to satisfy the requirements of the EA Act.

The planning and design of the Town of Mattawa New Reservoir and Related Waterworks project will address current Municipal Class EA requirements under a streamlined Municipal Project Assessment Process (MPAP) under the Environmental Assessment Act as amended 2022.

This Municipal Class EA process will incorporate five (5) basic phases as summarized as follows:

- | | |
|----------------|--|
| Phase 1 | Identify the Problem or Opportunity |
| Phase 2 | Identify the Alternative Solutions to address the problem and establish the preferred solution or solutions. |
| Phase 3 | Examine Alternative Concepts for Implementing the Preferred Solution(s) based upon anticipated environmental effects and minimizing negative effects and maximizing positive effects. |
| Phase 4 | Document in an Environmental Study Report and Project File the planning, design and consultation process for the proposed undertaking. |
| Phase 5 | Complete Contract Drawings and Documents and proceed to construction and environmental monitoring. |

The Class EA process is self-directed by the Proponent and it is the Municipality’s responsibility to ensure that the planning and design process as established in the Municipal Class EA document is undertaken. Within the phases there are decision-making points where the Municipality is to confirm the applicable Class EA Schedule. It is also noted that throughout the planning and design process there are various opportunities for public review, consultation and if decisions are unacceptable there is an appeal process.

The Municipal Class EA applies to Municipal Infrastructure Projects including roads, water and waste water projects. Since projects can vary in terms of environmental impact they are classified in terms of Schedules by A, A+, B or C. Schedule B generally includes improvements and minor expansion to existing facilities with some potential for adverse environmental impacts.

THE TOWN OF MATTAWA NEW RESERVOIR AND RELATED WATERWORKS IMPROVEMENTS IS CONSIDERED TO BE A SCHEDULE B ENVIRONMENTAL ASSESSMENT. THIS SCHEDULE B PROCESS WILL PROVIDE THE BASIS FOR THE COUNCIL OF THE TOWN OF MATTAWA TO SELECT THE PREFERRED SOLUTION FOR A PROPOSED WATER STORAGE RESERVOIR AND RELATED WATER SYSTEM IMPROVEMENTS.

5.0 PHASE 1 PROBLEM STATEMENT

The existing Town of Mattawa Water Supply, Storage and Distribution System does not meet Ministry of Environment or Fire Underwriters Guidelines for Fire Protection.

The existing system poses risks in terms of age (1949) and condition of the 10" dia. feeder line to the existing reservoir and the exposure of the 300 mm (12") dia. watermain crossing of the Mattawa River to potential spring flood damage.

Water pressure varies greatly throughout the Town of Mattawa water system ranging from < 4 psi to 100 psi. The desired pressure range is 45 psi to 80 psi.

A 250 mm (10") dia. watermain constructed in 2013 on Brook Street from the CPR tracks to Dorion Road has been shut off since 2018.

THE EXISTING WATER FLOWS ARE NOT SUFFICIENT TO PROVIDE DOMESTIC WATER SUPPLY OR FIRE PROTECTION TO THE TOWN OF MATTAWA AND/OR THE MUNICIPAL LAND BANK.

6.0 PHASE 2 IDENTIFY ALTERNATIVE SOLUTIONS

The 2018 Preliminary Water System Analysis and the 2022 Core Area Management Plan, both by Jp2g Consultants Inc. Engineers • Planners • Project Managers looked at a variety of alternatives to improve the Town of Mattawa Water System on a Town wide basis.

A site specific Hydraulic Analysis conducted by Jp2g Consultants Inc. in conjunction with this Environmental Assessment will include an updated WaterCAD computer simulation to test the potential impact of various alternative approaches to improving water supply and fire protection at Municipal Land Bank Area and throughout the Town of Mattawa Municipal Water Supply and Distribution System.

The following alternatives were considered.

- Alternative 1 Complete Watermain Transmission Grid as per Proctor & Redfern Report 1994
- Alternative 2 Upgrade/Expand existing 170,000 Imperial Gallon operational capacity in-ground Water Storage Reservoir at the existing location (operational capacity approximately 153,176 Imperial Gallons)
- Alternative 3 Increase the existing Water Treatment Plant Supply, Pump Capacity and Storage
- Alternative 4 Provide New 350,000 Imperial Gallon to 500,000 Imperial Gallon Water Storage Reservoir at a new location
- Alternative 5 Improve existing Water Distribution System as per Jp2g Consultants Inc. Core Asset Management Plan and Housing Enabling Water System Fund Application

IT IS TO BE NOTED THAT THE “PREFERRED SOLUTION” MAY BE A COMBINATION OF THE ABOVE NOTED ALTERNATIVES.

7.0 RATIONALE FOR SCHEDULE B ASSESSMENT

The Town of Mattawa New Reservoir and Related Waterworks Project is being undertaken as a Schedule B Project in accordance with the Municipal Engineers Association Municipal Class Environmental Assessment process for existing facilities under the “streamlining” provided for in the Environmental Assessment Act as amended 2022.

A Schedule B Municipal Class Environmental Assessment requires

- A Project File to be maintained showing traceability of actions and decisions
- Mandatory Agency consultation
- Mandatory Public Meeting
- Notice of Project Commencement
- Notice of Project Completion
- 30 day Review Period

The Schedule B Project File for the New Water Storage Reservoir and Related Waterworks Undertaking will be maintained at

Town of Mattawa Municipal Office
160 Water Street
Mattawa, Ontario

8.0 NOTICE OF STUDY COMMENCEMENT/PUBLIC MEETING (PIC)

A Notice of Study Commencement and Public Information Meeting has been provided twice in the Mattawa Recorder and posted on the Town of Mattawa website www.mattawa.ca as per Figure 2 hereto.

A Public Information Center (PIC) was held Saturday, June 20, 2026.

Figure 2
Notice of Study Commencement and Public Information Center



THE CORPORATION OF THE TOWN OF MATTAWA
SCHEDULE B CLASS ENVIRONMENTAL ASSESSMENT
CONSTRUCTION OF A NEW
WATER STORAGE RESERVOIR
AND RELATED WATER SYSTEM IMPROVEMENTS
IN THE TOWN OF MATTAWA

NOTICE OF STUDY COMMENCEMENT & PUBLIC INFORMATION CENTER

The Town of Mattawa is currently pursuing an initiative to construct a new Water Storage Reservoir in the Dorion Road/Bélanger Road area to replace the existing reservoir which was constructed in 1949 and is undersized and at risk of failure. The proposed project will also include certain improvements to the water distribution system which will improve water supply and fire protection throughout the Town of Mattawa.

The project is being planned as **Schedule B** of the **Municipal Class Environmental Assessment process**. Public and review agency input and comments are invited for incorporation into the planning and design of this project. A Public Information Center is planned to provide further information to the public on the proposal and to receive input and comment from interested persons:

Public Information Center (Open House format)

Date: June 20, 2026

Time: 1:00 PM to 3:00 PM

Location: Town of Mattawa Municipal Office

160 Water Street, Mattawa, Ontario

Telephone: 705-744-5611

www.mattawa.ca

Subject to comments received and the receipt of necessary approvals the Town of Mattawa intends to proceed with implementation of this project.

For further information on this project or to provide your comments in writing, please contact

Mr. Paul Laperriere, CPA/CA

CAO/Treasurer

Town of Mattawa

160 Water Street, Mattawa, Ontario P0H 1V0

Telephone: 705-744-5611

e-mail: cao@mattawa.ca

or

Mr. James Hunton, BES, MCIP

Senior Vice President

Jp2g Consultants Inc.

Engineers · Planners · Project Managers

12 International Drive, Pembroke, Ontario K8A 6W5

Telephone: 613-735-2507, Ext. 122

e-mail: james.hunton@jp2g.com

This Notice issued May 6, 2026

Paul Laperriere, CPA/CA

CAO/Treasurer

Town of Mattawa

9.0 NOTICE OF STUDY COMPLETION

Subsequent to the Public Meeting (PIC) and public input received through the Schedule B Environmental Assessment consultation process and subject to securing funding, the Town of Mattawa will finalize design drawings, construction specifications and related documents for the construction of a new Water Storage Reservoir and related watermain improvements.

For Schedule B Environmental Assessment projects, a person or party with a concern should bring it to the attention of the Town during the Environmental Assessment planning process. If a concern is not resolved through discussions, the person or party raising the objection may request the proponent to voluntarily elevate the environmental assessment process.

A Notice of Study Completion will be issued on completion of the Environmental Assessment.

If the proponent declines to elevate the Assessment Schedule and the person or party with the concern wishes to pursue the matter, they may write to the Minister of the Environment and request a Part II Order. These requests shall be copied to the proponent at the same time that they are submitted to the Minister.

Contact: Minister of the Environment
Office of the Minister
777 Bay Street, 5th Floor
Toronto, Ontario M4A 2J3

For Schedule B projects, a Part II Order request form must be submitted to the Minister within the 30 calendar day review period after the Notice of Completion has been posted; which will include information on the request process.

Requests made or received after the 30 calendar day review period subsequent to Notice of Completion will not be considered.

The Notice of Completion will provide an additional 30 day period to receive comments and will clearly set out how to communicate concerns or objections.

A request to the Minister must be in writing and must address the following issues as they relate to the identified concerns:

- environmental impacts of the project and their significance
- the adequacy of the planning process
- the availability of other alternatives to the project
- the adequacy of the public consultation program and the opportunities for public participation
- the involvement of the person or party in the planning of the project
- the nature of the specific concerns which remain unresolved
- details of any discussions held between the person or party and the proponent
- the benefits of requiring the proponent to undertake an individual environmental assessment
- any other important matters considered relevant

Requests which are clearly made with the intent of delaying project planning and implementation, or which do not contain a reasonable amount of information, may be denied by the Minister on the basis of being unsubstantiated.

**Figure 3
Draft Notice of Study Completion**



**THE CORPORATION OF THE TOWN OF MATTAWA
SCHEDULE B CLASS ENVIRONMENTAL ASSESSMENT
FOR
CONSTRUCTION OF A NEW
WATER STORAGE RESERVOIR
AND RELATED WATER SYSTEM IMPROVEMENTS
IN THE TOWN OF MATTAWA
NOTICE OF STUDY COMPLETION**

The Corporation of the Town of Mattawa has completed a Municipal Class Environmental Assessment Schedule B to determine the preferred approach to construction of a new Water Storage Reservoir and Related Waterworks Improvements.

The proposed project will be implemented in phases using a combination of Town Forces, Supplier Input and Tender Contract Call. In accordance with the requirements of the Class EA process the Study Report documenting the planning and evaluation process was approved by Council.

This Notice Report has been placed on the Public Record for a sixty (60) day review period beginning July 18, 2026 and ending September 15, 2026 in accordance with the requirements of the Class EA and the Health and Safety Water Program (HSWS). The report is available for viewing in person during normal business hours at

Town of Mattawa Municipal Office
160 Water Street, Mattawa, Ontario P0H 1V0
Telephone: 705-744-5611
or on line at www.mattawa.ca

Subject to comments received and the receipt of necessary approvals, the Town of Mattawa intends to proceed with the implementation of this project.

For further information on this project or to provide your comments in writing, please contact

Mr. Paul Laperriere
CAO/Treasurer
Town of Mattawa
160 Water Street, Mattawa, Ontario P0H 1V0
Telephone: 705-744-5611
e-mail: cao@mattawa.ca
or
Mr. James Hunton, BES, MCIP, RPP
Senior Vice President
Jp2g Consultants Inc. Engineers · Planners · Project Managers
12 International Drive, Pembroke, Ontario K8A 6W5
Telephone: 613-735-2507, Ext. 122
e-mail: james.hunton@jp2g.com

If there are outstanding concerns that cannot be resolved in discussion with the Municipality or concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, a request for an order requiring a higher level of study or conditions on those matters should be addressed in writing to the Minister of the Environment and the Director of the Environmental Assessment Branch within thirty (30) days of issuance of notice. Reasons must be provided. Requests should include the requester's contact information and full name for the Ministry. The request should be sent in writing or by e-mail to:

Minister of the Environment, Conservation and Parks
Ministry of the Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario M7A 2J3
minister.mecp@ontario.ca

Director, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto Ontario M4V 1P5
EABDirector@ontario.ca

For further information regarding Municipal Class EA and Part II Order Requests: <https://www.ontario.ca/page/class-environmental-assessments-part-ii-order>

