



# **WELCOME**

## **Hastings Wastewater Treatment Facility Expansion Schedule C Municipal Class EA**

### **Public Information Centre**

Tuesday, August 26<sup>th</sup>, 2025

6:00 pm to 8:00 pm

Location: Hastings Civic Centre

6 Albert St E, Hastings

# Key Instructions for this Meeting

## Public Information Centre

1

**Please Sign in**  
Meeting is a “Drop-in” format.

2

**Review Display Materials**  
Our representatives will be pleased to discuss the study, or any questions or concerns that you may have.

3

**Complete a Comment Sheet**  
Drop off your completed Comment Sheet in the Box tonight or return it to the people shown on the Comment Sheet by August 26<sup>th</sup>, 2025.

# Why are we here tonight?

The Municipality of Trent Hills is undertaking a **Schedule C Municipal Class Environmental Assessment (Class EA) Study** to select the preferred alternative to meet future wastewater treatment demands in the Village of Hastings.

## Objectives of this **Public Information Centre**:



Introduce the project and its background



Present alternative options considered for increasing the wastewater treatment capacity at Hastings and the preliminary recommendations



Receive comments from the public about the preliminary preferred alternative chosen from the recommendations

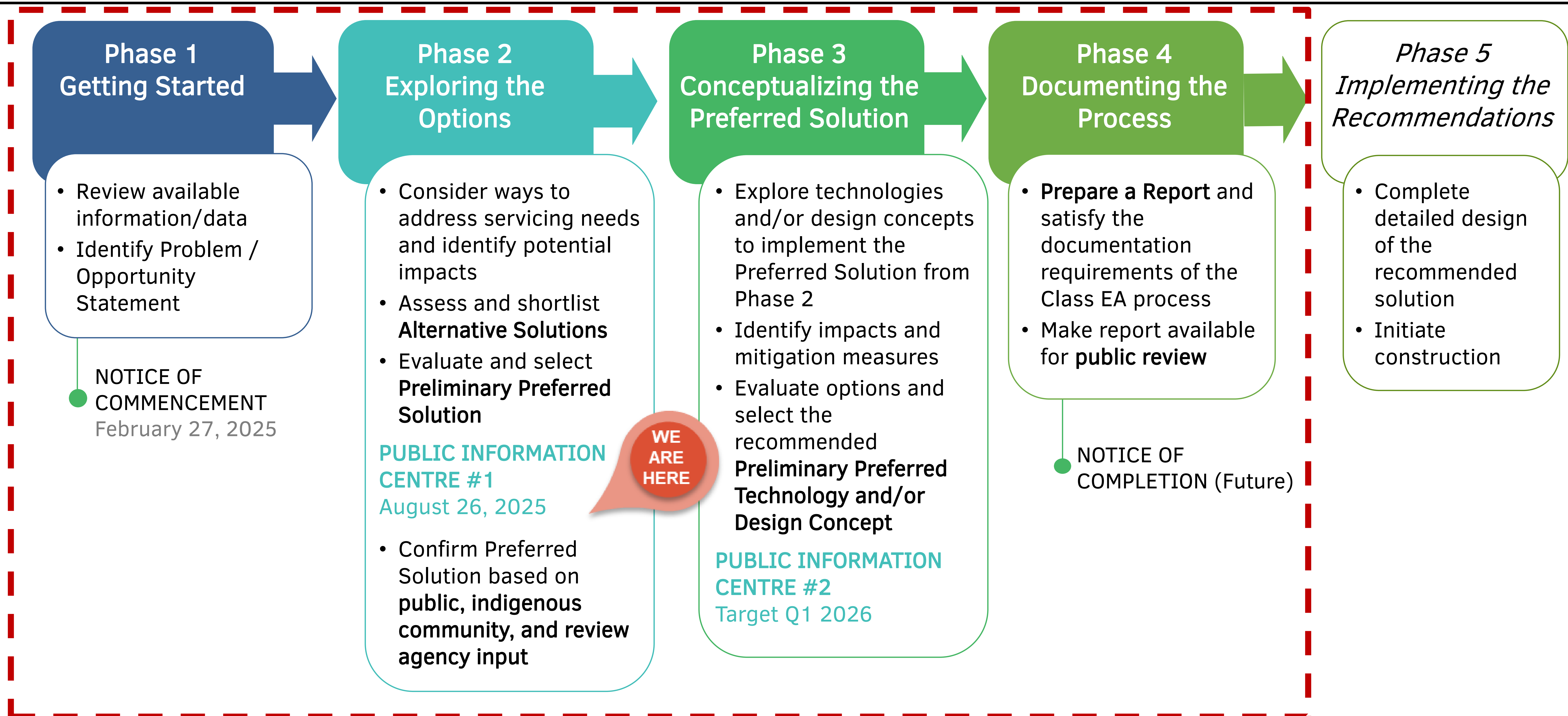


# Class EA Context

- The Class EA process meets the **Ontario's Environmental Assessment Act (EAA)** by identifying problems or opportunities, and identifying, evaluating and selecting a preferred means of addressing the problems or opportunities.
- A Class EA study enables the planning and implementation of municipal infrastructure to be undertaken in accordance with an approved procedure designed to protect the environment.
- Water and wastewater projects/activities are discussed in **Part C of the Municipal Class EA planning process**.
- **Schedule C Class EA** projects have the potential for more significant environmental effects.
- Municipalities are required to prepare an **Environmental Study Report (ESR)** for **Schedule C Class EA** projects for review by the public, Indigenous Communities, and review agencies.



