



Township of Mapleton **Water / Wastewater Master Plan Project Information Package**

August 2022

About this Information Package

Purpose of this Information Package



How to Get Involved



Review this information package



Provide comments and questions on this package



Join the study mailing list or contact the Project Team



Attend the in-person Public Information Centre planned for October 2022

What is this Study About?

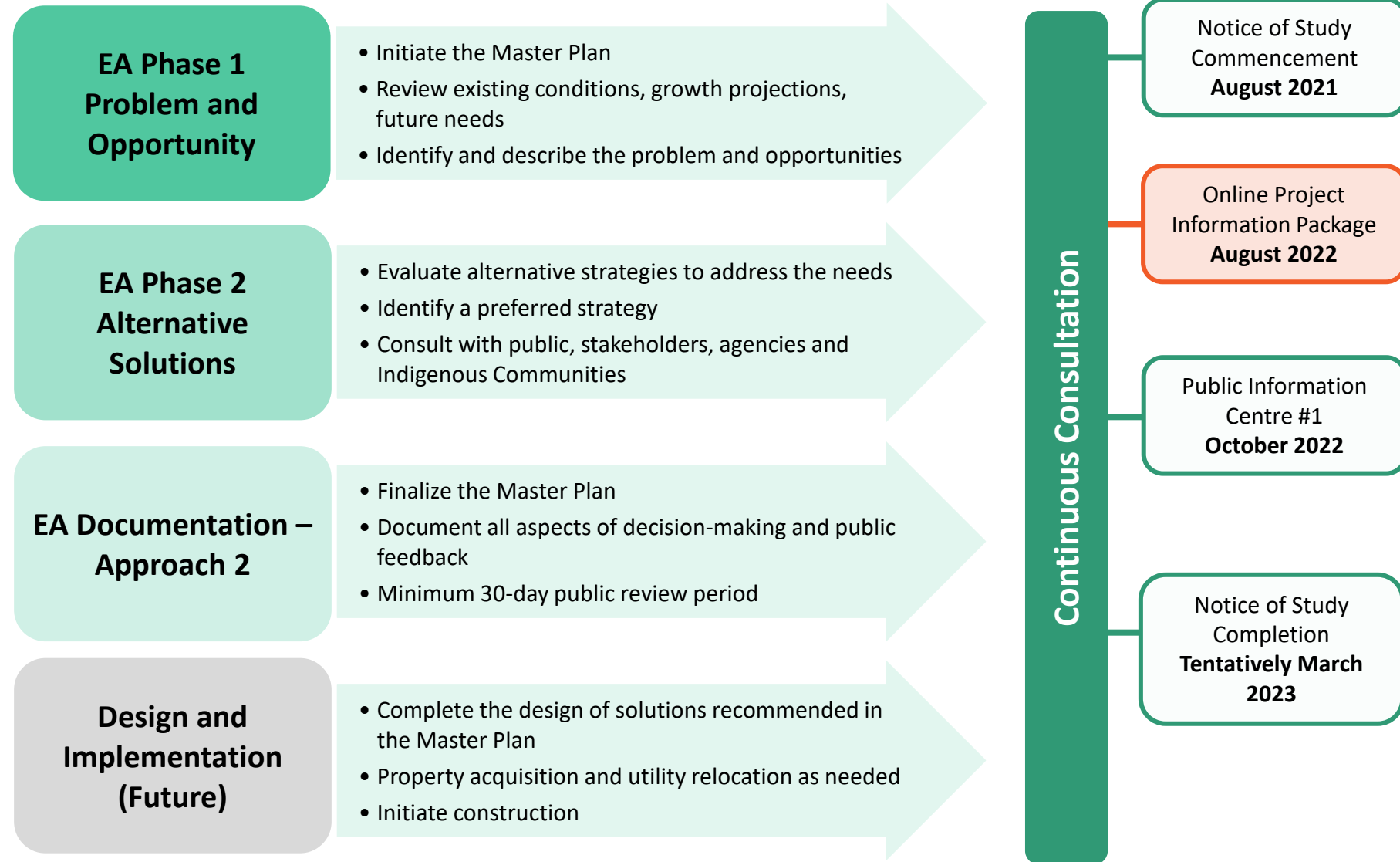
- The Township of Mapleton is undertaking this Water and Wastewater Master Plan to ensure that the Township can continue to deliver high quality and sustainable drinking water and wastewater services to meet the needs of the community now and into the future.
- The Water and Wastewater Master Plan will identify the preferred water and wastewater servicing strategies to support existing and future servicing needs to 2051
- Key aspects of this analysis will include:
 - Review of growth trends and current development pressures
 - Considering an overall evaluation of servicing strategies for the growth areas
 - Developing a detailed understanding of facility upgrade requirements including property, expansion needs and other upgrades
 - Addressing system reliability, effective operational capacities and energy efficiency