This Notice is issued July 18, 2026

Paul Laperriere, CPA/CA
CAO/Treasurer
Town of Mattawa

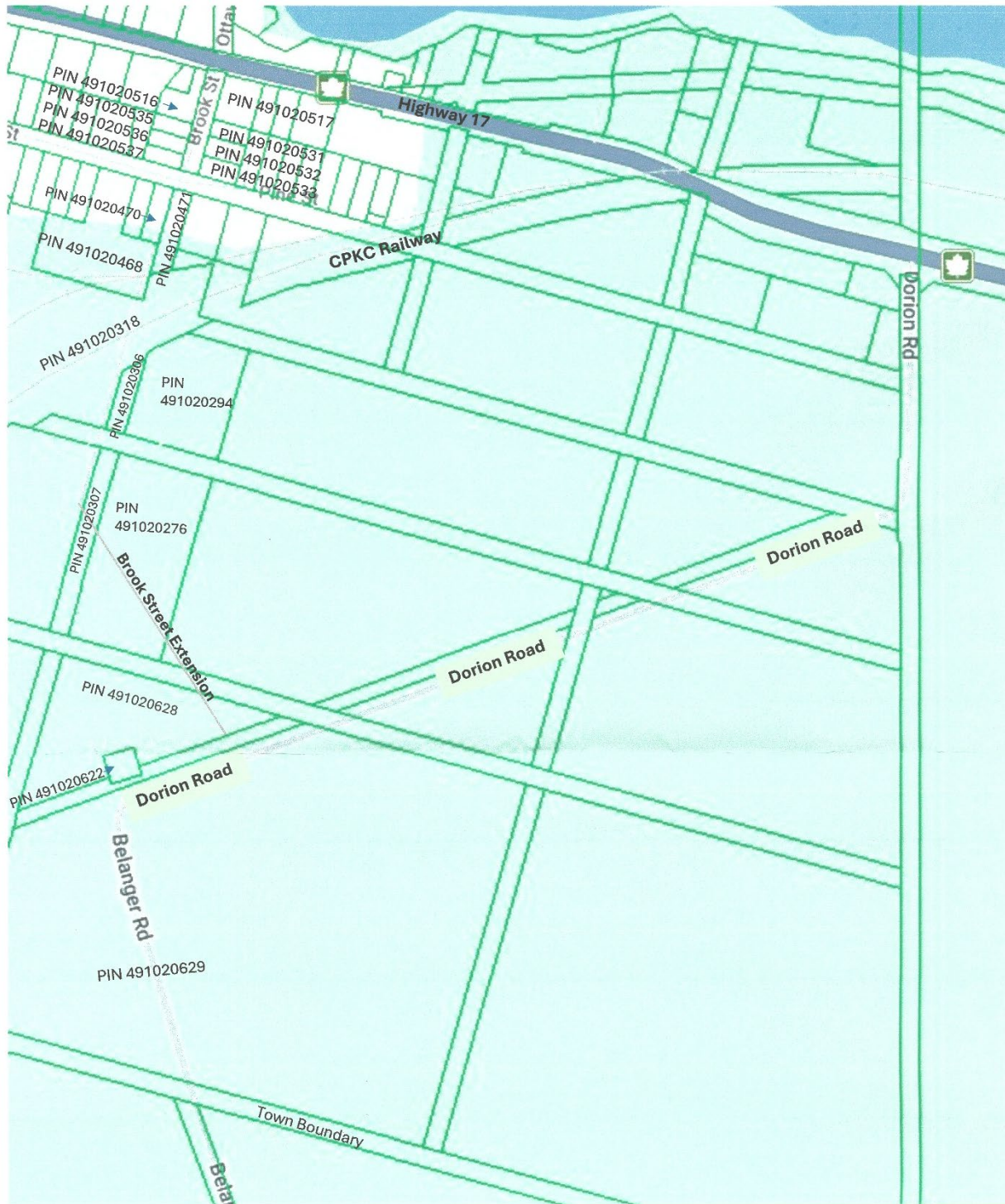
10.0 PUBLIC CONSULTATION

Private property owners adjacent to the proposed Brook Street/Dorion Road/Bélanger Road Municipal Land Bank project area will be notified as to both project commencement and project completion individually by regular mail.

Public Notice will be placed in the Mattawa Recorder and posted on the Town of Mattawa website.

A GeoWarehouse Property Index to determine property ownership along Brook Street and Dorion Road and Bélanger Road is attached hereto as Figure 4.

Figure 4
GeoWarehouse Property Index



11.0 ABORIGINAL CONSULTATION

The proposed undertaking is located in Algonquin Traditional Territory; which is currently under Algonquin Land Claim Treaty Negotiations between the Algonquins of Ontario, the Government of Canada and the Province of Ontario.

The Aboriginal contact list for this Municipal Class Environmental Assessment is summarized in Figure 5.

**Figure 5
New Water Storage Reservoir and Related Waterworks
Aboriginal Contact List**

Agency	Contact/Title	Telephone/e-mail
Algonquins of Ontario Consultation Office 31 Riverside Drive, Suite 101 Pembroke, Ontario K8A 6W4	Jim Meness Executive Director	613-219-6219 jmeness@tanakiwin.com
Algonquins of Pikwàkanagàn 1657 Mishomis Inamo Pikwàkanagàn, Ontario K0J 1X0	Chief Greg Sarazin	613-625-2800 chiefsarazin@pikwakanagan.ca
Mattawa North Bay Algonquin First Nation 318 Main Street P.O. Box 1330 Mattawa, Ontario P0H 1V0	Chief Clifford Bastien Jr.	705-744-3361 clifford.bastien@sympatico.ca
Antoine Algonquin First Nation Hwy. 17 East, 45 Labelle Road, Box 420, Mattawa, Ontario P0H 1V0	Chief Davie Joannis	705-744-5695 chiefjoannis@rogers.com
Kebaowek First Nation 110 Ogima Street Kebaowek, Quebec J0Z 3R1 Land Management (Mattawa Office) 364 Main Street Mattawa, Ontario P0H 1V0	Jackie Drouin Land Management Administrator Logan Hamond Land Management Technician	819-627-3455 Ext. 229 jdrouin@kebaowek.ca 705-744-6367 logan.hamond@kebaowek.ca
Metis Nation of Ontario 380 Main Street, Unit 1 Mattawa, Ontario P0H 1V0	Nelson Canoe	705-744-2225 nelsoncanoe@hotmail.com

The Aboriginal Consultation Plan for this project is attached hereto as Appendix B.

Copies of correspondence regarding Aboriginal Consultation is provided in Correspondence Binder/Record of Activities filed at the Town of Mattawa Municipal Office as part of the Project File.

12.0 AGENCY CONSULTATION

A Municipal Class Environmental Assessment Schedule B has certain mandatory requirements for agency circulation.

The Town of Mattawa has supplemented the mandatory list in order to include all potential agency “stakeholders” that may have an interest in this matter.

A summary of agency contacts notified as part of this Municipal Class Environmental Assessment Schedule B is provided in Figure 6.

**Figure 6
New Reservoir and Related Waterworks
Agency Contact List**

Agency	Contact/Title	Telephone/e-mail
Vic Fedeli, MPP Constituency Office 219 Main St. E North Bay, Ontario P1B 1B2	MPP	705-474-8340 Vic.Fedelico@pc.ola.org
Pauline Rochefort, MP 375 Main Street West North Bay, Ontario P1B 2T9	MP	705-474-6155 pauline.rochefort@parl.gc.ca
Township of Papineau-Cameron 4861 Highway 17 West P.O. Box 630 Mattawa, Ontario P0H 1V0	Mayor & Council	705-744-5610 clerk@papineaucameron.ca
Ministry of Environment, Conservation and Parks Environmental Assessment & Approvals Branch 135 St. Clair Avenue West, 1 st Floor Toronto, Ontario M4V 1P5	Director, Environmental Assessment Branch	enviropmission@ontario.ca
Ministry of Environment, Conservation and Parks Regional EA Coordinator 199 Larch Street, Suite 1201 Sudbury, Ontario P3E 5P9	Regional EA Coordinator	705-564-3237
Ministry of Natural Resources & Forestry North Bay District Office 875 Gormanville Road North Bay, Ontario P1B 9S9		705-475-5550
Ministry of Municipal Affairs & Housing Northeastern Municipal Services Suite 401, 159 Cedar Street Sudbury, Ontario P3E 6A9		
Ministry of Agriculture, Food & Rural Affairs Rural Programs Branch 1 Stone Road West, 4 th Floor NW Guelph, Ontario N1G 4Y2	Director Rural Programs Branch	
Ministry of Transportation Northeastern Region Ontario Government Building 447 McKeown Avenue North Bay, Ontario P1B 9S9	Herb Villneff Regional Director Kristin Franks, Manager Regional Services & Relationships Melissa Rodgers-Wilke Regional Operations Manager Sean Pannabecker Corridor Management Officer	705-497-5500 herb.villneff@ontario.ca 705-825-2223 kristin.franks@ontario.ca 705-491-5427 melissa.rodgers@ontario.ca 705-491-2902 sean.pannabecker@ontario.ca

Agency	Contact/Title	Telephone/e-mail
Ministry of Energy and Mines North Bay and Area 447 McKeown Avenue, Suite 203 North Bay, Ontario P1B 8S9	Growth Plan for Northern Ontario	705-670-5619
FedNor – Industry Canada 107 Shirreff Avenue, Suite 202 North Bay, Ontario P1B 7K8	Initiatives Officer	705-494-4221
Ministry of Infrastructure Intergovernmental Policy Branch 777 Bay Street, 4 th Floor, Suite 425 Toronto, Ontario M5G 2E5	Director, Intergovernmental Branch	1-877-424-1300
Ontario Provincial Police 867 Gormanville Road North Bay, Ontario P1B 8G3	Detachment Commander	705-744-5503
Ontario Provincial Police Mattawa Detachment 520 Highway 17 Mattawa, Ontario P0H 1V0		1-888-310-1127
Ontario Clean Water Agency 26 Main Street Callander, Ontario P0H 1Z0	Paul Dryda Senior Operations Manager	pdryda.@ocwa.ca 705-303-9767
Ontario Clean Water Agency Northeastern Ontario Hub 400 Bissett Street Mattawa, Ontario P0H 1V0	Josh DeWall, Operator	705-471-5084
Mattawa Fire Department 411 Pine Street, P.O. Box 390 Mattawa, Ontario P0H 1V0	Fire Chief Shawn Hungell	705-471-6861 705-744-5611, Ext. 151 firechief@mattawafiredepartment.ca
Mattawa Hospital 217 Turcotte Park Road, P.O. Box 270 Mattawa, Ontario P0H 1V0	President and CEO Tanya Bélanger	705-744-5511
St. Victor Elementary School 800 John Street West Mattawa, Ontario P0H 1V0	Superintendent	705-744-5860
Mattawa District Public School 376 Park Street Mattawa, Ontario P0H 1V0	Superintendent	705-472-5241
F. J. McElligott Secondary School 370 Pine Street Mattawa, Ontario P0H 1V0	Superintendent	705-472-5720
Ecole Secondaire Catholique Elisabeth-Bruyer 359 Brydges Street Mattawa, Ontario P0H 1V0	Superintendent	705-744-5505

Agency	Contact/Title	Telephone/e-mail
Near North District School Board 963 Airport Road, P.O. Box 3110 North Bay, Ontario P1B 8H1	Superintendent of Business	705-472-8170
Nipissing-Parry Sound Catholic District School Board 1000 High Street North Bay, Ontario P1B 6S6	Superintendent of Business	
Hydro One Networks Inc. 500 Barrydowne Road Sudbury, Ontario P3A 3T3	Lines Customer Support Clerk – Projects, Northern Region	Marnie.Dawson@HydroOne.com 705-566-8955 Ext. 2318
Bell Seamless Access Network 5099 Creekbank Road Mississauga, Ontario L4W 5N2	Matthew Milligan, MCIP, RPP Senior Advisor, Real Estate and Government Relations	matthew.milligan@bell.ca 905-282-2778 Office 416-402-1169 Mobile
Bell Canada 250 McIntyre Street West, Floor 3 North Bay, Ontario P1B 2Y7	Network Specialist Terry Hurd	705-474-6063 706-840-3658 terry.hurd@bell.ca
Enbridge Gas 36 Charles Street East North Bay, Ontario P1A 1E9		705-474-8480
Otto Holden Dam Ontario Power Generation Head Office 1908 Colonel Sam Drive Oshawa, Ontario L1H 8P7	Jennifer Gardiner Stakeholder Relations	613-601-0654
Genesee & Wyoming Canada Inc. 9001, boulevard de l'Acadie, suite 600 Montreal, Quebec H4N 3H5	Sylvain Larivee Services d'Ingenierie/ Engineering Services	sylvain.larivee@gwrr.com 514-773-0385
Canadian Pacific Kansas City Railway CPKCR Engineering Projects & Public Work 7251 Trafalgar Road, RR1 Hornby, Ontario L0P 1E0	Nafey Gill, P. Eng. Manager Public Works – Canada East	nafey.gill@cpkcr.com 416-712-0752
Canadian Pacific Kansas City Railway CPKCR	Andre Hannoush Director, Government Affairs	438-874-3068 andre.hannoush@cpkcr.ca

13.0 RECOMMENDED DESIGN CRITERIA

The previous engineering studies noted herein including the 2024 hydraulic analysis carried out in conjunction with the environmental assessment contemplates the following design criteria

Design Population: 3,000
Proposed Reservoir Capacity: 500,000 Imperial Gallons
Top of Water Elevation: 233.65 GDC
Target Water Pressure: 45 to 85 psi
Fire Flow 100 to 110 L/sec (MOE)

Figure 7
Mattawa Water Supply and Distribution
Storage Requirements (Preliminary)*

		Current Conditions	Future Design Conditions
Service Population		2,000	3,000
Estimated Average Day Demand per Capita	L/day	634	600*
Average Day Demand	m ³ /day	1,286	1,500
Maximum Day Factor		2.25	2.25
Maximum Day	m ³ /day	2,894	3,375
Peak Hour Factor (per MOE Guidelines)		3.75	3.38
Peak Hour Demand	m ³ /day	4,823	5,070
Fire Flow Requirements (per MOE)	L/sec	95	100
System Pressure Requirements Maximum Day			
Minimum during peak hour	kPa	275	275
Minimum during fire flow conditions	kPa	140	140
A. Required Fire Storage	m ³	684	720
B. Equalization Storage	m ³	724	844
C. Emergency Storage	m ³	352	391
Total Storage Required	m ³	1,760	2,304 m ³ say 500,000 lgal
Actual Storage	m ³	681 m ³	681 m ³

* NOTE: These numbers are subject to adjustment as additional information becomes available as to the nature and extent of ICI and Residential development. Lower future average day per capita assumes water system improvements as recommended herein to reduce water losses to system.