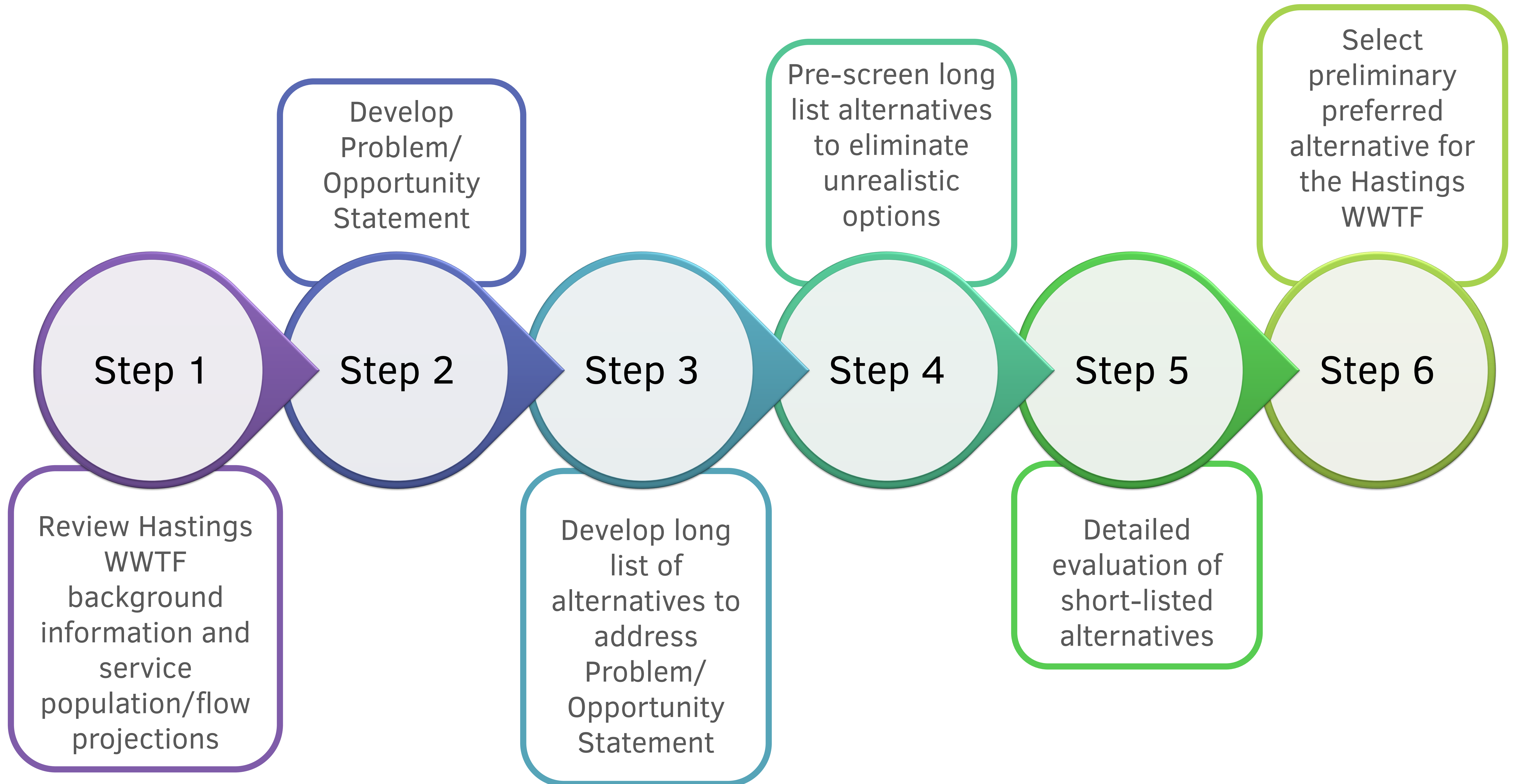
# Class EA Process



*Phases 1, 2, 3 and 4 of the Class EA Process will be completed during the Class EA.*

