Peel Region

WELCOME

- We will begin shortly.
- For your convenience, you can leave your questions and/or comments in the Q&A tab at any time during the presentation.
- The project team is available to answer questions/comments as they are asked.
- There will also be time for questions at the end of the presentation.



Peel Region

MASTER PLAN FOR THE GROUNDWATER-BASED DRINKING WATER SYSTEMS

Public Information Centre #1

Cheltenham Drinking Water System

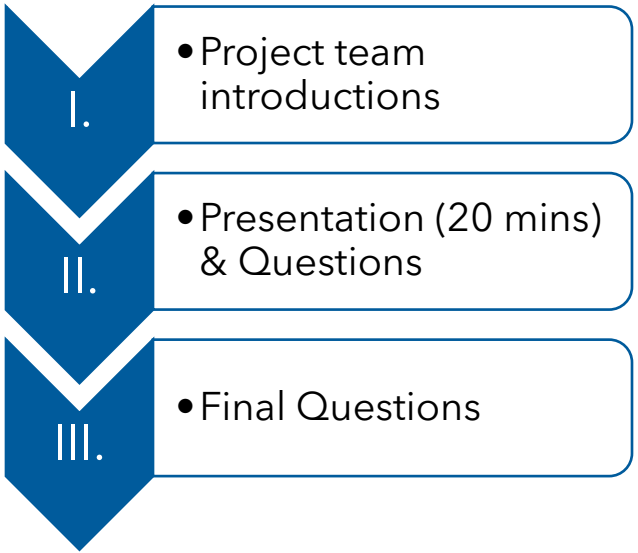
October 22nd, 2025

Housekeeping and Agenda

- Project team members from the Region and the consultant team are attending this meeting.
- You can submit questions or comments at any time by clicking the Q&A icon. The project team will respond to questions throughout the presentation. You'll also have the opportunity to ask questions live during the Q&A session at the end. Attendees will remain muted during the presentation.
- This meeting is being recorded for the Region's internal use. The recording will not be publicly distributed.
- The presentation slides and online survey/comment form will be available at the project webpage:

  Groundwater Masterplan Webpage

Agenda:



I. Project Team Introductions

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Project Manager

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Project Manager

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II. Presentation

Why Are We Here?

Peel Region is undertaking a **Master Plan** study to identify long-term water servicing strategies to support the needs of the existing and future population serviced by the Region's groundwater-based drinking water systems up to the 2051 planning horizon.

The objectives of this **Public Information Centre #1** are to:



Introduce the project and provide background information.



Provide an overview of the Master Plan process



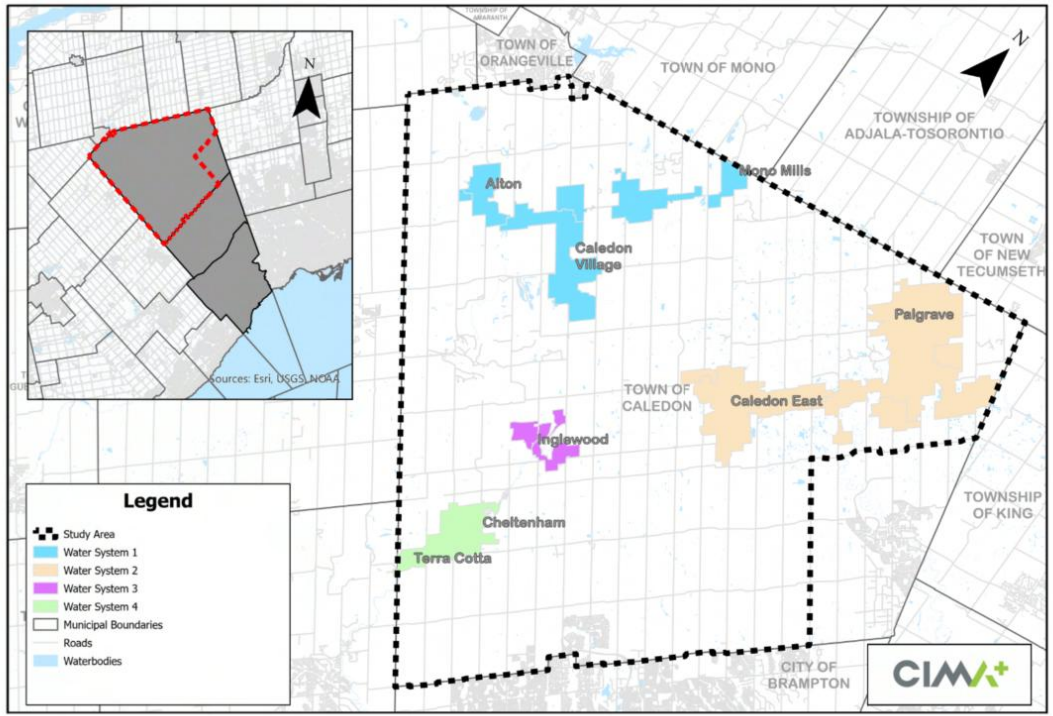
Provide background information on the existing groundwater-based drinking water systems.