With the Town of Mattawa Water Treatment Plant capacity sized to meet a minimum of Maximum Day Demand then MOE states that the required Water Storage facility can be calculated as follows:

$$\text{Total Storage} = A + B + C$$

Where

A = Fire Storage (Based on Table 8.1 MOE Design Guidelines for Drinking Water Systems)

B = Equalization Storage (25% of Maximum Day Demand)

C = Emergency Storage (25% of A + B)

**Figure 8
Water Storage Requirements per
Ontario Drinking Water Guidelines (ODWG)
MOECC Design Guidelines**

$$\text{Total Water Storage Requirement (TWS)} = A + B + C$$

$$\text{Existing Reservoir Operational Storage} = 150,000 \text{ Igal}$$

A = Fire Storage

B = 25% of Max. Day Demand

C = 25% of A + B

A = Table 8-1 ODWGL for population 3,000 = 100 l/s for 2 hr

$$A = 100 \text{ l/s} \times 2 \text{ hr} \times 3,600 \text{ s/hr} = 792,000 \text{ l} = 792 \text{ m}^3 = 174,215.6 \text{ Igal}$$

B = Max. Day Demand

B = max day x peaking factor (Table 8-2 ODWGL, pop. 2001 – 3000) x 0.25

$$B = 8 \text{ l/s} \times 2.25 \times 24 \text{ hr} \times 3,600 \text{ s/hr} \times 0.25 = 388,800 \text{ l} = 388.8 \text{ m}^3 = 85,524.04 \text{ Igal}$$

C = 25% of A + B

$$C = 0.25 (792 + 388.8) = 295.2 \text{ m}^3 = 64,934.92 \text{ Igal}$$

TWS = A + B + C

$$\text{TWS} = 792 \text{ m}^3 + 388.8 \text{ m}^3 + 295.2 \text{ m}^3 = 1,476 \text{ m}^3 = 324,674.6 \text{ Igal}$$

$$\text{Existing Storage (ES)} = 681 \text{ m}^3$$

$$\text{New Storage required} = 2304 \text{ m}^3/500,000 \text{ Igal}$$

14.0 ALTERNATIVE SOLUTIONS

Alternative 1 Complete Water Transmission Grid as per Proctor & Redfern Water Supply Study 1994

The Town of Mattawa Water Supply Trunk Main Transmission Grid is shown on Map C hereto.

Figure 9 hereto summarizes Proctor & Redfern original (1994) recommendation for trunk watermain grid improvements and current (2024) status.

Figure 9
Water Transmission (Trunk) System Improvements as per
Proctor & Redfern Recommendations 1994 and
Current (2024) Status

The following trunk watermains were recommended in Proctor & Redfern's 1994 study.

ORIGINAL 1994 RECOMMENDATION	STATUS 2024
1. 300 mm (12") dia. watermain on Bissett from the pump house to Main Street (Node 1 to 7)	250 mm (10") dia. constructed 1993/94
2. 300 mm (12") dia. watermain on Bissett from the pump house to Fifth Street (Node 1 to 2)	300 mm (12") dia. constructed from pump house to Mattawa Conservation Island circa 1990
3. 300 mm (12") dia. watermain across the Mattawa River (Node 2 to 3)	300 mm (12") and 380 mm (15") dia. constructed circa 1990 from Mattawa Conservation Island across Mattawa River Node 1 to Hurdman Street
4. 250 mm (10") dia. watermain on Park Street from Mattawa Street to Highway 17 (Node 3 to 4)	150 mm (6") dia. constructed on Park Street from Mattawan Street to Highway 17 Node 3 to 4
5. 250 mm (10") watermain on Park and Brook Street [Park Street to Brook Street to Highway 17] (Node 4 to 6) See Note 2.	150 mm (6") dia. constructed on McCool, Hurdman and Poplar Street but the Node 4 to 6 looping of Park Street and Brook Street to Hwy. 17 has not been completed

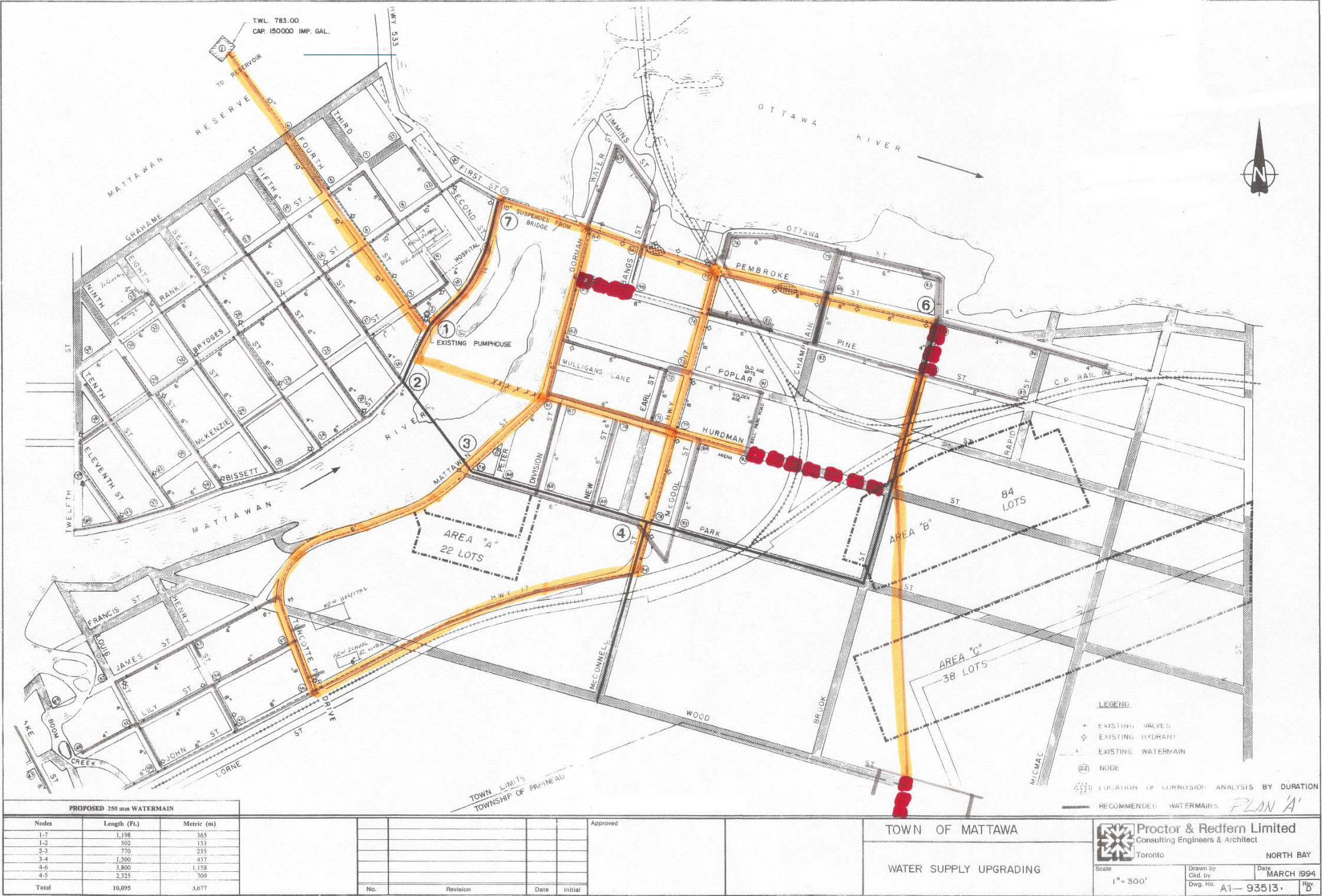
RECOMMENDATION:

CONSIDERATION SHOULD BE GIVEN TO COMPLETING THE TOWN OF MATTAWA WATER TRANSMISSION TRUNK WATERMAIN SYSTEM AS FUNDS BECOME AVAILABLE.

The Park Street transmission main loop was recommended by Proctor & Redfern in order to complete a 250 mm (10") dia. trunk main grid for the east side of the Mattawa River. This has been substantially completed albeit at 150 mm (6") dia.; but there is still work to be done to complete a water transmission main grid on unopened Park Street road allowance from McCool Street/CPCKR Tracks to Brook Street and on Brook Street from Poplar Street/CPCKR Tracks to Highway 17 as per Proctor & Redfern Report 1994; as well as the Town of Mattawa Asset Management Plan Update (2020). Extension of the transmission main through the Mattawa Train Yard will require the cooperation and approval of CPKC Rail and Ottawa Valley Rail and is considered to be a major impediment to this alternative.

Optional approaches to completing a Trunk Watermain System on the east side of the Mattawa River will have to be considered.

MAP C
TOWN OF MATTAWA
WATER SUPPLY TRANSMISSION GRID



Alternative 2 Upgrade/Expand Existing Water Storage Reservoir

The existing water reservoir is located on Crown Land (Mattawa Reserve) west of the Mattawa River. It was constructed as an in-ground concrete structure 75' x 30' x 14.5' in 1949 and has an operational capacity of 700 m³ (153,178 Igal) which is substantially smaller than MOE guidelines for the existing Town of Mattawa population of 2,000.

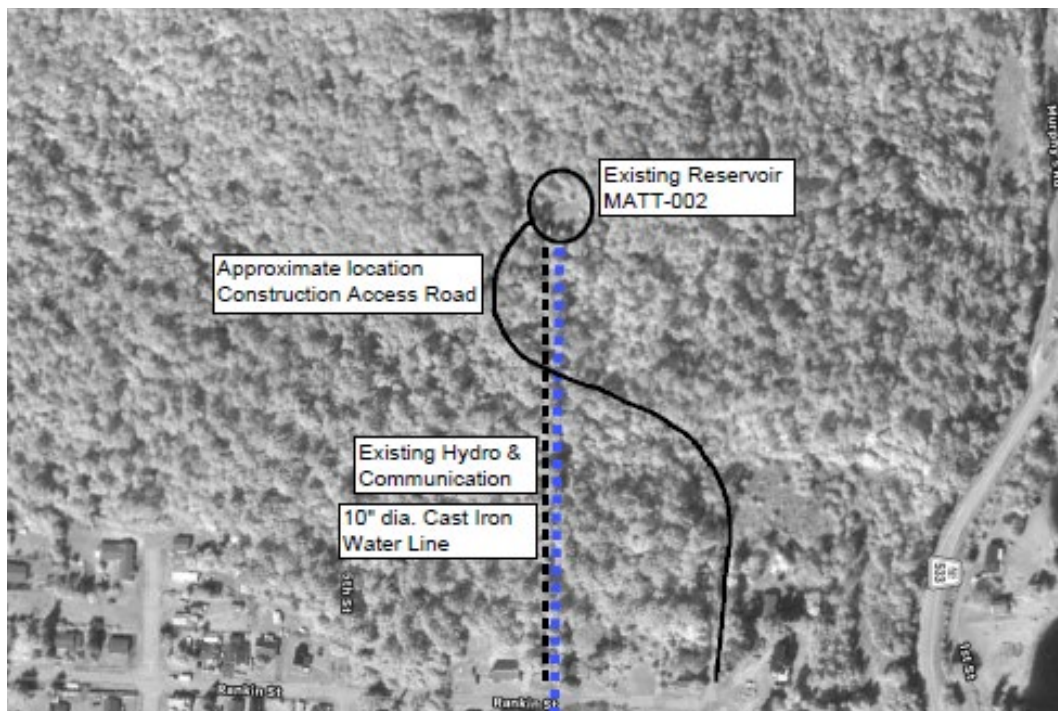
Existing photo and location is shown on Figure 10 and 11 hereto.

The major impediments to improving and expanding the existing reservoir are the risks associated **firstly** with the existing 250 mm (10") dia. feeder line which was constructed in 1949 and **secondly**, the significant difficulty associated with vehicular access to the existing reservoir structure and the existing feeder line.

Figure 10
Photo of Existing Reservoir



Figure 11
Location of Existing Reservoir



Alternative 3 Increase Water Treatment Plant Supply, Plant Pump Capacity and Storage

The Town of Mattawa is supplied with potable water from two (2) groundwater supply wells located within a Water Treatment Plant located on the west shore of the Mattawa River at the intersection of Bissett Street and 4th Street as shown on Figure 12 and 13 hereto.

A report on the existing water supply/production wells completed by Golder Associates May 1994 indicated a concern with the age of both water supply wells and reported declining well capacity.

The rated capacity of the existing WTP under Municipal Drinking Water Licence 195-101 is 9,540 m³/day. Information on the 2 existing supply wells is summarized as follows. The system Permit to Take Water #1546 – 9GHPLM allows the Municipality to draw 4,582.08 m³ for Well #1 and 1,964.16 m³ for Well #2.

Day Well #1 originally installed 1958 and replaced in 2011 being 600 mm (26”) dia. 18.9 meters (61.75 ft) deep pumping 44 liters per second (583 lgal per minute). Source: Groundwater Supply Evaluation by Golder Associates March 1994, Page 8. Well #1 is now equipped with a vertical turbine pump capable of delivering 53 L/sec at 105.8 meters of total dynamic head.

Night Well #2 installed 1949 and replaced in 2018, being 560 mm (22”) dia. 19.2 meters (63 ft) deep pumping 22.7 liters per second (300 lgal per minute). Source: Groundwater Supply Evaluation by Golder Associates March 1994, Page 8.

The pump for Well #2 was inspected in 2016 and it was determined to be beyond further repair. It was replaced in 2018 with a pump having 25 liters per second (329.95 lgal per minute) capacity.

The water supply pumps operate in tandem to provide Town of Mattawa domestic water supply and fire protection with Pump #1 Day Pump operating from 6:00 AM to 12:00 PM and Pump #2 Night Pump operating from 12:00 PM to 6:00 AM. There is a short transition period when both pumps are running to avoid shutdown of the ultra-violet system.

Approximately 1,050 homes and businesses in the Town of Mattawa are served by the Municipal Water System.