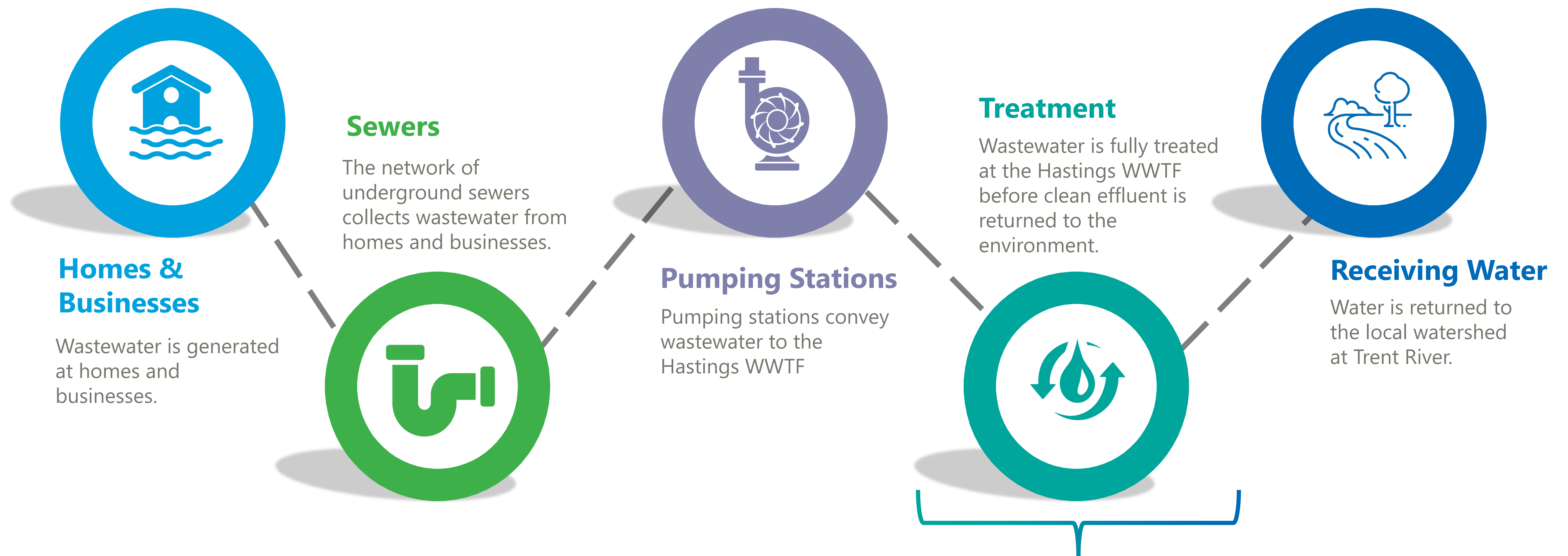


# Process for Phase 1 & 2 of Class EA



# How does the Village of Hastings manage wastewater?

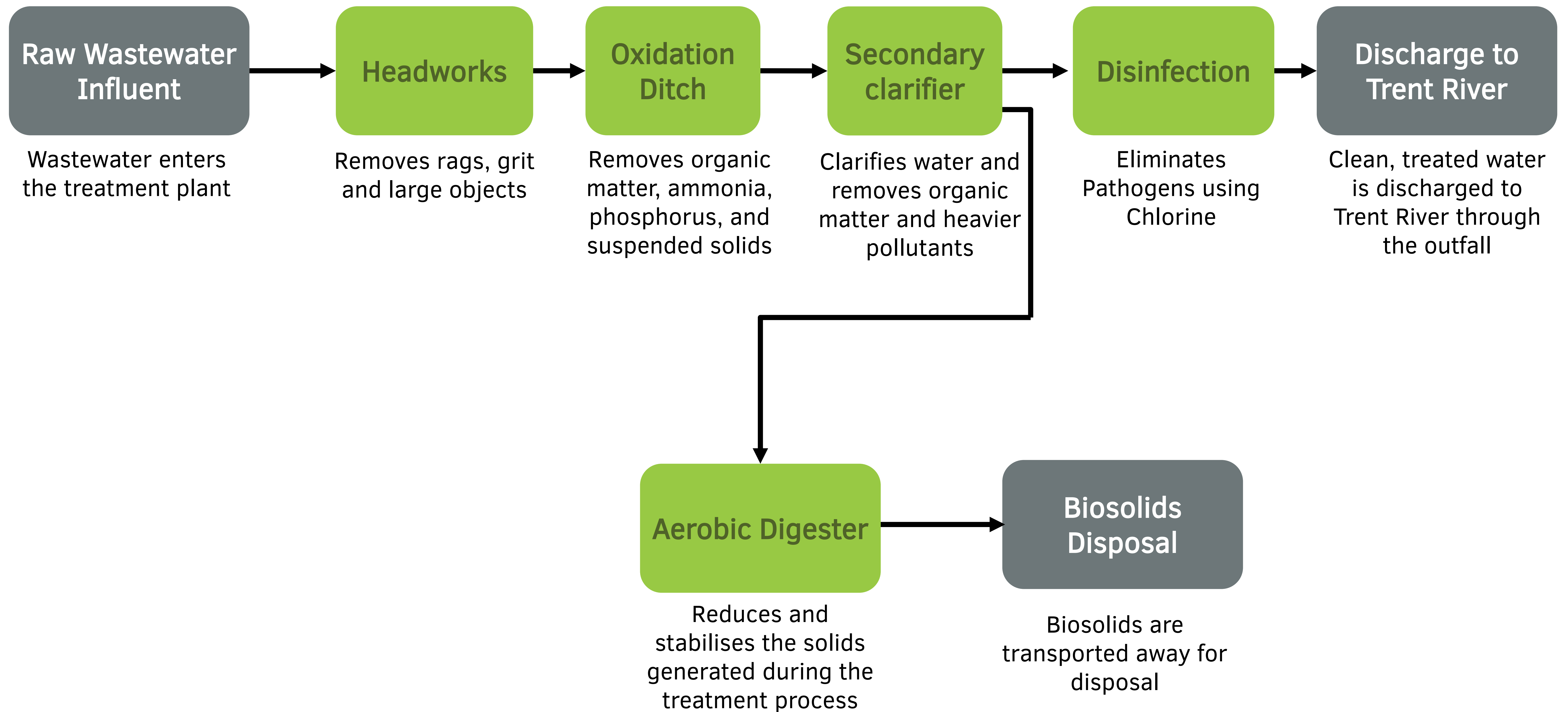
Wastewater treatment for the Village of Hastings is currently provided by the Hastings Wastewater Treatment Facility (WWTF). The treatment progression is as follows:



This Class EA study is focused on upgrading the WWTF to accommodate growth within the urban boundary of the Village of Hastings