Gather your feedback on priorities to be considered in the next stages of the project – Stay involved!

Background

- Peel Region owns, operates and maintains four (4) groundwater-based drinking water systems in the Town of Caledon, servicing areas across multiple villages, hamlets and rural areas.
- Peel Region is developing its first Master Plan study for the groundwater-based drinking water systems to ensure sustainable long-term servicing through to 2051.
- The Master Plan study will build on work from previous studies and ongoing work to support future planning.



Master Plan Study – Context and Objectives

Context:

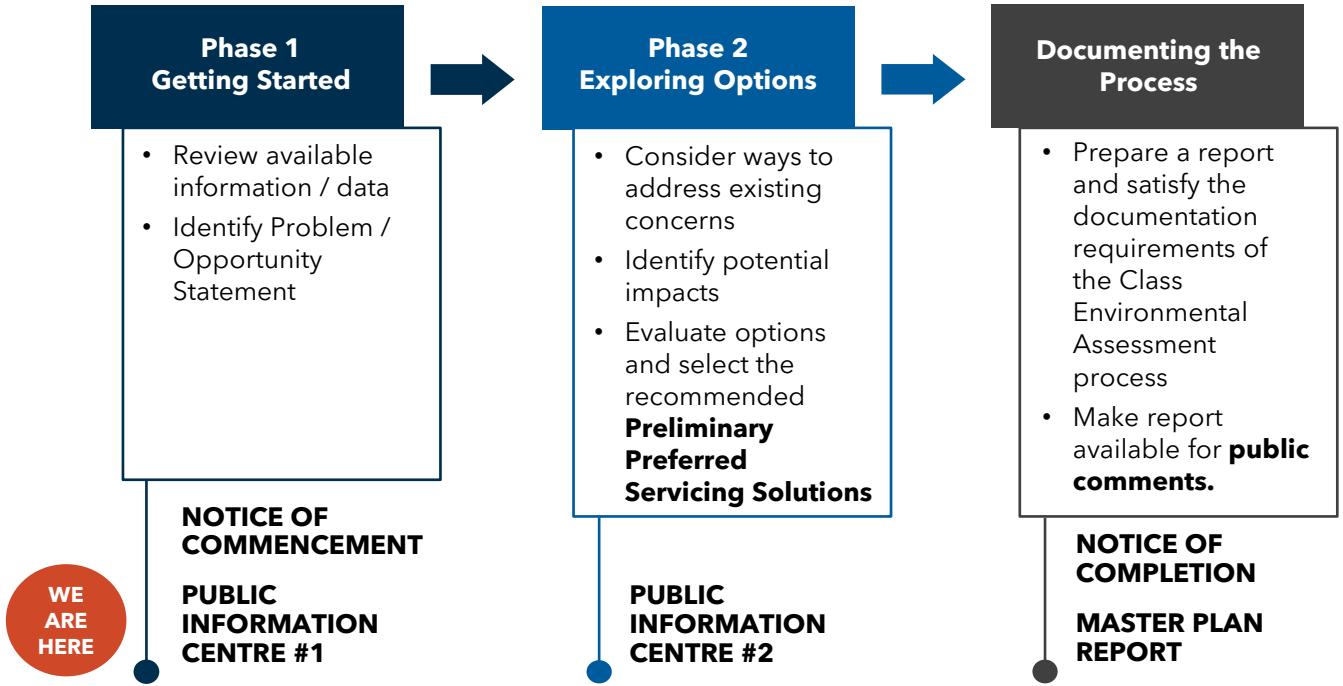
- The Master Plan is prepared following the Municipal Class Environmental Assessment (MCEA) process, which is an approved approach under the Ontario Environmental Assessment Act (1990).
- Preparation of the Master Plan follows Approach 1 of the MCEA Process, meaning it is completed at a broad level of assessment and requires further detailed investigations at a project-specific level.
- Master Plans under Approach 1 meet Phase 1 (Problem or Opportunity) and Phase 2 (Alternative Solutions) of the EA process.