The 1994 Water Supply Study recommended that the total maximum day production capability of the Town of Mattawa Water Treatment Plant should be increased by 45 liters per second (600 lgal per minute) in order to meet MOE Guidelines of 113 liters per second (1,500 lgal per minute) to meet domestic fire flow demands. Source: Groundwater Supply Evaluation by Golder Associates March 1994, Page 23. ***(The reported pumping rate of Well #1 was 44 liters per second (583 lgal per minute) now 53.0 liters per second and Well #2 was 22.7 liters per second (300 lgal per minute). Total 66 liters per second (883 lgal per minute).***

**Figure 12
Photo of Existing Water Treatment Plant**



The Ontario Clean Water Agency (OCWA) has operational responsibility for the Town of Mattawa Water Treatment Plant and Water Distribution System and in this capacity have initiated a program of on-going improvements to the Water Treatment Plant including

- Replacement of Chlorination System
- Improvements to Pump #1 and #2

OCWA is coordinating with Jp2g Consultants Inc. to identify potential improvements to water supply capability, eg: a new Supply Well #3.

Figure 13
Town of Mattawa
Existing Water Treatment Plant Location



Alternative 4 Provide New 350,000 to 500,000 Imperial Gallon Storage Facility

All engineering analysis carried out since 1992 have identified the need for a new Water Storage Facility for the Town of Mattawa.

In our capacity as Engineers of Record for the Town of Mattawa and based on our work carried out in 2018 under the Town of Mattawa Preliminary Water System Analysis including a Condition Review of the existing Water Storage Reservoir and WaterCAD computer simulation, an updated analysis of risks and operational constraints was carried out for the Environmental Assessment.

Jp2g Consultants Inc. recommends the existing reservoir and associated feedermain be replaced with a new 350,000 to 500,000 Igal storage reservoir to be located in the Municipal Land Bank on the east side of the Mattawa River.

There are three options for water storage as illustrated in Figure 14.

Ground Level Storage at 500,000 Igal capacity is the preferred alternative based on our preliminary engineering analysis including costs and constructability.

**Figure 14
Water Reservoir Storage Options**

Elevated Tank



In-Ground Storage



Ground Level Storage Facility



There were three (3) location options considered for the proposed water storage reservoir on Municipal property within the Municipal Land Bank Area #1 as shown on Map D hereto.

An assessment of three reservoir location alternatives is provided in Figure 15.

MAP D NEW RESERVOIR LOCATION OPTIONS 1, 2 AND 3

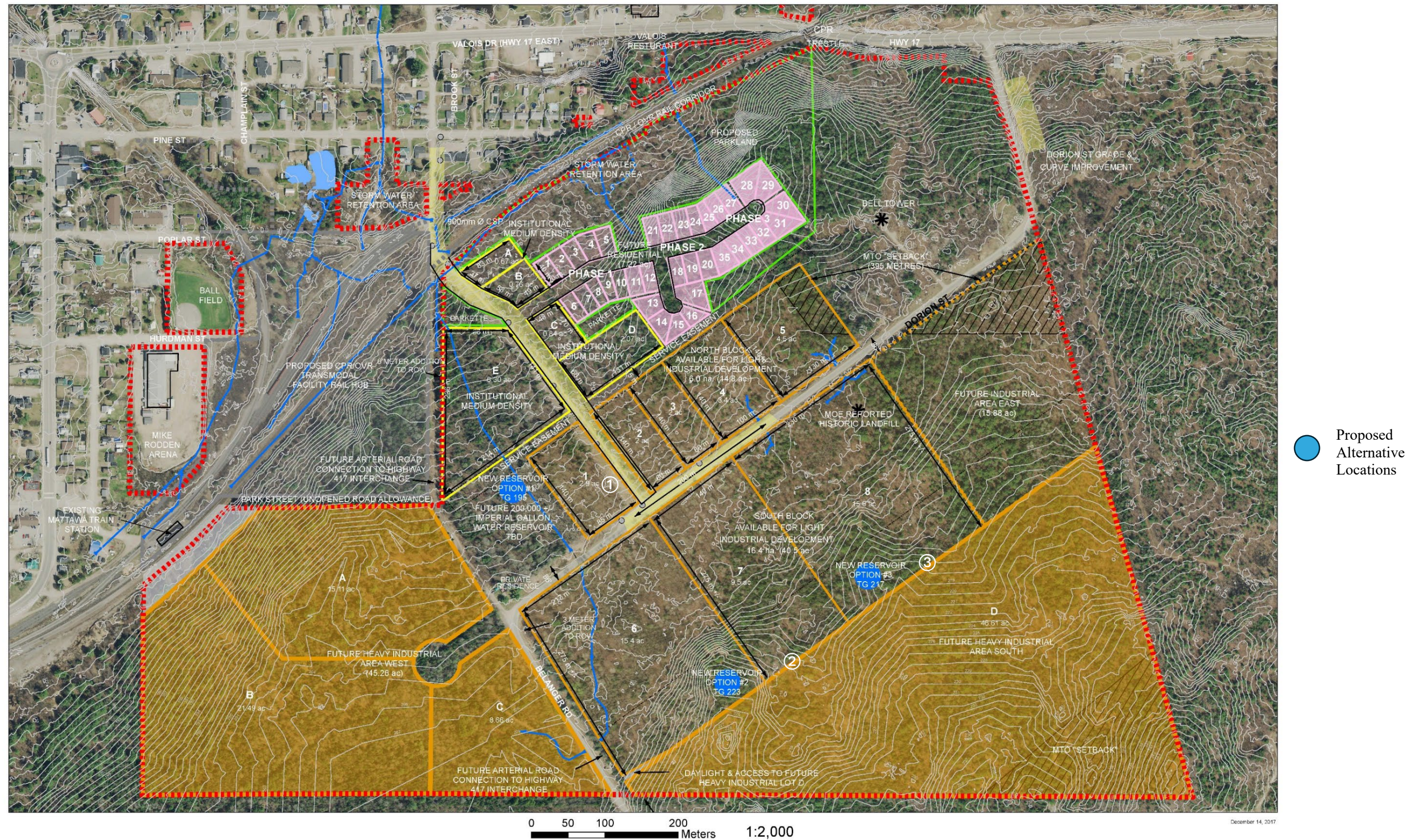


Figure 15
Assessment of Location Alternatives for Water Storage Reservoir

	LOCATION	ELEVATION	ACCESS	SECURITY	COST TO SERVICE	SOILS	IMPACT ON ENVIRONMENT	IMPACT ON FUTURE DEVELOPMENT	SCORE
OPTION 1	100 meters north of Dorion Road and 125 meters west of Brook Street Extension								11
OPTION 2	275 meters south of Dorion Road and 200 meters west of Bélanger Road adjacent to Lot 6 Light Industrial Park								19
OPTION 3	275 meters south of Dorion Road in Lot 8 of the Light Industrial Park								15

LEGEND:

-  = 1 Unsatisfactory
-  = 2 Satisfactory
-  = 3 Best

BASED ON THE PLANNING AND ENGINEERING ANALYSIS CARRIED OUT FOR THIS ENVIRONMENTAL ASSESSMENT, JP2G CONSULTANTS INC. RECOMMENDS THE PREFERRED LOCATION FOR THE NEW WATER STORAGE RESERVOIR BE OPTION 2 LOCATED 275 METERS ± SOUTH OF DORION ROAD AND 200 METERS ± WEST OF BÉLANGER ROAD.

Alternative 5 Improve Water Distribution System as per Jp2g Consultants Inc. Core Asset Management Plan (2022) and Housing Enabling Water System Fund Application (2024)

Based on work carried out for this Environmental Assessment including WaterCAD computer simulation (see Map E) the following project components for the construction of a new reservoir and related water system components have been identified as requirements for improvements to domestic water supply and fire protection at Municipal Land Bank Area and the Town of Mattawa Municipal Water Supply and Distribution System. See Figure 16 and Map E.

Key elevations used in the computer simulation were:

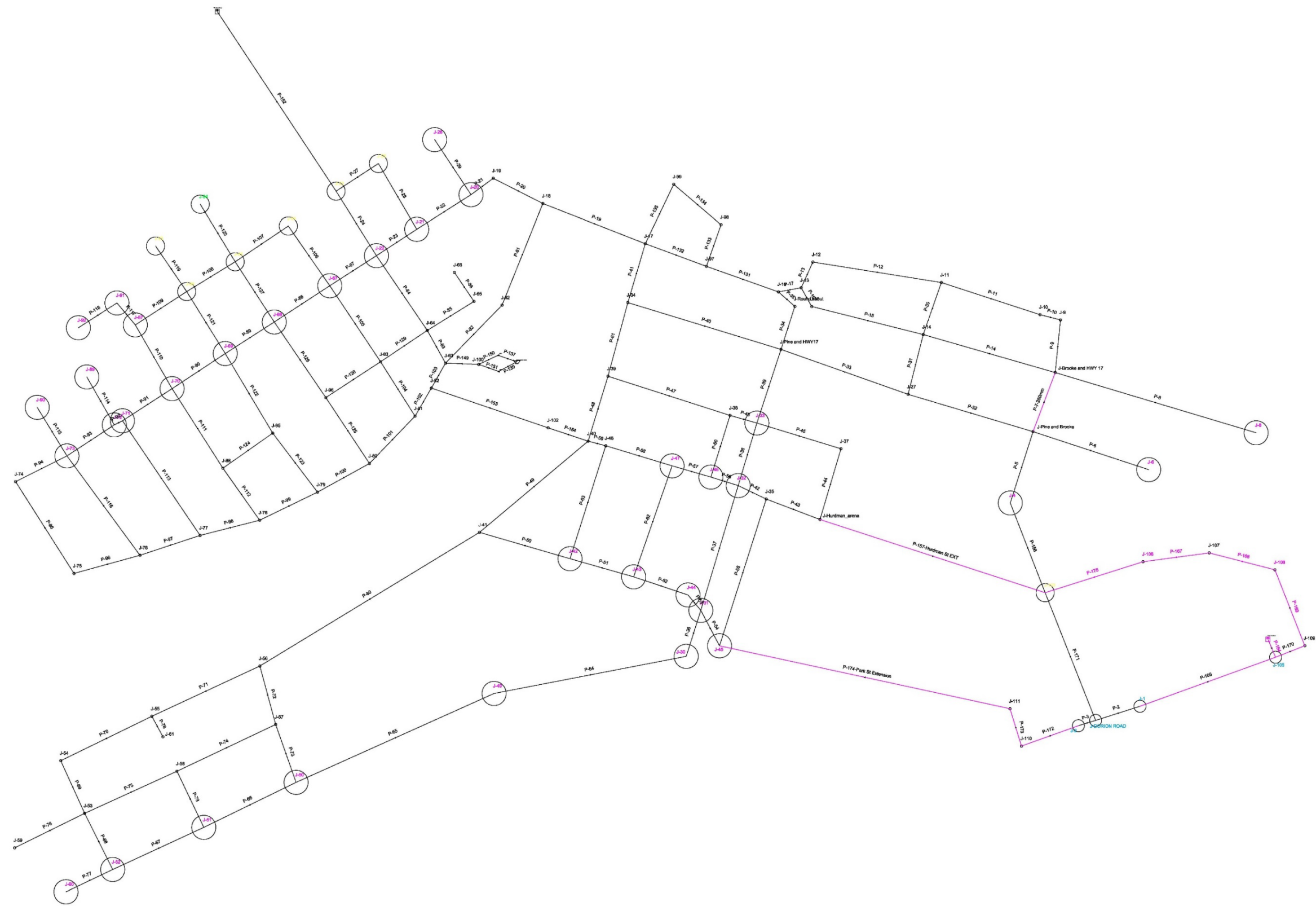
- Existing Water Treatment Plant 157 GSC
- Existing in ground Reservoir (west side of Mattawa River)
 - Top of Water 232 GSC
 - Bottom Slab 223.5 GSC
- Proposed Reservoir (east side of Mattawa River)
 - Top of Water 233.65 GSC
 - Ground Elevation 226 GSC
- Brook Street/Pine Street Intersection 159 GSC
- Dorion Road 201 to 205 GSC

Based on the WaterCAD computer analysis carried out for this study it is recommended that the water storage be comprised of two (2) separate ground level storage tanks each with a capacity of approximately 1,152 m³/250,000 Imperial Gallons in order to provide redundancy and operational efficiency.

Figure 16
Town of Mattawa
New Reservoir and Related Waterworks Improvements
Potential Project Components

Construct 250 mm (10") dia. Watermain on Brook Street from Highway 17 to Pine Street (132 m)
Extend 250 mm dia. Watermain Pine Street from Fire Hall to Highway 17 (100 meters)
Site Preparation at New Reservoir (50 m x 50 m)
- Clearing and Grubbing
- Grading and Drainage
- Aquarobic Septic System
- Security Fencing 50 m x 50 m x 2.5 m
- Security Cameras
- Site Lighting
- Back-up Power Generator
New Reservoir Tanks two (2) @ 1,152m ³ /250,000 lgal
Reservoir Concrete Base
Two (2) pads @ 15 m diameter x 1 m thick = 175 m ³ x 2 = 350 m ³
- Concrete Supply and Install 350 m ³
- Rebar Supply and Install
Reservoir Control Building Structure 100 m ² /1,076 ft ²
Reservoir Instrumentation/Process/Electrical/Communication
Project Management
Technical Studies
- Engineering Options Analysis
- Environmental Assessment
- Geotechnical
- Biophysical Survey
- Archaeological Update

MAP E
WATERCAD COMPUTER SIMULATION



15.0 PHASE 3 NET ENVIRONMENTAL EFFECTS AND POTENTIAL MITIGATION ALTERNATIVE OPTIONS 1, 2 AND 3 RESERVOIR SITES CONCEPTS

Tulloch Environmental conducted a Natural Environment Assessment in 2013 and Jp2g Consultants Inc. Biologist has conducted an updated Site Review and Species at Risk assessment of the Project Area in 2022 and 2024. No Species at Risk were identified. Site development risks are related to surface water drainage and material storage.