# How is wastewater treated at Hastings?

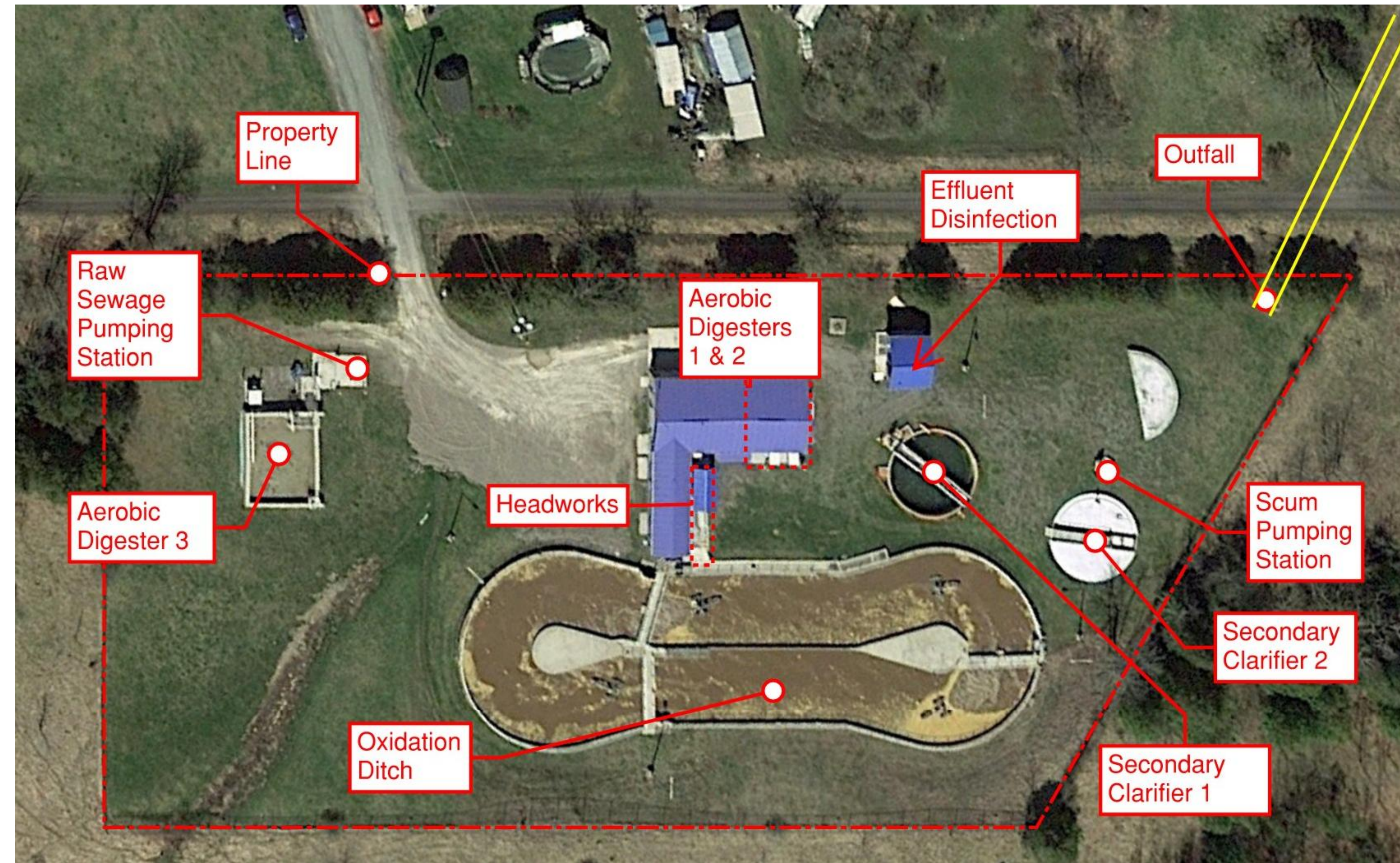




# Existing Hastings WWTF

- ❖ Originally constructed in 1976, and upgraded in 2010
- ❖ Currently serves 1,562 people
- ❖ Current Average Day Flow: 763.4 m<sup>3</sup>/d
- ❖ Rated Capacity: 1,060 m<sup>3</sup>/d
- ❖ Peak Daily Flow Capacity: 3,236 m<sup>3</sup>/d
- ❖ The Hastings WWTF is currently operating at 72.1% of its rated capacity.

Typically, the planning process to evaluate the future needs of a WWTP begins when average day flows reach 80% of the rated capacity.