Objectives:

- Develop and evaluate water servicing strategies to accommodate projected population growth through the 2051 planning horizon.
- Meet the requirements of the MCEA process for Master Plans.
- Develop a capital implementation program for the preferred recommended servicing strategies.

Municipal Class Environmental Assessment Process

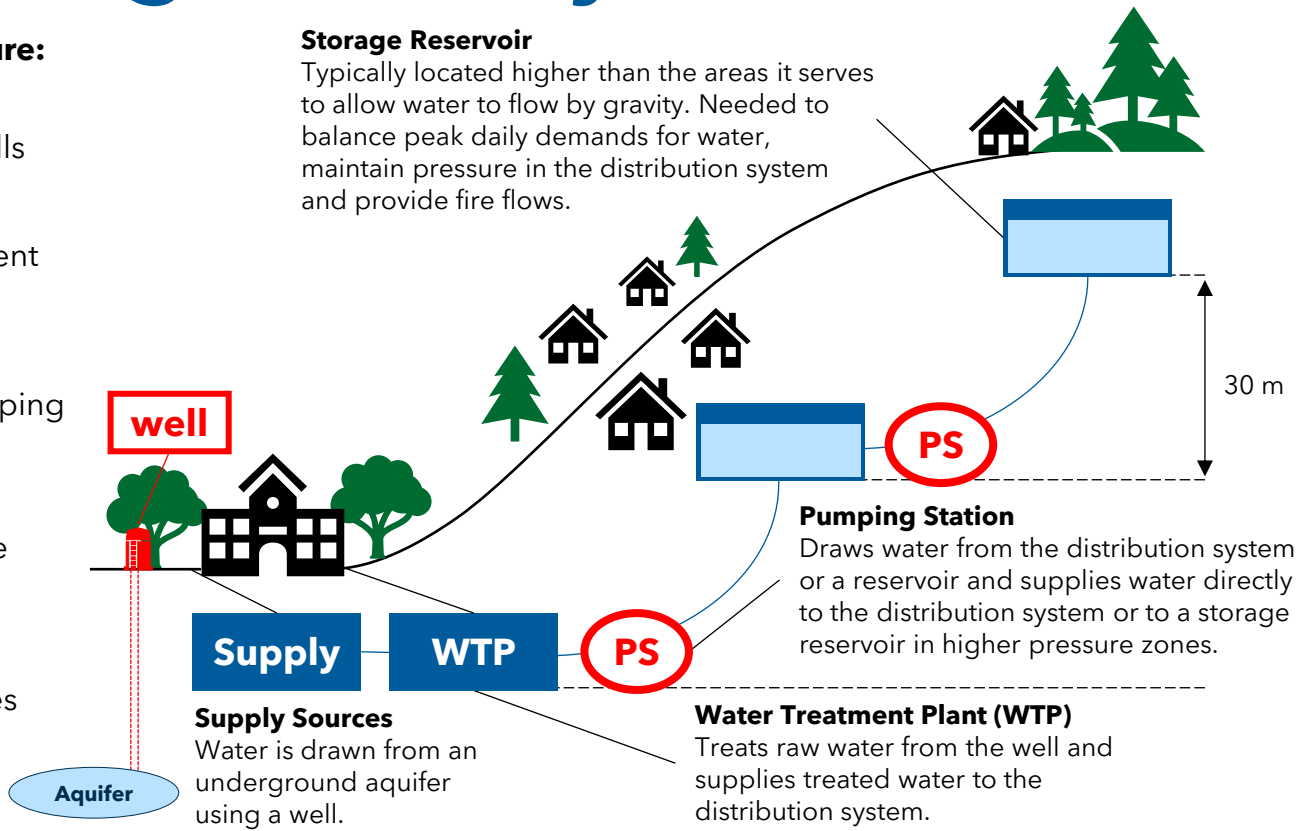
This project is being completed as a Master Plan Study, under Approach 1 of the Municipal Class Environmental Assessment process. Phases 1 and 2 of the Class EA process will be completed.