Certain mitigation measures to protect watercourses/drainage or to provide for rock and excess soil storage will be included in the construction specifications.

The net environmental effect of individual items related to implementation of the New Reservoir and Related Waterworks Project and potential mitigation measures for all alternatives offered for consideration in this Municipal Class Environmental Assessment are summarized in Figure 17.

**BASED ON THE ANALYSIS OF ENVIRONMENTAL EFFECTS, OPTION 2 IS THE
PREFERRED ALTERNATIVE SITE FOR THE NEW 500,000 IMPERIAL GALLON
WATER STORAGE FACILITY.**

Figure 17
Dorion Road Hill Reconstruction
Evaluation of Preliminary Design Alternatives, Net Environmental Effects and Potential Mitigation

OPERATIONAL CONSIDERATIONS	OPTION 1: Locate 100 meters ± north of Dorion Road	OPTION 2: Locate New Reservoir 275 meters ± South of Dorion Road Lot 6	OPTION 3: Locate 275 meters ± South of Dorion Road Lot 8	MITIGATION
1. Provides safe operation and security Reservoir	Moderate Negative Impact	Moderate Negative Impact	Moderate Negative Impact	Security Cameras Fencing
2. Accommodates safe pedestrian movement/cycling route	N/A	N/A	N/A	N/A
3. Emergency Measures during Construction	No impact. Existing Dorion Road would remain operational.	No impact. Existing Dorion Road would remain operational.	No impact. Existing Dorion Road would remain operational.	Incorporate Emergency Access in Construction Specifications
NATURAL ENVIRONMENT				
4. Geology and Soils	Geotechnical Investigation required.	No impact. Preliminary Geotechnical complete.	Geotechnical survey would be required.	Geotechnical Survey required
5. Existing Watercourse/Drainage	Major impact on existing watercourse (30 meter setback required)	No impact	Moderate negative impact on existing drainage system.	
6. Air Quality	No impact	No impact	No impact	
7. Impact on Wildlife Habitat	Major negative impact from clearing of existing trees.	Minimum impact. Site has been substantially cleared.	Moderate negative impact due to clearing of existing trees	
8. Breeding Birds Protection	Major negative impact due to extensive clearing of trees	Minor negative impact due to minimal clearing of trees	Major negative impact due to extensive clearing of trees	Restrict cutting operations between April 15 to August 15
SOCIO-ECONOMIC ENVIRONMENT				
9. Future Land Use Industrial/ Residential/ Institutional	Poor access limits Industrial, Residential and Institutional development north of Dorion Road	No impact	Utilizes Light Industrial Lot Moderate impact.	Update Concept Plan
10. Impact on Heritage Resources	No impact	No impact	No impact. Possible historic dump site.	
11. Impact on Aboriginal Interests	No impact	No impact	No impact	
12. Impact on Adjacent Businesses	No impact	No impact	No impact	
13. Impact on Adjacent Private Property	Existing condition. Major negative impact on adjacent residence.	No impact.	No impact.	Initiate contact with adjacent property owners directly as per EA Process.

Figure 17 (Cont'd)
Dorion Road Hill Reconstruction
Evaluation of Preliminary Design Alternatives, Net Environmental Effects and Potential Mitigation

ENVIRONMENTAL CRITERIA	OPTION 1: Locate 100 meters ± north of Dorion Road	OPTION 2: Locate New Reservoir 275 meters ± South of Dorion Road Lot 6	OPTION 3: Locate 275 meters ± South of Dorion Road Lot 8	MITIGATION
TECHNICAL CONSIDERATIONS				
14. Impact on Infrastructure and Utilities (Bell, Hydro)	Major impact due to rock, hydro and watercourse	Moderate impact	Minor impact	
15. Ability to address stormwater run-off quality and quantity from roadway	Moderate Negative Impact Existing surface water run-off problematic in Spring.	Moderate negative impact. Surface water run-off problematic in Spring	Moderate negative impact. Surface water run-off problematic in Spring	Implement Drainage Master Plan
16. Rock Excavation m³	TBD	TBD	TBD	
17. Soil Excavation	TBD	TBD	TBD	
18. Level of Service	Will not fully address current low level of service re: water pressure	Fully addresses existing and future requirements	Fully addresses existing and future requirements	
19. Noise	Major negative impact due to proximity of residence.	No impact. Existing condition.	No impact. Existing condition.	
20. Traffic Disruption during Construction	No impact. Dorion Road would remain operational.	No impact. Dorion Road would remain operational.	No impact. Dorion Road would remain operational.	
21. Tree Clearing	Major negative impact	Minor negative impact due to clearing of few trees	Moderate negative impact due to clearing of trees	
22. Operation and Maintenance Requirements	High maintenance effort	Moderate maintenance effort.	Moderate maintenance effort	
FINANCIAL CONSIDERATIONS				
23. HEWSF Construction Budget	TBD	\$5,187,500 ±	TBD	
24. Maintenance Costs	Major negative impact due to high maintenance effort.	Moderate impact	Moderate impact	

16.0 PHASE 4 RECOMMENDED PREFERRED SOLUTION AND PROJECT COMPONENTS

WITH MITIGATION MEASURES NOTED HEREIN, NET ENVIRONMENTAL EFFECT IS ANTICIPATED TO BE MINIMIZED FOR THE NEW WATER STORAGE RESERVOIR FACILITY AND RELATED WATERWORKS PROJECT AS PROPOSED.

BASED ON THE SCREENING PROCESS CARRIED OUT FOR THIS SCHEDULE B MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT INCLUDING PUBLIC, AGENCY AND ABORIGINAL CONSULTATION; AS WELL AS PRELIMINARY ENGINEERING COMPLETED TO DATE, Jp2g CONSULTANTS INC. ENGINEERS · PLANNERS · PROJECT MANAGERS RECOMMENDS THAT THE COUNCIL OF THE TOWN OF MATTAWA CONSIDER IMPLEMENTING THE FOLLOWING PROJECT COMPONENTS AS THE NEW WATER STORAGE RESERVOIR UNDERTAKING

- 1. CONSTRUCTION OF A 500,000 IGAL GROUND LEVEL WATER STORAGE FACILITY CONSISTING OF 2 TANKS HAVING 1,152 m³/250,000 IMPERIAL GALLONS CAPACITY LOCATED AT ALTERNATIVE SITE #2 APPROXIMATELY 275 METERS SOUTH OF DORION ROAD ADJACENT TO LIGHT INDUSTRIAL LOT 3 INCLUDING 250 MM (10") DIA. FEEDER LINE, SITE IMPROVEMENTS, ACCESS ROAD AND COMMUNICATION LINES**
- 2. CONSTRUCTION OF A 250 MM DIA. WATERMAIN ON BROOK STREET FROM HIGHWAY 17 TO PINE STREET**
- 3. RECOMMISSION BROOK STREET WATERMAIN PINE STREET TO DORION ROAD AND DECOMMISSION EXISTING RESERVOIR**
- 4. INSTALL FIRE HYDRANTS AND TEES ON BROOK STREET EXTENSION BETWEEN CPKCR AND DORION ROAD**
- 5. EXTEND 250 MM DIA. WATERMAIN PINE STREET FROM FIRE HALL TO HIGHWAY 17 (100 METERS)**

THE PREFERRED SOLUTION WILL PROCEED TO FINAL DESIGN AND CONSTRUCTION SUBJECT TO THE RESULTS OF THIS SCHEDULE B ENVIRONMENTAL ASSESSMENT PROCESS, INCLUDING NOTICE OF STUDY COMPLETION AS DESCRIBED HEREIN AND SUBJECT TO SECURING FUNDING.

17.0 FOLLOW UP ITEMS

The following items require consideration and action preparatory to finalizing this Municipal Class Environmental Assessment Schedule B process and completing Final Engineering Design Drawings/Specifications preparatory to implementing the new Water Storage Reservoir and Related Waterworks Project.

Figure 18
New Water Storage Reservoir and Related Waterworks
Follow up Items

Action 1	Continue to engage with Funding Agencies to determine implications and alternative approach to potential construction cost budget envelope.
Action 2	Coordinate with OCWA re: commissioning existing Brook Street watermain
Action 3	Update Stage 1 Archaeological Study Municipal Land Bank Area #1 if required
Action 4	Commission clearing and grubbing and grading contract for Option 2 Reservoir Site
Action 5	Commission Geotechnical Study Option 2 Reservoir Site
Action 6	Obtain Council resolution supporting Schedule B Project Environmental Approval and design recommendations herein
Action 7	Monitor Public Input, Agency Consultation and Aboriginal Consultation
Action 8	Issue Notice of Schedule B EA Project Completion
Action 9	Complete Technical Support Studies and Engineering Design Drawings and Specifications
Action 10	Coordinate Tender Call(s) as appropriate

18.0 PHASE 5 NOTICE OF STUDY COMPLETION

Once this Municipal Class EA process is complete and selection of the Preferred Alternative is confirmed by Council Resolution a Notice of Completion will be placed in the Mattawa Recorder and posted on the Town of Mattawa website providing a 60 day period for public and agency review and comment.

A Project File will be deposited at the Town Office which will include a record of all contacts, as well as enquiries and comments received during the course of the review period.

Notice of Study Completion will be sent directly to mandatory agencies; as well as property owners adjacent to the project area.

Final design drawings/specifications and construction will be in accordance with the provisions of this Municipal Class Environmental Assessment Schedule B.

APPENDIX A

RECORD OF ACTIVITIES

**APPENDIX A
PROPOSED NEW WATER STORAGE RESERVOIR AND
RELATED WATER SYSTEM IMPROVEMENTS**

**SCHEDULE B ENVIRONMENTAL ASSESSMENT
RECORD OF ACTIVITIES**

1.	April 2024	HSWS Funding Application
2.	July 2024	Initiate Engineering Technical Support (eg: WaterCAD and Engineering Options Analysis)
3.	August 2024	Initiate Environmental Assessment Process
4.	October 2024	Complete Engineering Options Analysis
5.	May 26, 2026	Correspondence to Agencies
6.	May 26, 2026 to current	Correspondence to First Nations
7.	June 2026	Prepare Aboriginal Consultation Plan
8.	June 2026	Prepare Notice of Study Commencement
9.	June 20, 2026	Public Information Center
10.	June 2026	Finalize Environmental Assessment and File
11.	July 2026	Notice of Study Completion

APPENDIX B

ABORIGINAL CONSULTATION PLAN



TOWN OF MATTAWA

NEW RESERVOIR AND RELATED WATERWORKS

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

ABORIGINAL CONSULTATION PLAN



**TOWN OF MATTAWA
NEW RESERVOIR AND RELATED WATERWORKS
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT**

ABORIGINAL CONSULTATION PLAN

Background

Indigenous Communities are entitled to the opportunity to be consulted on major projects within the territory and to provide informed consent or advice to the potential impact on Aboriginal rights under Section 35 of the Constitution Act.

PROPOSERS HAVE A “DUTY TO CONSULT”

In this regard, the following activities have been undertaken or will be undertaken to fulfil duty to consult obligations.

Indigenous Communities Contacts

Aboriginal Contact		Initial Contact	Initial Response
Algonquin of Ontario Consultation Office 31 Riverside Drive Pembroke, Ontario K8A 8R6	Jim Meness, Executive Director jmeness@tanakiwin.com	June 11, 2025	See Attachment B
Mattawa North Bay Algonquin First Nation 318 Main Street P.O. Box 1330 Mattawa, Ontario P0H 1V0	Chief Cliff Bastien Jr. chiefcliffordbastien@hotmail.com	June 11, 2025	None
Antoine Algonquin First Nation Hwy. 17 East 45 Labelle Road, Box 420 Mattawa, Ontario P0H 1V0	Chief Davie Joannis joanissedavie@gmail.com	June 11, 2025	None
Algonquins of Pikwakanagan 1657 Mishomis Inamo Pikwakanagan, Ontario K0J 1X0	Chief Greg Sarazin chiefsarazin@pikwakanagan.ca	June 11, 2025	None
Kebaowek First Nation Land Management (Mattawa Office) 364 Main Street Mattawa, Ontario P0H 1V0 Band Administration Office 110 Ogima St. Kebaowek, Quebec J0Z 3R1	Logan Haymond, Land Management Technician logan-haymond@kebaowek.ca Jackie Drouin Land Management Administrator jdrouin@kebaowek.ca	June 11, 2025	None
Metis Nation of Ontario 380 Main Street, Unit 1 Mattawa, Ontario, P0H 1V0	Nelson Canoe nelsoncanoe@hotmail.com	June 11, 2025	None

**Town of Mattawa
Proposed Water Storage Reservoir and
Related Water System Improvements
Municipal Class Environmental Assessment
Schedule B**

List of Consultation Activities

1. Early Notice of Project Commencement	See attached letter	June 11,2025
2. Notice of Project Commencement	See attached notice	May 2026
3. Public Information Center		June 20, 2026
4. Follow up with Direct Contacts	Ongoing	

Follow up Contact

Provided map of Town of Mattawa Water System	By mail
Provided list of project components	By e-mail and regular mail
Working draft Engineer Options Report	By mail
Working draft Environmental Assessment	By mail
Stage 1 Archeological Report	By mail
Face to face in-person interviews	On request
Written response to interrogatories	Ongoing
Progress Reports	Project Milestones

Conclusion

The above noted activities are intended to ensure Aboriginal interests are meaningfully considered.

APPENDIX C

**HEALTH & SAFETY WATER STREAM (HSWS)
APPLICATION**



Health and Safety Water Stream (HSWS)

Saved: 06/25/2026 15:42

Expand

Validate

A) Instructions	B) Organization Information	C) Organization Address Information
D) Applicant Contact Information	E) Project Information	F) Outcomes
G) Project Financials	H) Asset Management Plans	I) Risks
J) Technical Appendix	K) Duty to Consult Questionnaire	L) Declaration / Signing

A) Instructions

The Municipal Housing Infrastructure Program: Health and Safety Water Stream (MHIP-HSWS) is an application-based program. It will protect communities by addressing aging water, flood and erosion infrastructure.