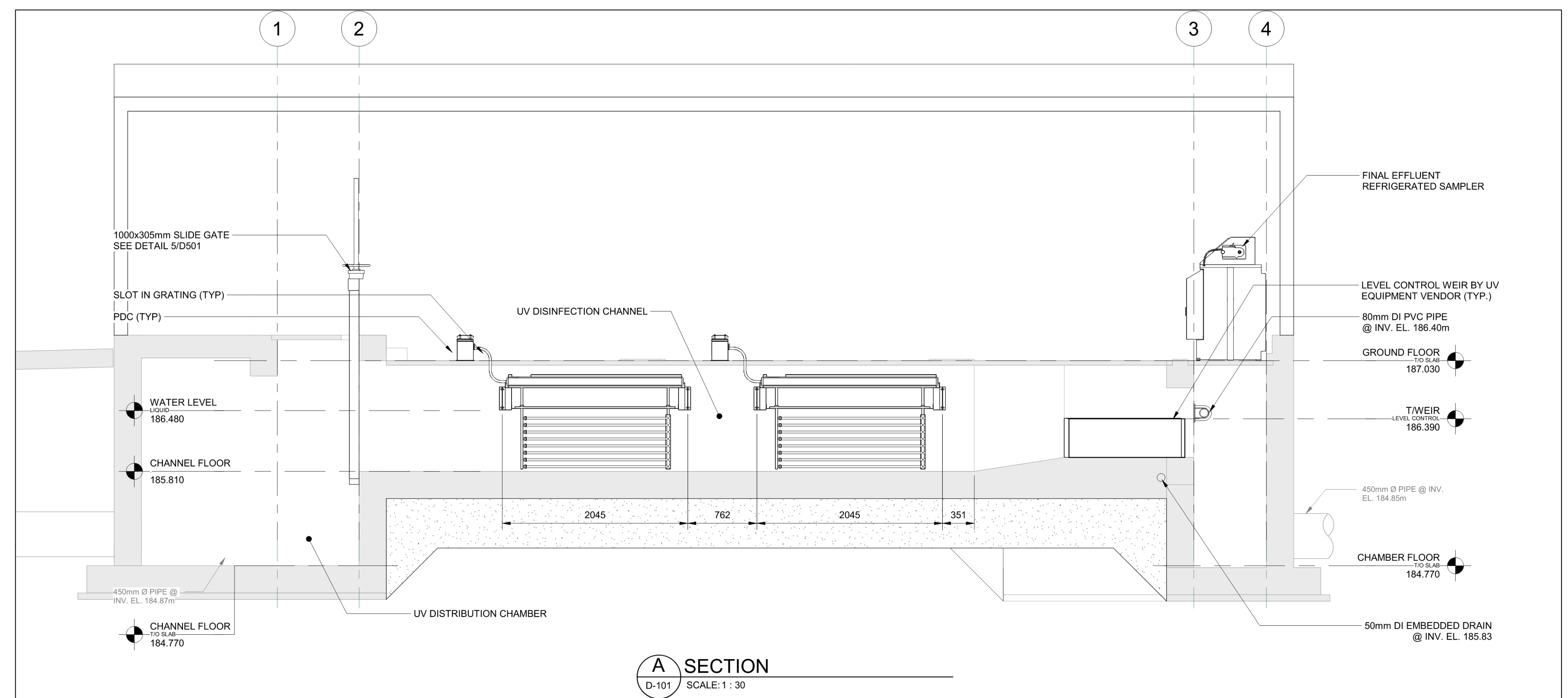


- ❖ Currently, the Hastings WWTF is having trouble meeting the final effluent E.coli objectives in certain months.
- ❖ Upgrades include expanding the plant's treatment capacity, as well as Disinfection Upgrades to meet effluent limits regularly and more efficiently



# Hastings WWTF – Disinfection Upgrades

- ❖ Disinfection Upgrades are currently underway at the Hastings WWTF to replace the existing chlorine-based disinfection with UV disinfection.
- ❖ The upgrades will improve compliance with effluent E. Coli objectives.
- ❖ The upgrades follow the same design basis and tie-in with the overall plant upgrades.
- ❖ Given the proposed UV building's small footprint, the upgrades can be situated within the existing project site and avoid conflict with upgrades to the other processes.