Key Components of a Groundwater Based Drinking Water System

North Peel Existing Infrastructure:

Supply Sources	• 16 municipal production wells
Water Treatment Plants (WTPs)	• 9 water treatment plants
Pumping Stations (PSs)	• 5 booster pumping stations
Water Storage Facilities	• 6 water storage facilities
Distribution Systems	• 226 km of pipes • 12 pressure zones



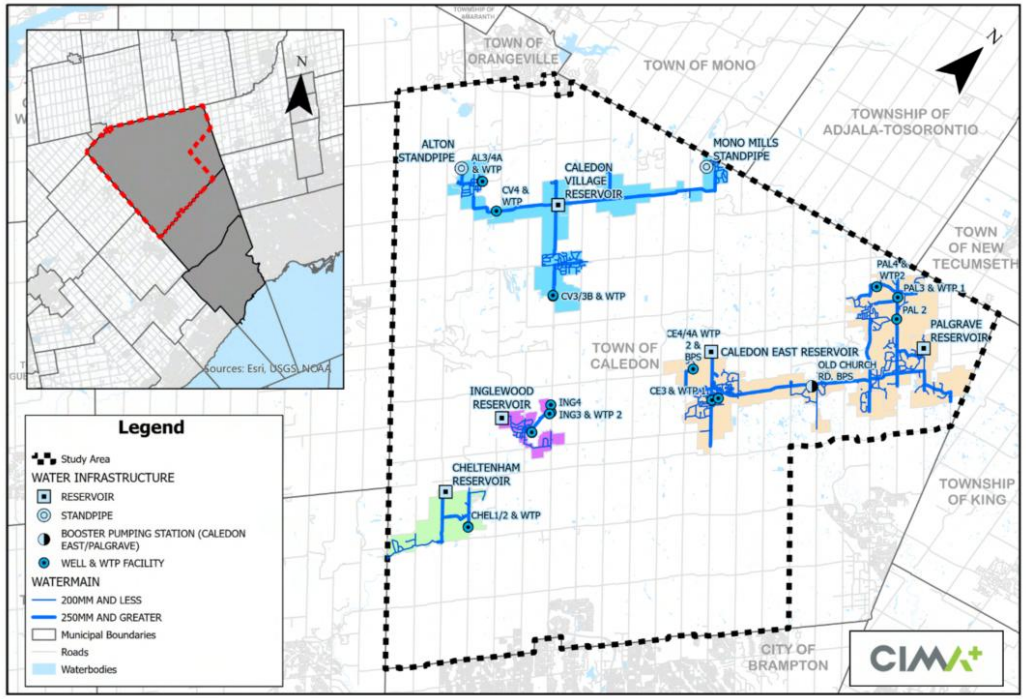
Existing Drinking Water Systems

Four Groundwater-Based Drinking Water Systems (DWS):

- Caledon Village/Alton DWS
- Palgrave/Caledon East DWS
- Inglewood DWS
- Cheltenham DWS
- The systems serve approximately 21,700 people.