The objective of the stream is to invest in core water systems to:

- Support aging water infrastructure to improve critical health and safety issues;
- Preserve the province's current housing stock to increase options for Ontario residents looking for a home;
- Promote climate resiliency and adaptation across communities.

Before applying, potential applicants are encouraged to review the Program Guidelines to determine if you are an eligible applicant or if your project is eligible for funding under MHIP-HSWS. Failure to meet submission requirements will result in the submission being identified as incomplete and will be at risk of not proceeding to the evaluation portion of the application process.

How do I apply?

1. Applicants are required to complete this application form which includes a Technical Appendix and a Duty-To-Consult Questionnaire. Applicants will also be **required** to submit the following supporting documents as attachments through the TPON system:

- Project map(s) clearly identifying all components in the project description in KML format. Refer to "How to Create a KML File" at the end of the program Guidelines for instructions;
- Environmental Assessment.

2. Applicants may also be required to submit additional documents and information depending on answers provided. This may include:

- Laboratory reports
- Engineering assessments
- Inspection reports
- Design reports
- Master Infrastructure Plan
- Compliance/conformance letters/reviews
- Photographs
- PDF maps
- Site approvals for existing assets (e.g., dams) including site approval code for the structure, where applicable
- Archaeological assessment report, where applicable
- Notices of Completion, where applicable.

3. Applicants are eligible to apply for only one project for funding through the MHIP-HSWS. Joint submissions will be counted as one application for all eligible partners and must be submitted by lead applicant.

4. All applications and required attachments (i.e., KML project map and environmental assessment) must be submitted electronically and submitted to Transfer Payment Ontario by the deadline specified in the program guidelines. Scanned application forms will not be accepted.

See Program Guidelines for more information on program eligibility and required supporting documentation.

Fill in all required fields and fields that apply to your proposed project. Failure to complete this form in its entirety and submit appropriate required documentation will result in the inability to assess the application and the project will be declined.

Late applications will not be accepted.

How will I know my application was received?

Once the completed application has been submitted, an automated acknowledgement of receipt with a file number will be sent to the organization contact's email that is provided. After application submission, if acknowledgement of receipt has not been received by the organization's primary contact, please contact TPONCCC@ontario.ca.

Other important information

Please note that Ontario cannot guarantee funding to all applicants, nor can the province ensure that the total amount requested by successful applicants will be granted. Approval will be assessed and prioritized based on program requirements, assessment criteria and the overall demand of funds in the program. Funding for MHIP-HSWS will be disbursed through a milestone-based approach (refer to Program Guidelines for details on expenditure disbursements). Applicants must have a plan in place on how to finance projects upfront, how the applicant share will be funded, and how any potential cost over-runs or escalations will be managed.

B) Organization Information

If you have an existing account or profile, this section will be automatically populated. If you have not yet registered for Transfer Payment Ontario (TPON), please complete your registration [at this link](#).

This section is not editable and displays information from your Transfer Payment Ontario (TPON) registration. The TPON system is a one-window self-serve registration system for submitting and updating an organization's profile information. All organizations receiving transfer payments from the Government of Ontario must register in the TPON system. If changes are required in this Section of your application, they need to be made in the TPON system. Once your information is revised, all future downloaded forms will include the updated information.

Organization Information

Organization Name:

[Corporation of the Town of Mattawa](#)

Organization Legal Name:

[Mattawa Municipal Corporation](#)

Website URL:

www.mattawa.ca

Are you a municipal applicant? *

[Yes](#)

C) Organization Address Information

This section is not editable and displays information from your Transfer Payment Ontario (TPON) registration. The TPON system is a one-window self-serve registration system for submitting and updating organization profile information. All organizations receiving transfer payments from the Government of Ontario must register in the TPON system. If changes are required in this Section of your application, please make them in the TPON system. Once your information is revised, all future downloaded forms will include the updated information.

Business Address

Street Address 1:

[160 Water St](#)

Street Address 2:

City/Town:

[Mattawa](#)

Province:

[ON](#)

Postal Code:

[P0H1V0](#)

Country:

[Canada](#)

Mailing Address

Street Address 1

[160 Water St](#)

Street Address 2

[PO Box 390](#)

City/Town

[Mattawa](#)

Province

[ON](#)

Postal Code P0H1V0	Country Canada
---------------------------------------	-----------------------------------

D) Applicant Contact Information

This section is automatically populated with your organization's general contact information for all projects in your organization managed by Transfer Payment Ontario. This contact is typically the CAO, Treasurer, or Clerk. Please ensure this information is correct. If this information needs to be updated, please update them in Transfer Payment Ontario System.

Organization Contact Information

First Name: Dexture	Last Name: Sarrazin
Job Title: Director of Community Services	
Primary Phone Number: Canada-705-744-5611	Secondary Phone Number: --
Email Address: dexture.sarrazin@mattawa.ca	

First Name: Raymond	Last Name: Belanger
Job Title: Mayor	
Primary Phone Number: 001-705-7445611	Secondary Phone Number: 001-705-7445611
Email Address: raymond.belanger@mattawa.ca	

First Name: Shawn	Last Name: Hongell
Job Title: Fire Chief	
Primary Phone Number: Canada-705-744-5611	Secondary Phone Number: Canada-705-303-3036
Email Address: shawn.hongell@mattawa.ca	

First Name: Melody	Last Name: Byers
Job Title: Executive Assistant	
Primary Phone Number: Canada-705-744-5611	Secondary Phone Number: --
Email Address: melody.byers@mattawa.ca	

First Name: Paul	Last Name: Laperriere
Job Title: CAO/Treasurer	
Primary Phone Number: Canada-705-7445611	Secondary Phone Number: Canada-705-4924793
Email Address: cao@mattawa.ca	

Project Contact information		Add	Remove
1) Please include the contact information of at least one representative within your organization who has signing authority for the project. 2) Please also include a primary contact for the project (e.g. Project Lead). The primary contact will receive updates or inquiries about the project and application. 3) If this is a joint project, also include contact information for all partners involved in the project. 4) Use the "add" button to include any additional supporting project-specific contacts (e.g. alternate contact in case the primary contact is absent)			
Primary: ☒			
First Name: *	Paul	Last Name: *	Laperriere
Title: *	CAO/Treasurer	Contact Type *	Applicant
Phone Number (Work): *	(705) 744-5611	Phone Number (Mobile):	(705) 492-4793
Email Address: *	cao@mattawa.ca		
Signing Authority	☒		
Indicate number of partners including the lead applicant *			
1			
Is this a joint project? *			
No			

E) Project Information
Project Title Provide a description of the asset and work to be completed. Include the nature of the project and asset type. For example, Rehabilitation of King Street Watermains would be an acceptable title (100 characters maximum, no special characters, e.g., "&").* Replace Town of Mattawa Water Reservoir & related waterworks including new supply well 3 assessment.
Project Description Provide a technical description of the proposed project, including all quantifiable components and if it is new, expansion, reconstruction, or a repair project (e.g., expand a water treatment plant; repair a pump control system; reconstruction of two water reservoirs; replace approximately 500m of water mains under John Street between 4 th and 5 th Avenues, etc.). This includes outlining the scope of the project and a full description of all infrastructure work to be undertaken, including what type of asset is being supported (e.g., drinking water/wastewater). Please ensure that the project scope aligns with your Total Eligible Costs (TEC) and the

information provided in all other supporting documents.

Applicants must select only one primary project asset type but may bundle more than one eligible project asset type. For example, a project may have both drinking water and wastewater components. Bundled projects must demonstrate that each component of the project is inter-related and meets eligibility requirements.

If bundling shoreline work, ensure the projects address the same issue (e.g., erosion mitigation) within a defined area, such as a regional littoral cell. Contiguity is not required.

Do not include components outside of your eligible cap or details on other phases if this project is a component of larger work. Do not include any outcomes or benefits of the project in this section as they will be captured later in the Application Form.

See Program Guidelines for sample Project Descriptions.

(2000 characters maximum.) *

The existing 175,000 imperial gallons water reservoir constructed in 1949 is in poor condition and non-compliant with current standards for water storage or fire protection. Proposed project includes new 500,000 imperial gallons reservoir facility, new feeder line and upgrades to the existing water transmission system. The existing 250 mm feeder line servicing the existing reservoir was also constructed in 1949 and is at risk of imminent failure. The proposed reservoir facility is essential to supporting the Town's aging water infrastructure, protecting/preserving existing housing structures, providing adequate fire protection and advancing new housing growth. The Town of Mattawa Core Asset Management Study has also identified the priority need for a new Supply Well #3 at or near the existing Water Treatment Plant to increase pumping capacity from existing 883 imperial gallons per minute to achieve 1,500 imperial gallons per minute in order to provide storage and fire flow capability in accordance with MOECC Guidelines. This HSWS application requests funding to support a hydrogeological survey and preliminary engineering assessment required to clarify required infrastructure and estimate of related capital costs for Supply Well #3. The installation of Supply Well #3 will address environmental protection vis a vis source water protection and mitigation of Groundwater under Direct Influence (GUDI) and impacts of climate change vis a vis mitigating flooding of the Mattawa River.

Project Type(s)

Select primary project type: *

Drinking water

If this is a bundled project, select the secondary project type:

Drinking water

Nature of the project

Indicate the percentage for each of the options. Input "0" for inapplicable fields. Total percentage must equal 100%. Under MHIP-HSWS, dams and dykes are not eligible for new construction and projects involving these asset types may only include rehabilitation, alteration, improvement, repair or maintenance of existing structures.

New %	Rehabilitation (including reconstruction) %	Expansion %	Other %
75%	7%	12%	6%
Total percentage			
100%			

Location

Identify the community in which the project will be located. Provide the latitude and longitude of the project. If your project has multiple points (e.g., watermains, multiple water reservoirs), only include the starting or central point. You will include multiple points in the required KML map as part of the submission.

Community *

Mattawa, Town Of

If Not Applicable or the community is not in the list, enter the name below. You may enter more than one (250 characters maximum).

Project Latitude *	Project Longitude *
46.308000	-78.694000

Asset Ownership and Operation

Confirm the asset is publicly-owned, either by the applicant or local conservation authority. For First Nations applicants, attest to having care and control over the infrastructure assets put forward for funding. *

Yes, the applicant owns the asset in full

Will the Applicant operate the asset? *

Yes

Project Schedule

Eligible project costs must be incurred after April 1, 2024. *

Yes

Forecasted Project Start Date should be no later than September 30, 2025. The project start date can represent pre-construction soft costs (i.e., design engineering, project management, etc.). *

04/01/2024

Forecasted Construction Start Date (date on which construction is expected to begin i.e., Site preparation). *

07/20/2026

Forecasted Construction End Date (no later than **March 31, 2029**). *

12/31/2028

Project Readiness

Is the project in the process of and/or substantially completed design and planning? Please indicate the status from the options below:

Item	Status *	Completion % *
Environmental Assessment	In Progress	75.00%
Land Acquisition	Completed	100.00%
Conceptual Engineering	Completed	100.00%
Basic Engineering	In Progress	50.00%
Detailed Engineering	In Progress	10.00%
Environmental Compliance Approval application	Complete Application Not Submitted	
Letter of Conformance (LoC) Request (FN applicants only)	Not Applicable	
Lakes and Rivers Improvement Act (LRIA) Approval	Not applicable	
Public Lands Act (PLA), Public Lands and Shore Lands - Work Permits	Not applicable	
Permit from conservation authority under Conservation Authorities Act (if applicable)	Not applicable	

Other comments for project readiness (1000 characters maximum).

Proposed Reservoir site and construction access road connecting Dorion Road to proposed Reservoir has been cleared and grubbed.

Construction access road has been rough graded.

Preliminary soils test pits completed for feeder line and reservoir.

F) Outcomes

Complete for all relevant capital outcomes included in the project (at least one Asset Outcome) and Housing Outcomes table. Please see Program Guidelines for additional information.

Assets:		
☐ Drinking water treatment facilities		
☒ Drinking water reservoirs		
Outcome Type: Increased access to potable water		
Indicator Drinking water reservoirs	Value 1	Unit of Measure Number of Assets
☐ Drinking water pump stations		
☒ Drinking water transmission pipes		
Outcome Type: Increased access to potable water		
Indicator Transmission Pipes	Value 507	Unit of Measure Metres
☒ Drinking water local pipes		
Outcome Type: Increased access to potable water		
Indicator Local Pipes	Value 732	Unit of Measure Metres
☒ Other type of potable water assets		
Outcome Type: Increased access to potable water		
Indicator Length/Number of Assets receiving investment	Value 1,239	Unit of Measure Metres
Description Fire Hydrants		
☐ Volume of materials diverted from disposal (for wastewater or storm water infrastructure)		
☐ Treatment capacity (for wastewater or storm water infrastructure)		
☐ Wastewater treatment plants		
☐ Wastewater lagoon systems		
☐ Wastewater linear assets (conveyance piping)		
☐ Wastewater pump stations		
☐ Wastewater lift stations		
☐ Wastewater storage tanks		
☐ Other type of wastewater assets		
☐ Stormwater drainage pump stations		
☐ Stormwater management facilities (pond/wetlands)		
☐ All other stormwater management works		
☐ Stormwater linear assets (conveyance piping/ditches/culverts)		
☐ Other type of stormwater assets		
☐ Riverine Flood and erosion infrastructure		
☐ Existing Dam alteration, improvement or repair		

☐ Existing dyke alteration, improvement, or repair

☐ Shoreline protection works - (Flooding)

☐ Shoreline protection works - (Erosion)

Housing:

☒ Increased number of housing units

Outcome Type: [Housing](#)

Indicator	Value	Unit of Measure
Number of housing units in the municipality/First Nation as of January 1, 2024 (baseline)	984	Housing Units
Indicator	Value	Unit of Measure
Number of housing units impacted (maintained) by the project	984	Housing Units

G) Project Financials

Before completing this section, please review the Program Guidelines on eligible and ineligible costs. Fill in the financial details of your project below only for eligible costs that correspond to the activities in your Project Description. No ineligible costs or project costs that are being funded through other federal or provincial programs are to be entered. **Costs incurred before April 1, 2024, are ineligible.** Project milestones must be met before funds can be disbursed.