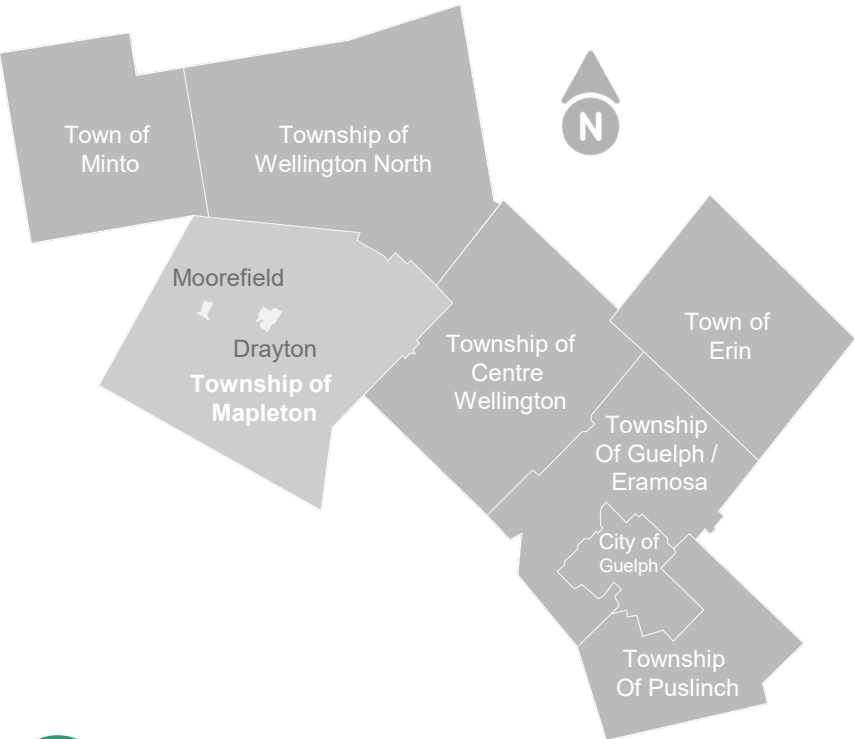
Study Process and Timelines


The Master Plan process is being undertaken in accordance with the **Municipal Class Environmental Assessment** (Class EA), approved under the Ontario Environmental Assessment Act.

This involves two primary study phases that examine existing and future needs and then evaluate possible solutions and strategies that address the needs.

Public, agency, stakeholder and Indigenous Community consultation is embedded throughout this process and around key milestones.





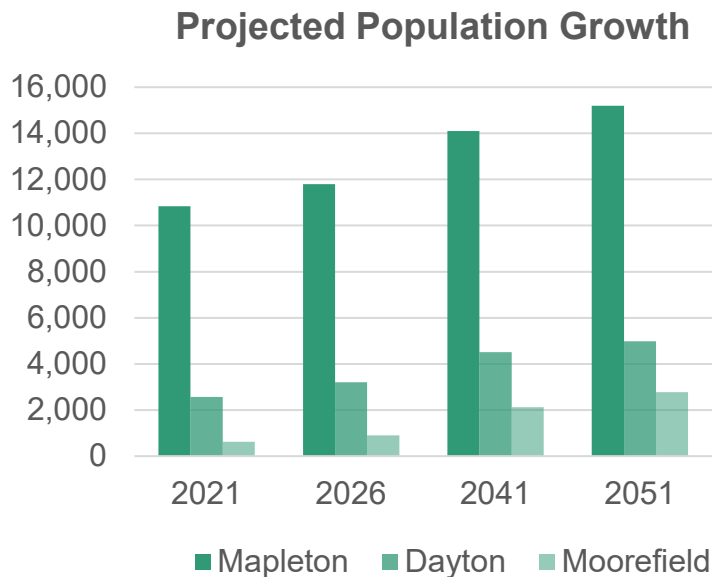
 within the County of Wellington land area of approximately 535.6 km²

 Mapleton | Dayton | Moorefield
10,839 | 2,569 | 620

The Master Planning process will document baseline population and growth projections to 2051. These projections and land use planning are critical to the development of efficient and cost-effective water and wastewater servicing strategies.