Key infrastructure:

- 16 municipal production wells
- 9 water treatment plants
- 6 water storage facilities (in-ground reservoirs and standpipes)
- Approximately 226 km of watermains



This Master Plan will identify long-term servicing strategies to meet the needs of the existing serviced areas and growth areas to 2051.

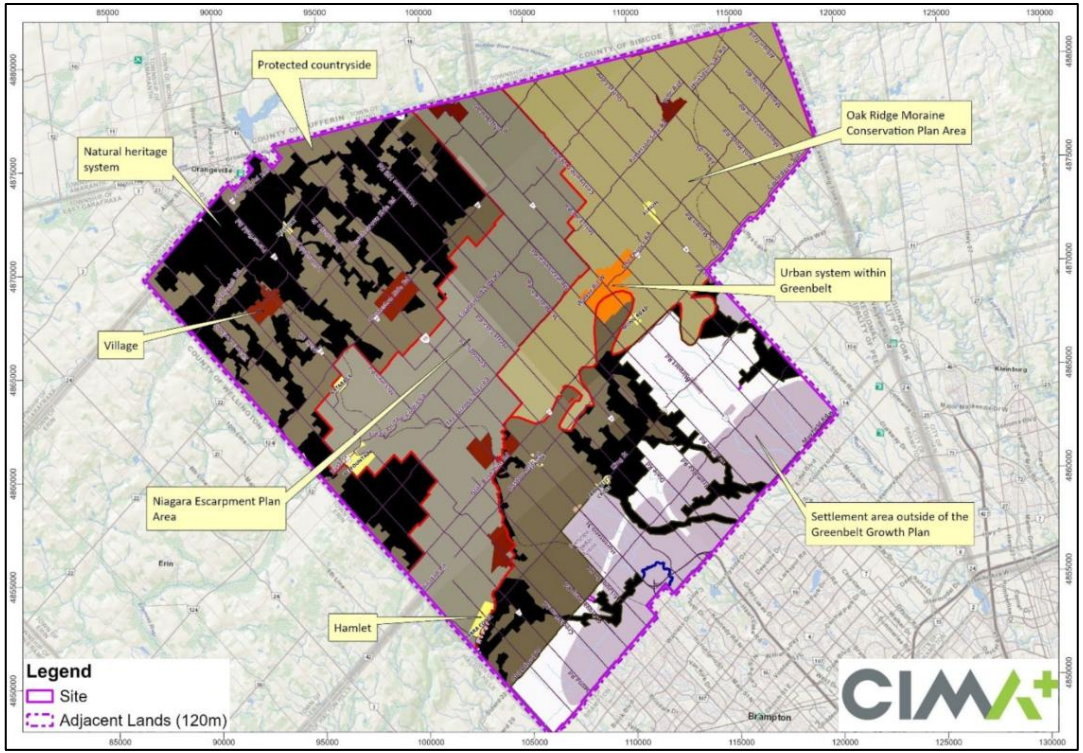
Legislative Context – Land Use

Existing natural environmental features in the Town of Caledon are protected through policies and planning direction set out in:

- The Niagara Escarpment Plan, 2017
- The Oak Ridges Moraine Conservation Plan, 2017 The Greenbelt Plan, 2017
- The Lake Simcoe Protection Plan
- The Growth Plan for the Greater Golden Horseshoe

Conservation authorities with jurisdiction within areas in the Town of Caledon include:

- Credit Valley Conservation
- Toronto and Region Conservation Authority
- Nottawasaga Valley Conservation Authority
- Lake Simcoe Region Conservation Authority