Fields in this section are mandatory. Component name = "N/A" and Eligible Cost = "0" are acceptable inputs if you do not have expenses to insert.

Design, Engineering and other Professional Fees (maximum 3)

Component (100 characters maximum) *	Eligible Costs *
Environmental Assessment \$150,000.00	\$150,000.00 -
Engineering Design (Construction \$3,686,040 X 12%)	\$442,324.80 -
Project Management	\$147,441.60 - +
	Sub Total Eligible Cost \$739,766.40

Construction/Materials (maximum 5)

Component (100 characters maximum) *	Eligible Costs *
Supply and install new reservoir and related water system improvements	\$3,686,040.00 - +
	Sub Total Eligible Cost \$3,686,040.00

Other Costs (maximum 3)

Component (100 characters maximum) *	Eligible Costs *
Water System Infrastructure Update	\$100,000.00 -
Technical Support Studies	\$50,000.00 -
Supply Well #3 Hydrogeology Study & Engineering Assessment	\$150,000.00 - +
	Sub Total Eligible Cost \$300,000.00

Component Cost Summary

Eligible Cost (pre-contingency) \$4,725,806.40

Contingency (NOTE: Contingency is automatically set to 25% of your project costs. Do not insert a separate contingency line or try to change this value).

Contingency Percentage *	25
Contingency Amount	\$1,181,451.60
Total Eligible Cost (Eligible Cost + Contingency)	\$5,907,258.00

Contribution

Funding Source *	% Contribution *	Funding *
Provincial	73.00000000%	\$4,312,298.34
Applicant	27.00000000%	\$1,594,959.66
	Total Contribution % 100.00000000%	Total Funding Amount \$5,907,258.00

Please provide the breakdown of applicant's funding sources for the total eligible project costs (e.g., debt, reserves, taxation). For example: 25% from debt, 25% from taxation, 50% from reserves (2000 characters maximum): *

I.O. infrastructure loan (debt) 90%, general taxation 5%, reserves 5%.

For Municipal Applicants: If your funding source is a debt, please provide an updated Annual Repayment Limit (per Section 4 of [O. Reg. 403/02: DEBT AND FINANCIAL OBLIGATION LIMITS \(ontario.ca\)](#)): *

\$656,504.00

Project Forecast

Indicate the percentage for each year where project work is forecasted. Input "0" for inapplicable years. Total percentage must equal 100%. Note that the years below reflect the Province's fiscal year – which runs from April 1 to March 31 (e.g., 2024-25 runs from April 1, 2024, to March 31, 2025). Please ensure that forecasted expenditures align with the project start and end date, as indicated above (i.e., funding should end in the same fiscal year the construction ends unless there is a specific rationale provided for post-construction funding needed). Construction holdbacks should be forecast in the year in which the work is performed – not the year in which the holdbacks are released

Year	% Project Completion *	Provincial Funding	Applicant Funding	Total
2024-25	0.00%	\$0.00	\$0.00	\$0.00
2025-26	2.50%	\$107,807.46	\$39,873.99	\$147,681.45
2026-27	35.00%	\$1,509,304.42	\$558,235.88	\$2,067,540.30
2027-28	32.50%	\$1,401,496.96	\$518,361.89	\$1,919,858.85
2028-29	30.00%	\$1,293,689.50	\$478,487.90	\$1,772,177.40

Project Completion % Total
100.00%

H) Asset Management Plans

If you are not a municipal applicant, you are not required to complete this section.

Has the proposed project been determined based on the lifecycle activities prioritized in your municipality's asset management plan? *

Yes, the proposed project has been determined based on the lifecycle activities prioritized in the AMP.

Does your asset management plan meet the July 1, 2024, regulatory requirements as outlined in the Asset Management Planning for Municipal Infrastructure regulation (O. Reg 588/17)? *

Yes

I) Risks

Provide risk level and mitigation information for the risks relevant to this project. Please select and identify at least one risk. If you specify a risk below you must provide a mitigation strategy. Only include those risks that have a strong likelihood of impacting your project.

Please select all that apply	
Project Complexity	☒
Project Readiness	☐
Public Sensitivity	☐
Applicant	☐

Project Complexity

Risk Remote Geographical location	Level of Risk * N/A
--------------------------------------	------------------------

Mitigation (250 Characters)

Risk Interdependant on phases	Level of Risk * N/A
----------------------------------	------------------------

Mitigation (250 Characters)

Risk Other	Level of Risk * Medium
---------------	---------------------------

Mitigation (250 Characters)

The projects consists of multiple components to address a water infrastructure that is end of life, insufficient for growth and inadequate for fire suppression. The Town has secured the services of an engineering firm to manage the project.

J) Technical Appendix

The Technical Appendix is intended to gather more detailed information and provide assessment scores on the criticality of the proposed project. In order to be considered eligible for funding, applicants must complete the schedule in full for the sections that pertain to your project. Please input "N/A" for fields that do not apply to your project to ensure form validation prior to submission.

Project Components

Please indicate which of the following benefits are anticipated for the community as a result of the proposed project. Where a benefit is selected, provide a description of the issue to be addressed and how the project addresses the issue to achieve the selected benefit.

Mandatory Criteria

Benefit *	Details *
☒ Improves and/or makes water assets more reliable?	New reservoir replaces end of life existing reservoir; meets Town water demands and will provide sufficient water for fire suppression.

Select all that apply.

Benefit *	Details *
-----------	-----------

☒	Addresses an urgent public health and/or safety issue(s)?	Meet fire flow requirements to protect existing structures
☒	Reduces the probability of asset failure and/or service interruptions?	Existing 250 mm feeder line to be decommissioned
☒	Achieves service levels or key performance indicators established by the applicant in their asset management plan?	Improves water transmission grid
☒	Reduces lifecycle costs?	Yes
☒	Supports enhanced environmental protection?	Yes Well #3 will consider source water protection and GUDI
☒	Strengthens resilience to natural hazards?	Yes
☒	Addresses potential climate change impacts and enhances climate resiliency?	Yes Well #3 will be located to mitigate Mattawa River Flooding
☐	Will any long-term drinking water advisories be resolved as a result of this project? If yes, specify location	
☒	Will the project result in drinking water that will meet or exceed the relevant provincial or territorial standards following project completion?	Yes

Applicants will be assessed in part against the following criteria. Applicants are encouraged to complete the sections below in full, where applicable. For drinking water, wastewater and/or stormwater projects, fill out sections 1 through 6, as appropriate. For water management, flood and erosion infrastructure projects, including shoreline protection works, fill out section 7 below.

1. Environmental Impacts: Provide the total number of non-compliance events in the last three (3) years, including what parameters were not in compliance.(2000 characters maximum)

None.

Describe how the project results in a reduction of sanitary or combined sewer overflows or bypassing of raw or partially treated sewage from the treatment facility, or improve stormwater management, to address a documented environmental and/or health concern. (2000 characters maximum)

N/A

Describe how the project would significantly reduce impacts on the receiving body of water to address well-documented potential impacts on beneficial or recreational uses, if applicable. (2000 characters maximum)

N/A

Describe and/or provide documentation of the environmental/health concern(s). Describe how, and the extent to which, the project would address the concern(s), and complete the following chart if information is applicable.	Average Annual # in the Last 5 Years	# in the Last Full Calendar Year	Projected # of Annual Events
	Before Project *	Before Project *	After Project (forecasted) *
Frequency of overflow events	0.00	0.00	0.00
Volume of overflows (m3)	0.00	0.00	0.00
Duration of overflow (hours)	0.00	0.00	0.00
Frequency of bypass events	0.00	0.00	0.00
Volume of bypasses (m3)	0.00	0.00	0.00
Duration of bypasses (hours)	0.00	0.00	0.00

Other benefits (e.g. specify expected benefits as a result of improvements to stormwater management). (2000 characters maximum) *

N/A

2. Residential/Commercial Impacts: Describe how the project will deal with incidents of sewage backups into dwellings and/or urban flooding in the area in which the project will take place. (2000 characters maximum) *

N/A

Document the number of dwellings affected and locations. (2000 characters maximum) *

N/A

Document frequency and dates of occurrences. (2000 characters maximum) *

N/A

Provide reasons for the backups, including details of the limitations of the collection system in the area in which the project will take place. (2000 characters maximum) *

N/A

Provide expected benefits in terms of reductions in dwellings affected and number of occurrences. (2000 characters maximum) *

N/A

3. Structural Component: Describe if and how the project is intended to deal with an existing structural or other type of failure (e.g. equipment) of the water (drinking water/wastewater /stormwater) works (e.g., treatment facility, or watermain or sewer collection system), or the significant possibility of structural or other type of failure, which would endanger the environment or public health and safety caused by the failure itself, by damage to adjacent or associated infrastructure, or by a severe disruption in water works service. (2000 characters maximum) *

The proposed New Reservoir and Related Water Works project replaces an existing 170,000 Igal reservoir constructed in 1949 which is currently experiencing physical condition and maintenance issues. The proposed project will also replace the 10" dia. feeder line also constructed in 1949 connecting the existing Water Treatment Plant to the Reservoir. The existing feeder line is currently experiencing leakage and is at risk of imminent failure; which would result in severe disruption to the Town's water supply and create a serious risk to public safety in terms of system ability to provide fire protection. The proposed project also includes improvements to the Town of Mattawa Water Transmission Grid and will provide for the Hydrogeological Study required to identify a supplementary source water supply (Well #3) as per Core Asset Management Study.

Provide an explanation and/or supporting documentation (e.g. engineering assessments, inspection reports) to show why the sewage works must be replaced or repaired. (2000 characters maximum) *

N/A

4. Compliance:

For the drinking water system. (2000 characters maximum)

Identify how the project will allow the municipality:

1) to meet the drinking water regulatory requirements as in the Tables 1, 2, and 3 of the Ontario Drinking Water Quality Standards (ODWQS) or future standards the Ministry could implement, or as in a public health advisory issued by the Ministry of Health, a Provincial Order, or regulatory relief in the municipal drinking water licence related to the regulatory requirement of a drinking water system, issued by the Ministry of Environment, Conservation and Parks (MECP).

2) to meet any MECP policy, operational or design requirements (e.g., inadequate treated water storage, emergency power, etc.).

The wells (2) are situated approx. 10 m apart from each other. If any contamination occurs due to a spill, both wells would be affected as they are located in the same aquifer. The pump house is located approx. 50 m from the Mattawa River. The wells are located approx. 165 m above mean sea level. The Mattawa river is 162 m AMSL. The wells have been deemed to be non GUDI, however due to their close proximity to the River there potential for contamination. In recent years the Town has had numerous floods, that could change the hydrostatic pressure causing surface water to enter groundwater table. The surface water can cause bacteriological, chemical and radiological contamination. The solution is a 3rd supply well the assessment for which is included in this application. The common pipe to the water reservoir may have lead joints, potential of increase lead concentration in potable water. Due to the location of the current reservoir it is not accessible during winter and wet conditions. The access road to the reservoir makes it very difficult to reach it for repairs. During a 2018 inspection they observed large areas with moderate honeycombing, main reinforcement bars that are exposed which could lead to corrosion due to storage of chlorinated water, a few areas showing signs of ground water infiltration which can cause contaminants such bacteriological, chemical and radiological to enter the reservoir. The old reservoir, the replacement of which forms a major part of this application, is relied upon to supply drinking water in the event of a process upset or equipment failure that inactivates the well pumps and takes the treatment plant offline. Since the current reservoir is undersized, supply of water to the community would only last approx. 5 hrs. This is a major risk factor for a loss of drinking water supply.

For the wastewater/stormwater system. (2000 characters maximum)

Identify how the project will allow the municipality to meet any legislated Ontario requirements (e.g., conditions in environmental compliance approvals), recommendations in any environmental planning documents(s) (e.g., flood evaluation study, watershed management plan, stormwater management plan, etc.), directions in Ministry orders, or recommendations in Ministry-mandated plans or studies such as Pollution Prevention Control Plans; address federal requirements; address a recommendation in a Source Protection Plan or a direction from local Medical Officer of Health regarding safe drinking water; provide improved quality of sewage treatment works effluent in order to meet the national performance standards in the federal Wastewater Systems Effluent Regulations; or would help achieve Ontario's phosphorus reduction targets for Lake Erie.

N/A

Please describe and document with additional materials if available. (2000 characters maximum).