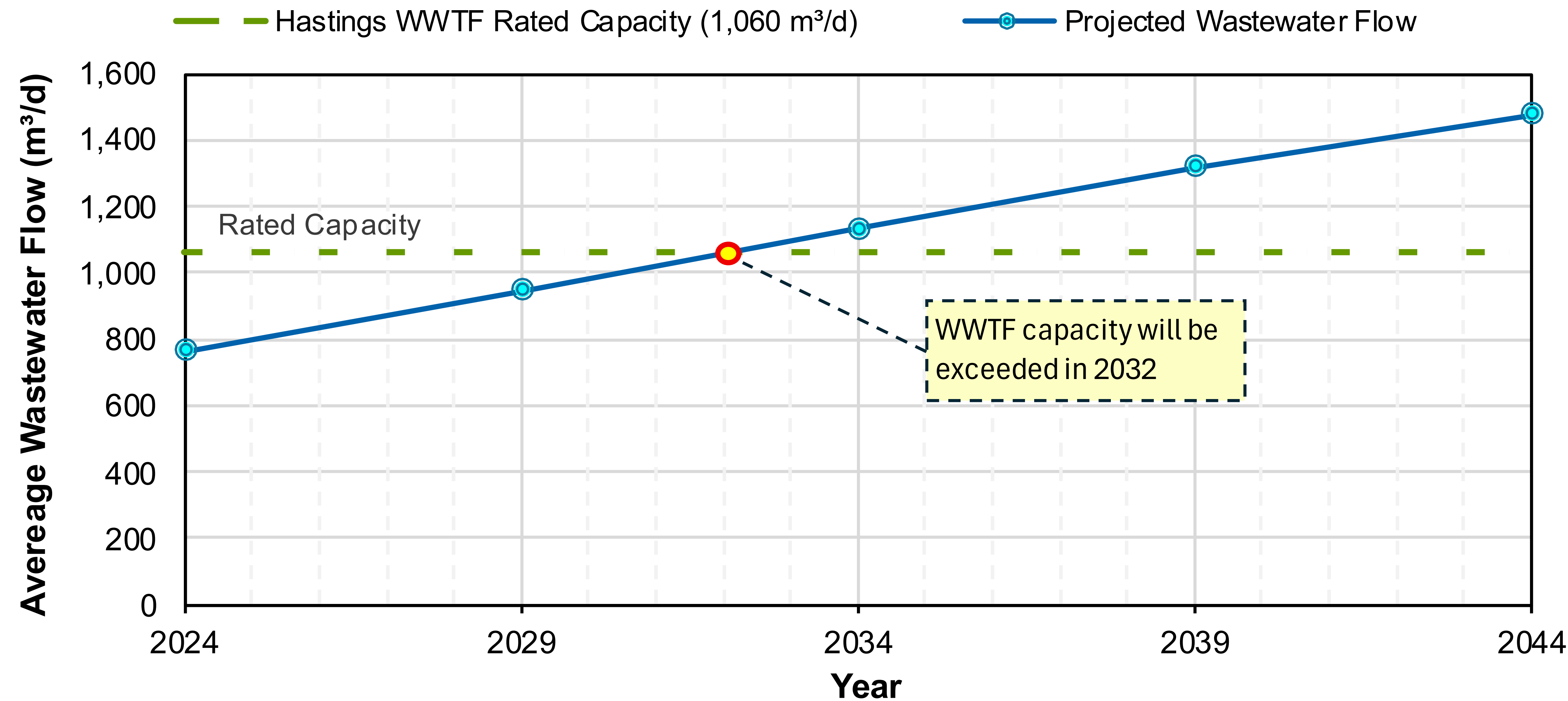




# Hastings WWTF Existing/Future Conditions

Parameter	Existing	Future (2046)
Service Population	1,562	3,098
Average Day Flowrate, m <sup>3</sup> /d	763.4	1,478
WWTP Rated Capacity, m <sup>3</sup> /d	1,060	1,478