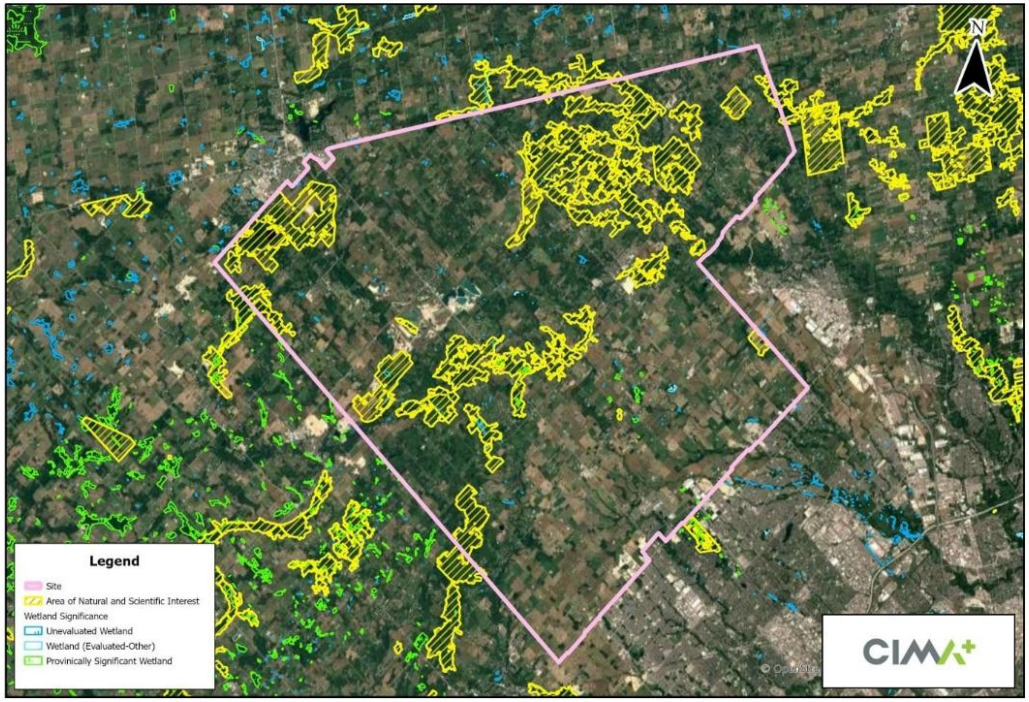
Existing Natural Environmental Setting

Existing known features within the Study Area:

- Provincially Significant Wetlands
- Woodlands
- Areas of Natural and Scientific Interest (ANSIs)
- Fish Habitats

Potential presence of other significant features such as:

- Valley lands
- Species at Risk (SAR) and their habitat
- Significant wildlife habitat



Presence and sensitivity of natural environmental features will be considered in the development and evaluation of alternative water servicing concepts.

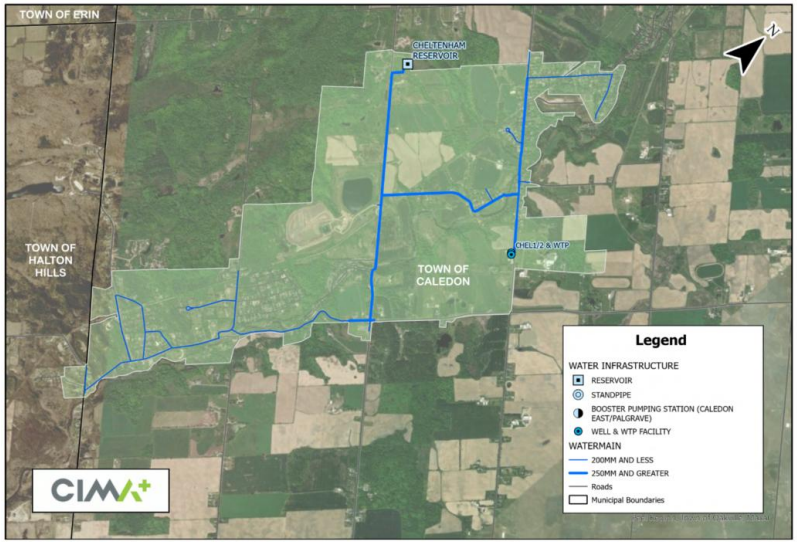
Existing Cheltenham DWS

Communities serviced by the Cheltenham Drinking Water System include:

- Cheltenham, & Terra Cotta

Key water infrastructure:

- 2 Supply Wells (CHEL1 & CHEL2)
- 1 Water Treatment Plant (WTP)
    - Cheltenham WTP (Wells CHEL1 & CHEL2)
- 1 water storage reservoir, Cheltenham Reservoir
- The communities of Cheltenham and Terra Cotta are interconnected within the Cheltenham Drinking Water System via a trunk main along King Street.
- 1 Pressure Zone (CT7)

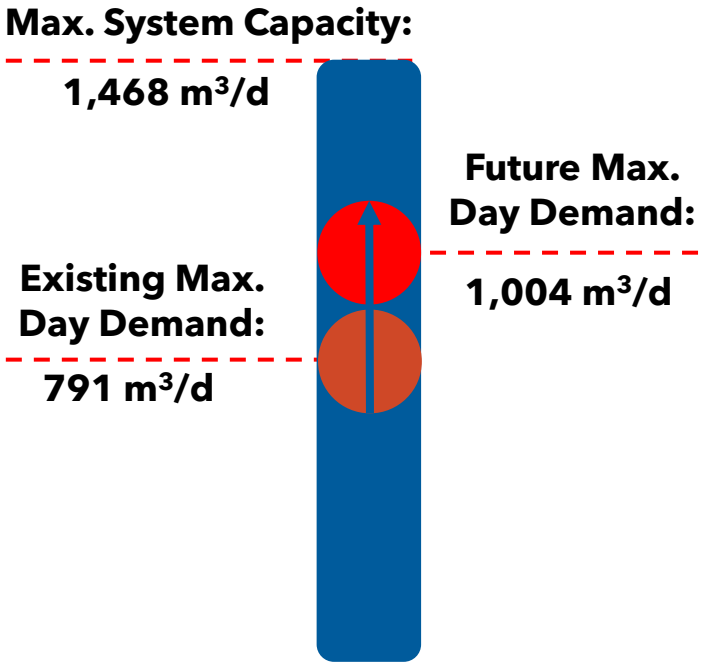



Cheltenham Well House

Planning Projections – Cheltenham

Criteria	Existing 2024	Future 2051
People	760	968
Max. Day Demands	791 m^3/d	1,004 m^3/d

Current system demands are approximately 50% of the system's rated capacity of 1,468 m^3/day.



Opportunities and Constraints – Cheltenham

Opportunities

- Current system has available capacity to meet future needs.
- Potential to add a new well to provide redundancy to the system.

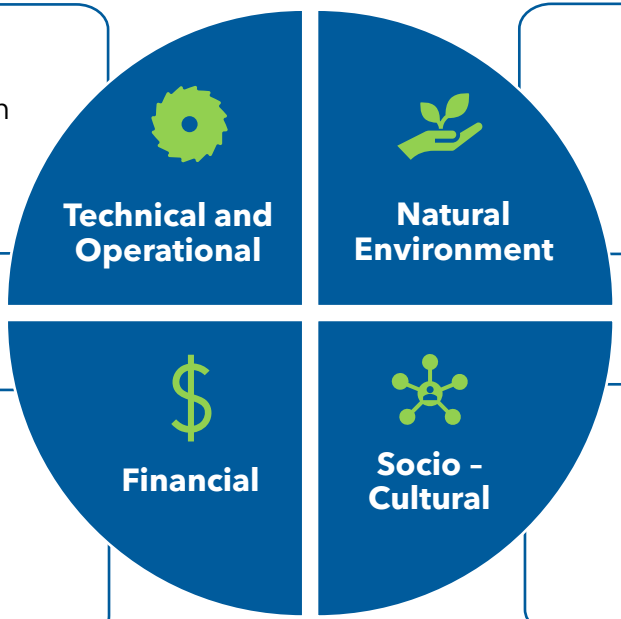
Constraints

- Both wells draw from the same aquifer which limits redundancy.
- Wells are due for a condition assessment.
- Elevation changes throughout the system create areas of low and high pressure.