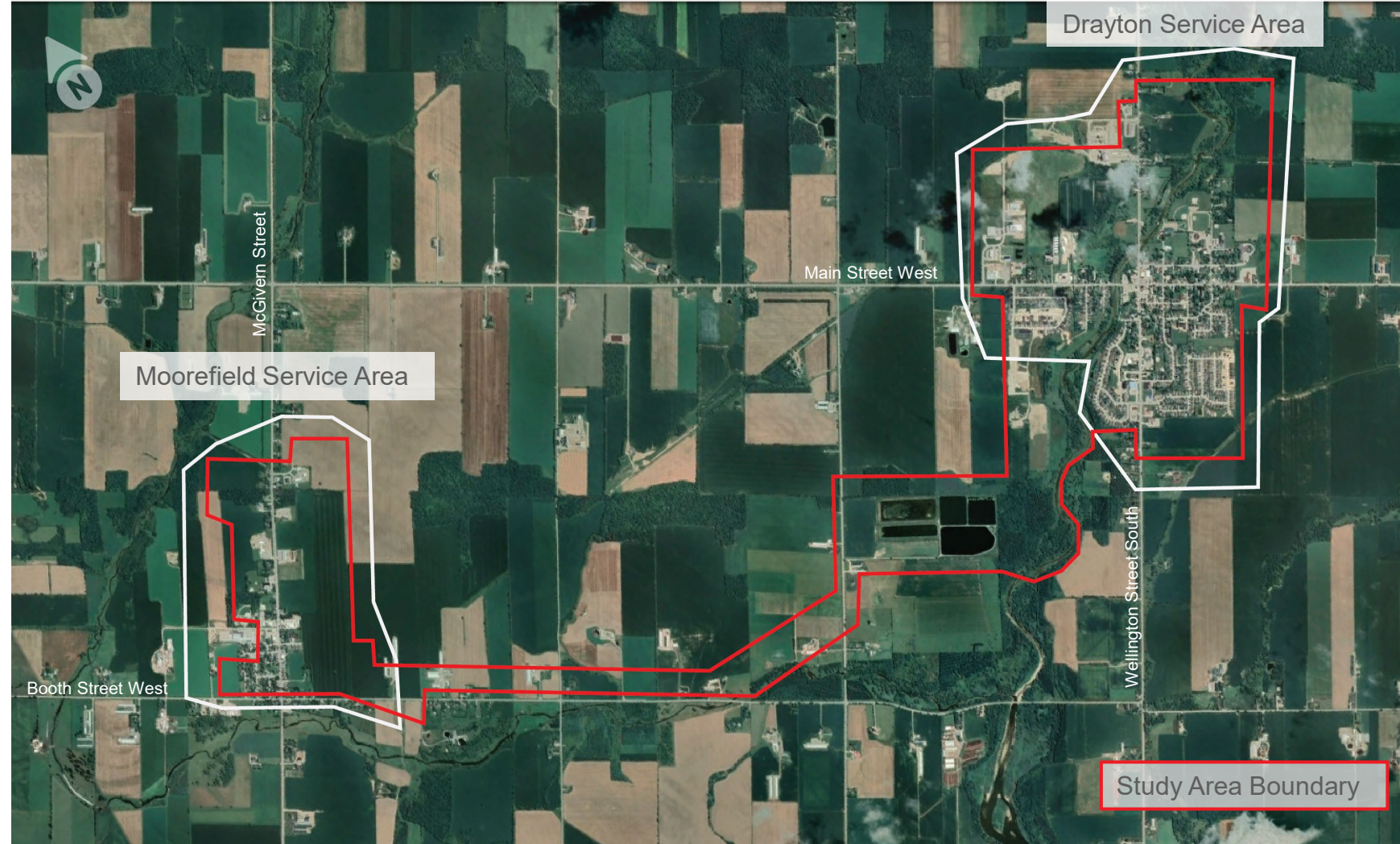
- Population is projected to grow in the County of Wellington
- 82% of this growth will be focused in 14 urban centres, including Drayton and Moorefield
- Among Wellington County’s objectives for growth are these points relevant to the Mapleton Water and Wastewater Master Plan:

-  Existing infrastructure
-  Encourage growth
-  Promote intensification while preserving historic streetscapes
-  Encourage increased densities in designated Greenfield areas of urban centres



Existing Service Areas

- The Township has two (2) designated urban centres, namely Drayton and Moorefield, as well as seven (7) rural hamlets, including Alma, Glen Allan, Hollen, Lebanon, Rothsay, Wallenstein, and Yatton
- Drayton and Moorefield are serviced by both municipal drinking water systems and wastewater collection and treatment systems
- The hamlets are not serviced by municipal drinking water systems or wastewater collection or treatment systems
- At this time, only Drayton and Moorefield will be the focus this Master Plan



Existing Service Areas

Moorefield Drinking Water System
Pumphouse and Standpipe



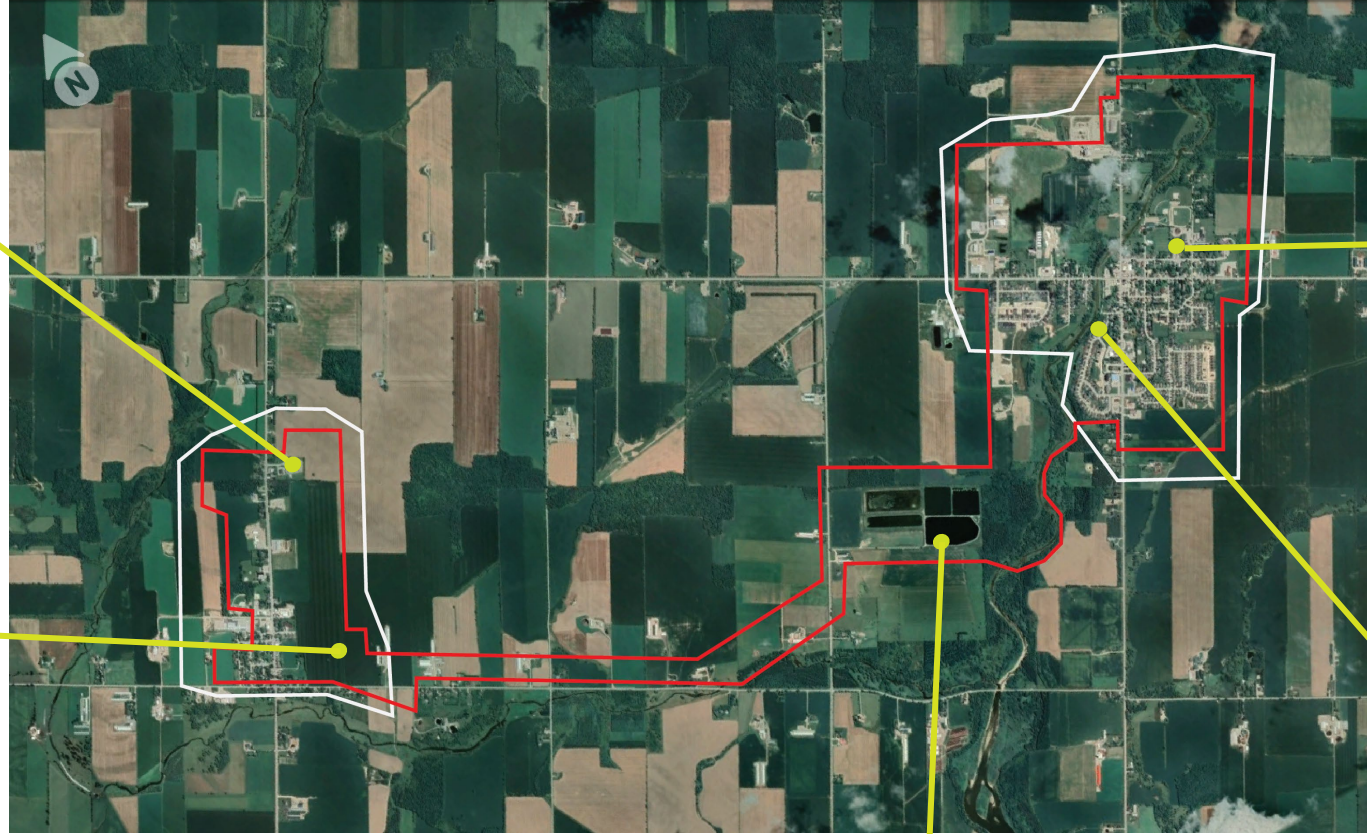
Moorefield Sewage Pumping Station



Drayton Drinking Water System
Pumphouse



Drayton Sewage Pumping Station

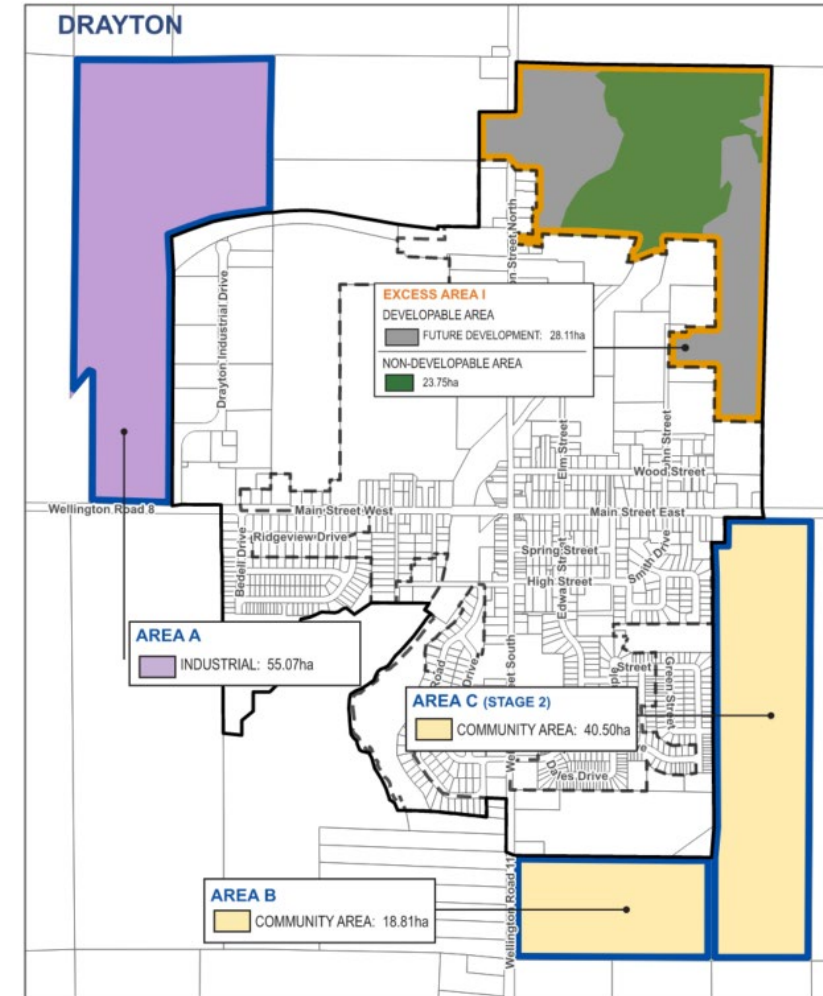
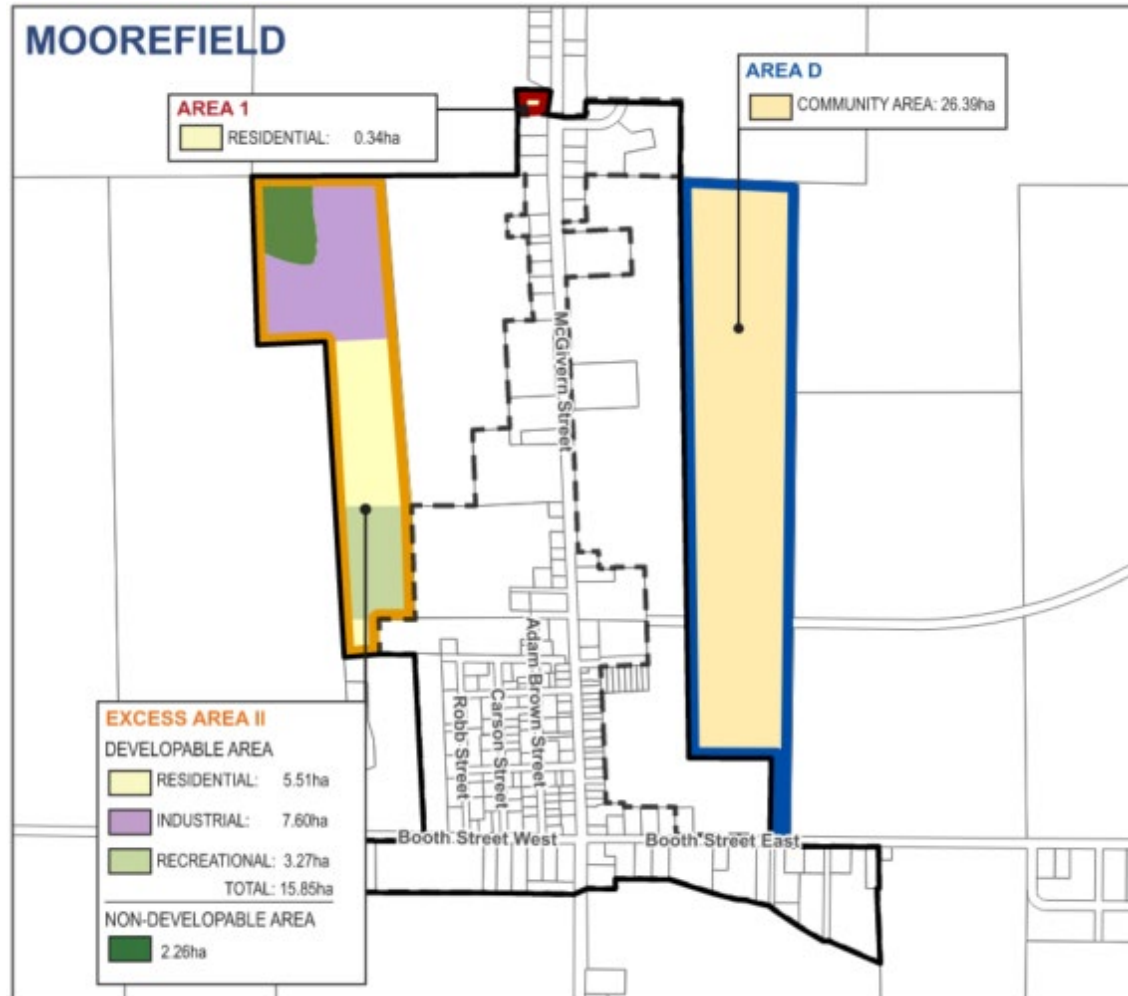