N/A

Drinking water/wastewater/stormwater facility current capacity and rated capacity

	Last full calendar year *	Average of last five years *
Average daily water flow (m3)	1,275.00	1,367.00
Peak day flow (m3)	1,936.00	2,184.00
Rated capacity of the plant (average daily and peak flow capacity, if available) (m3)	6,546.29	6,546.29

5. System users: If your proposed project involves a water treatment plant, pump stations, lift stations, storage tanks, please provide the number of people served by the asset(s), including any users that do not reside within your municipal/First Nations geographic boundaries. For example, a household of four would mean four people for the population served count. 999,999,999 (9 digit whole number) *

2,150

If your proposed project involves wastewater collection or distribution assets (e.g., linear conveyance piping), please provide the number of people served by the service network to which the asset belongs. For example, a household of four would mean four people for the population served count. 999,999,999 (9 digit whole number) *

0

6. System Revenues and Rate Structure: Of the total costs required to maintain existing assets in the system (i.e., operations, maintenance, interest on loans, amortization of existing capital assets, capital upgrades but excluding system expansion) approximately what percent is covered by revenues collected from the existing ratepayer base? *

100.00%

A. Please confirm the current rate structure e.g., increasing block rate, decreasing block rate, flat fee, constant unit charge, other, or a combination of rates, as applicable for residential, commercial, industrial and large industrial users. Please provide additional details on rate structure, as appropriate, including factors distinguishing industrial from large industrial ratepayers. (2000 characters maximum)

(i) Residential

Flat Fee

(ii) Commercial

Flat Fee

(iii) Industrial

Flat Fee + Material

(iv) Large Industrial

Nil

B. What is the average annual cost of drinking water and/or wastewater services for residential households that are connected to the system? \$999,999,999 (9 digit whole number)

\$859.44

C. What is the annual amount of drinking water (cubic meters) used and/or wastewater (cubic meters) discharged by the average residential household? Please provide any details in terms of how this amount is calculated, as appropriate (e.g., if a percentage of total water use is used to approximate total wastewater discharge per household). (2000 characters maximum)

In 2024, the average annual amount of drinking water used per person in the Town of Mattawa was 240.77 m3 . The usage was calculated by taking the total annual flow of 517 673 m3 divided by service population, 2150.

D. If different rate structures were provided for residential, commercial, industrial and large industrial users in 7 (a), please confirm the following:

Cost for discharging wastewater and/or using drinking water (\$ per given cubic meters)	25 *	100 *	250 *
Residential	1.00	1.00	1.00
Cost for discharging wastewater and/or using drinking water (\$ per given cubic meters)	10,000 *	100,000 *	500,000 *
Commercial	1.00	1.00	1.00
Industrial	1.00	1.00	1.00
Large Industrial	1.00	1.00	1.00

Please provide any explanatory notes, as appropriate. (2000 characters maximum) *

N/A - same rate structure.

7. Water Management, Flood and Erosion Infrastructure including Shoreline Protection Works

Please complete this section, as applicable

Describe the frequency and magnitude of flooding in affected areas. (2000 characters maximum) *

N/A

Describe the rate of erosion (Average Annual Recession Rate) and impacts on people, property and existing infrastructure. (2000 characters maximum) *

N/A

Describe the number of properties affected by flooding and/or erosion, including an estimate of population directly impacted by the hazard(s) and associated financial losses. (2000 characters maximum) *

N/A

Describe the condition of the existing asset, including hazards/risks posed by its current condition, and the extent to which these would be mitigated with proposed work. (2000 characters maximum) *

N/A

Describe how climate change or climate resiliency has been considered in the proposed work. (2000 characters maximum) *

N/A

Elaborate on how critical the proposed work is in relation to its/their impacts on public health and safety, including consideration of the likelihood of the hazard occurring and its associated impact. (2000 characters maximum) *

N/A

Based on studies and investigations undertaken, please comment on the urgency of the project proposed, including an indication of its time sensitivity including how soon the risk needs to be mitigated. (2000 characters maximum) *

N/A

Provide the approximate area (km2) mitigated by proposed infrastructure/works. 9,999 (4 digit whole number) *

0

For proposed mitigation works on dams and other existing water management and or erosion infrastructure, where available include an estimate of both the population directly affected and the property damage costs in the event of a breach or failure of the structure(s) as identified through a Hazard Potential Classification or similar analysis. \$999,999,999 (9 digit whole number) *

\$0

Describe any institutional uses, essential emergency services, hazardous substances or critical infrastructure impacted by flooding and/or erosion. (2000 characters maximum) *

N/A

Please describe and document with additional materials if available. (2000 characters maximum) *

N/A

8. Supporting Documentation: Upload to Transfer Payment Ontario any supporting documentation.

Other

What alternative options were considered for this project. (2000 characters maximum) *

In order to increase water flow and storage capacity to improve Town of Mattawa water system in order to comply with current engineering guidelines a variety of alternatives were considered as follows:

Alternative 1: Do nothing beyond normal maintenance

Alternative 2: Upgrade existing 170,000 Igal water storage Reservoir

Alternative 3: Integrate existing reservoir and new reservoir operations

Alternative 4: Increase existing Water Treatment Plant source water supply and improve pump capacity

Alternative 5: Improve existing water transmission grid system as per Core Asset Management Plan

Alternative 6: Provide new 500,000 Igal water storage reservoir facility (The Municipal Class EA considered alternative sites and configuration for a new water storage facility.)

The preferred alternative identified in the current Working Draft Schedule B Environmental Assessment is a combination of Alternative 4 Increase Source Water Supply and Alternative 5 Improve Transmission Grid and Alternative 6 Provide new 500,000 Igal Water Storage Reservoir.

How does your project incorporate modern technology? Please describe the technology(ies) being used and the associated project component(s) for each. (2000 characters maximum) *

The proposed new Town of Mattawa Water Storage Facility and Related Waterworks Project incorporates the following technology

1. Focuses on providing operational redundancy whenever possible
2. Utilizes WaterCAD computer modeling to identify and assess project components
3. Utilize twin tanks for storage versus single tank to provide for operational efficiency and risk management
4. Incorporates state of the art communications and SCADA systems
5. Incorporates energy management components
6. Provides for dedicated on-site back-up power generator

K) Duty to Consult Questionnaire

1. Will the project involve any activities such as site preparation, removal of vegetation, construction, excavation, deforestation, etc.?

Yes

If yes, please provide details (2000 characters maximum).

Some removal of vegetation and drainage improvements will be required at proposed reservoir facility site and for access road.

2. Will the project require in-water work or work in close proximity to a waterbody or waterway?

No

3. Does the project have the potential to cause downstream impacts to a waterbody or waterway?

No

4. Will the project affect birds/fowl or other animals and their habitat?

Yes

If yes, please provide details (2000 characters maximum).

Any work done in an area of birds/fowl or other animal habitat will be done outside the provincially prescribed nesting season.

5. Has an archaeological assessment previously been completed for the project site or is an archaeological assessment required for the project? If an archaeological assessment has been completed, please include the report with your submission.

No

6. Have any Indigenous communities been consulted on the project?

Yes

If yes, please provide details including a list of the Indigenous communities consulted, evidence of communication (e.g., meeting notes, emails), and details of feedback or concerns raised, including how they were addressed (2000 characters maximum).

Algonquins of Ontario

Antoine Algonquin First Nation

Kebaowek First Nation

Metis Nation of Ontario

Mattawa North Bay Algonquin First Nation

Copies included with application.

7. Are you aware of any recent claims or assertions by any Indigenous communities in connection with the project location? (For municipal applicants only)

No

8. Is it possible for the project to proceed without the MHIP funding? (Please note: this question will not be assessed for the purposes of project evaluation but is relevant to the Duty to Consult assessment).

No

Please provide details (2000 characters maximum). *

N/A

L) Declaration / Signing

Declaration / Signing

Applicants will comply with the Ontario Human Rights Code (the "Code") and all other applicable laws (<http://www.ohrc.on.ca/en/ontario-human-rights-code>). Failure to comply with the letter and spirit of the Code will render the applicant ineligible for a grant and, in the event a grant is made, liable to repay the grant in its entirety at the request of the Ministry. Applicants should be aware that Government of Ontario institutions are bound by the Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c.F.31 (<https://www.ontario.ca/laws/statute/90f31>), as amended from time to time, and that any information provided to them in connection with this application may be subject to disclosure in accordance with that Act. Applicants are advised that the names and addresses of organizations receiving grants, the amount of the grant awards, and the purpose for which grants are awarded is information made available to the public.

Certification

Yes / No questions (all mandatory)

If you indicate no to any of the following statements, you should contact the program area through MHIP@ontario.ca for further information and to determine if your project would be eligible for funding:

Costs incurred prior to April 1, 2024 are not eligible for reimbursement.
All eligible costs will be incurred after April 1, 2024. *

Yes

All capital costs, including site preparation and construction costs are ineligible until Ontario has confirmed in writing that Duty-To-Consult (DTC) requirements have been met. All capital costs, including site preparation and construction costs are ineligible until the project has met all required Environmental Assessment requirements or is otherwise exempt.

All construction and site preparation work will be scheduled to occur after Ontario has confirmed that environmental assessment, Land use planning requirements and Duty-To-Consult (DTC) requirements have been met. *

Yes

If you are intending to award a contract in a way that is not competitive and consistent with value for money principles, prior approval will be required. There must be a mitigation plan in place in the event that any such request is denied.
If approved, the organization will be employing third-party vendors for all eligible project costs. *

Yes

All Contracts will be awarded in a way that is fair, transparent, competitive and consistent with value-for-money principles, or in a manner otherwise acceptable to Ontario. *

Yes

I attest that my project aligns with existing stormwater management or capital plans, where they exist. (The Ministry may request successful applicants to submit their plans, if available.)

I will utilize MHIP-HSWS funding incrementally to add to, rather than replace, earmarked funding for these plans. *

Yes

Alignment with Applicable Provincial Legislation

As per details in the MHIP-HSWS Program Guide, I attest that this project adheres to the Ministry of Natural Resources' natural hazard technical guidance. [Public Lands Act](#) and the [Lakes and Rivers Improvement Act](#) and associated technical bulletins, as appropriate.

1. As a municipality, I attest that I have consulted with and am working with my conservation authority (where one is established) on this proposal.
2. For projects involving stormwater management ponds, I attest that:
 - a. Any proposed stormwater management pond will be designed to hold no greater than the 100- year storm event. Ponds designed to store greater than the 100-year storm, including up to or exceeding the regional flood standard (i.e. Hurricane Hazel Storm; Timmins Storm) are not supported by provincial policy at this time.

Attestation

The Applicant hereby certifies as follows:

- a. the information provided in this application and all supplementary attachments is true, correct and complete in every respect;
- b. the Applicant understands any funding commitment will be provided by way of an approval letter signed by the responsible Minister and will be subject to any conditions included in such a letter. Conditions of funding would be outlined through a Transfer Payment Agreement and would include reporting requirements to ensure accountability;
- c. the Applicant has read and understands the information contained in the Application Form and all supplementary documents;
- d. the Applicant is aware that the information contained herein will be used for the assessment of grant eligibility and for statistical reporting, including reporting to the provincial government;
- e. the Applicant understands that it is expected to comply with the Ontario Human Rights Code and all other applicable laws;
- f. the Applicant understands that the information contained in this application or submitted to the Ministry in connection with the grant is subject to disclosure under the Freedom of Information and Protection of Privacy Act;
- g. the Applicant is not in default of the terms and conditions of any grant, loan or transfer payment agreement with any ministry or agency of the Government of Ontario;
- h. following project completion, all major identified elements above will meet or exceed the highest published accessibility standards, codes, and by-laws in the jurisdiction.
- i. if the project is a building, the highest published applicable provincial water regulations, energy efficiency standard and building code in the jurisdiction will be met or exceeded; and,

j. I am an authorized signing officer for the Applicant.

This form must be digitally validated using the “Sign Document” button and submitted in electronic format only. Scanned and faxed application forms will not be accepted.

Applicant

Paul Laperriere
CAO/Treasurer
(w): (705) 744-5611
Email: cao@mattawa.ca

Sign Document

By clicking the "I Agree" button, I Agree with the Declaration and Statement Above

I Agree

I Disagree

Signature [Paul Laperriere](#)

Date/Time [06/26/2025 10:02:02](#)

Please validate your application by clicking the validate button before submitting the form back to Transfer Payment Ontario.

APPENDIX D

ESTIMATED TOTAL PROJECT COST OF PREFERRED ALTERNATIVE

WATER STORAGE FACILITY RESERVOIR
TWIN TANKS @ 1,152 m³/250,000 Igal
AND RELATED WORKS

Improve Service Road Access to Reservoir (275 meters)	\$ 50,000.00
Provide Single Phase Hydro Service to Reservoir (275 meters)	\$ 125,000.00
Construct 250 mm Feeder Watermain Connection to Reservoir (275 meters @ \$1,500/m)	\$ 412,500.00
Construct 250 mm dia. Watermain on Brook Street between Highway 17 and Pine Street (132 meters) @ \$1,500 m (\$198,000) and Upgrade Existing Brook Street Watermain (\$140,000) eg: Fire Hydrants and Tees	\$ 338,000.00
Extend 250 mm dia. Watermain Pine Street from Fire Hall to Highway 17 (100 meters @ \$1,500/m)	\$ 150,000.00
Site Preparation at Reservoir (50 m x 50 m) - Clearing and Grubbing \$10,000 - Grading and Drainage \$50,000 - Aquarobic Septic System \$20,000 - Security Fencing 50 m x 50 m x 2.5 m \$60,000 Allowance - Security Cameras \$15,000 - Site Lighting \$15,000 - Back-up Power Generator \$200,000	\$ 370,000.00
New Reservoir Tanks 2 x 1,152m ³ /250,000 Igal	\$ 1,438,700.00
Reservoir Concrete Base Two (2) pads @ 15 m diameter x 1 m thick = 175 m ³ x 2 = 350 m ³ - Concrete Supply and Install 350 m ³ @ \$360/m ³ = \$126,000 - Rebar Supply and Install \$60,000	\$ 186,000.00
Reservoir Control Building Structure 100 m ² /1,076 ft ² x \$340/ft ²	\$ 365,840.00
Reservoir Instrumentation/Process/Electrical/Communication	\$ 250,000.00
Project Management	\$ 200,000.00
SUB-TOTAL EXCLUDING HST	\$ 3,886,040.00
CONSTRUCTION - SAY	\$ 4,000,000.00
TECHNICAL SUPPORT STUDIES	\$150,000.00
CONTINGENCIES 25%	\$1,037,500.00
TOTAL PROJECT COST	\$5,187,500.00