Developing Servicing Strategies – Evaluation Criteria

Alternative water servicing strategies to be identified in the next stages of the study, will be evaluated against the following criteria:

- System security and reliability
- Levels of service
- Reliability and flexibility of operation
- Use of existing infrastructure
- Constructability impact
- Servicing integration



- Impact to natural environmental features and designations including but not limited to the Greenbelt, Niagara Escarpment, environmentally significant areas, woodlands, wetlands, etc.

- Capital costs
- Operation & Maintenance costs
- Life Cycle costs

- Potential socio-cultural factors such as impacts on residents, areas of archaeological significance, cultural heritage features, aesthetics, noise, dust, traffic, etc.

Common Construction Projects

Examples of common water infrastructure construction projects include:

New watermain installations



Region of Peel Watermain Construction

Drilling new municipal wells



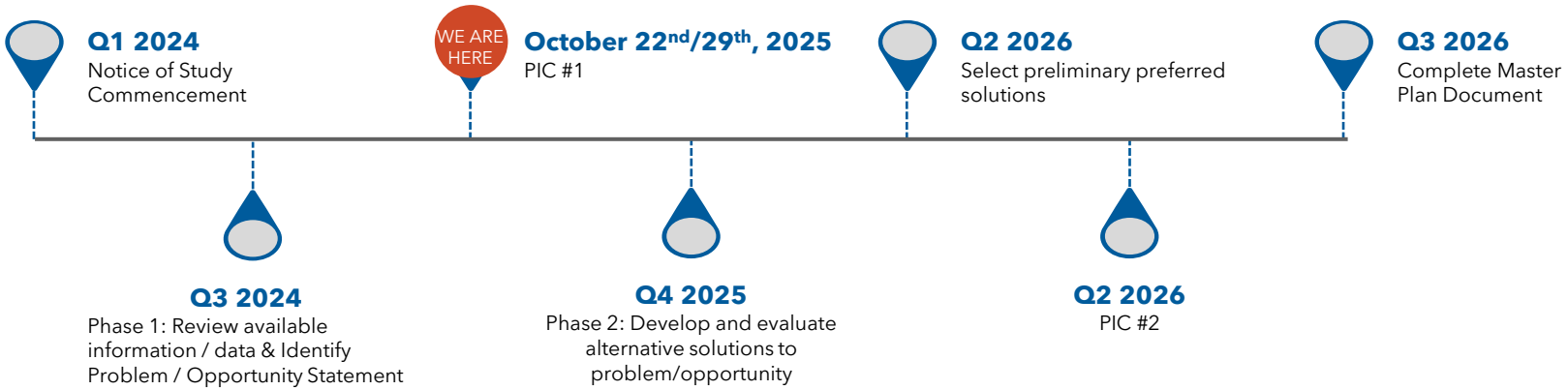


Region of Peel New Well Installation

Next Steps and Project Timeline

After this PIC, the Project Team will:

- Review and consider input received during the Public Information Centre #1.
- Develop and evaluate alternative water servicing options, for each of groundwater-based drinking water system
- Select the Preliminary preferred servicing strategies.
- Hold Public Information Centre #2 to present preliminary recommendations.



III. Q&A

Questions?

Please use the Q&A tab 

or raise hand function and the project team will call on participants to ask any questions.



What matters to you?

- Do you have any existing water servicing issues?
- What are your drinking water priorities?

Thank you for Participating!



Stay Involved!

Please complete a Comment Form

Stay In Touch!

To submit your questions or comments at any time during the project, please contact:

Peel Region

Kamal Adhikary
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CIMA+ Engineering for people

Samuel Ziemann
CIMA+
Samuel.ziemann@cima.ca

Stay Informed!

For more information about this project, please visit our webpage:

https://peelregion.ca/construction/environmental-assessments/master-plan-peels-groundwater