Mapleton Wastewater Pollution Control Plant



Future Servicing Considerations

- We are considering planned/approved community growth in Moorefield and Drayton



Mapping Source: GSP Group. (2022). Township of Mapleton Growth Management Summary - Final Report. Township of Mapleton.

Based on our review to date, the following opportunities have been identified for water and wastewater servicing upgrades.

Wastewater Servicing

- Mapleton Water Pollution Control Plant
 - Uncommitted reserve capacity
 - Anticipated nitrogen removal upgrades
 - Interim and future phosphorus removal upgrades
- Drayton collection system, pumping station and forcemain*
- Moorefield collection system, pumping station and forcemain*

*Forcemain: pipelines that convey wastewater under pressure

Water Servicing

- Drayton Drinking Water System
 - Supply and treatment capacities
 - Storage for equalization and emergencies**
 - Distribution system limitations
- Moorefield Drinking Water System
 - Supply and treatment capacities
 - Storage for equalization and emergencies
 - Distribution system limitations

**Storage is being addressed through the Drayton Elevated Tower

Ongoing and upcoming steps in the Master Plan study:

- Evaluate the range of alternative strategies to address the deficiencies and needs
- Formally evaluate the alternative strategies considering a variety of factors and criteria
- Identify preliminary preferred water and wastewater strategies
- Present the preliminary preferred strategies to the Public at a Public Information Centre planned for October 2022. This will be advertised under separate notice.

If you have any questions or wish to be added to the study mailing list, please contact us at:



Adam Moore
Consultant Project Engineer
CIMA+
Adam.moore@cima.ca

The Notice of the Public Information Centre will be advertised and sent directly to those on the study mailing list.