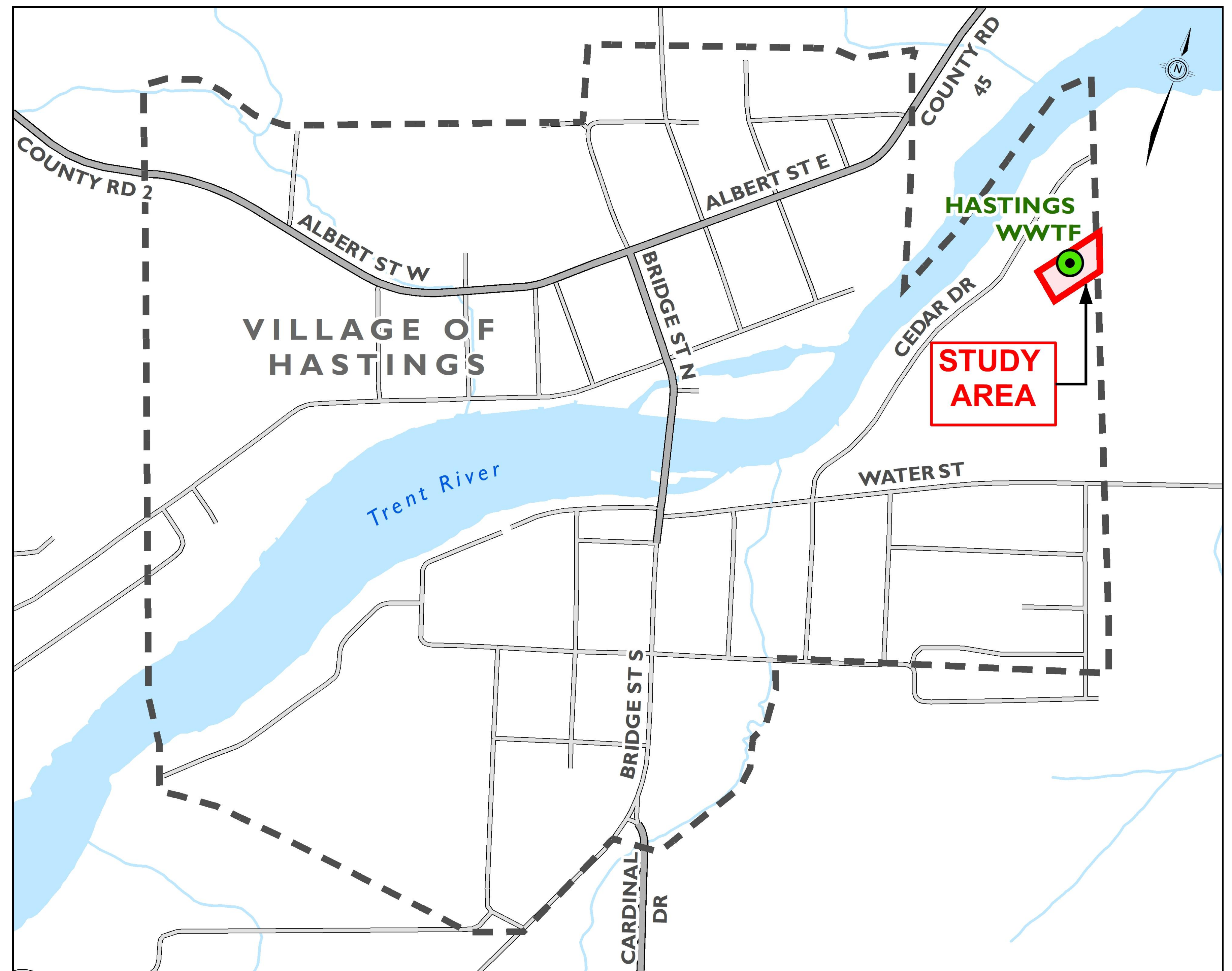
Wastewater flow projections at the Hastings WWTF





# Problem/Opportunity Statement

The Village of Hastings is anticipated to grow from its current population of 1,562 persons to a buildout population of 3,098 persons. Current flow conditions exceed the rated capacity of the existing Hastings WWTF several times per year. The Hastings WWTF requires short and long term upgrades to achieve compliance and facilitate planned and future growth within the Urban Boundary.



Study Area Limits – Hastings WWTF

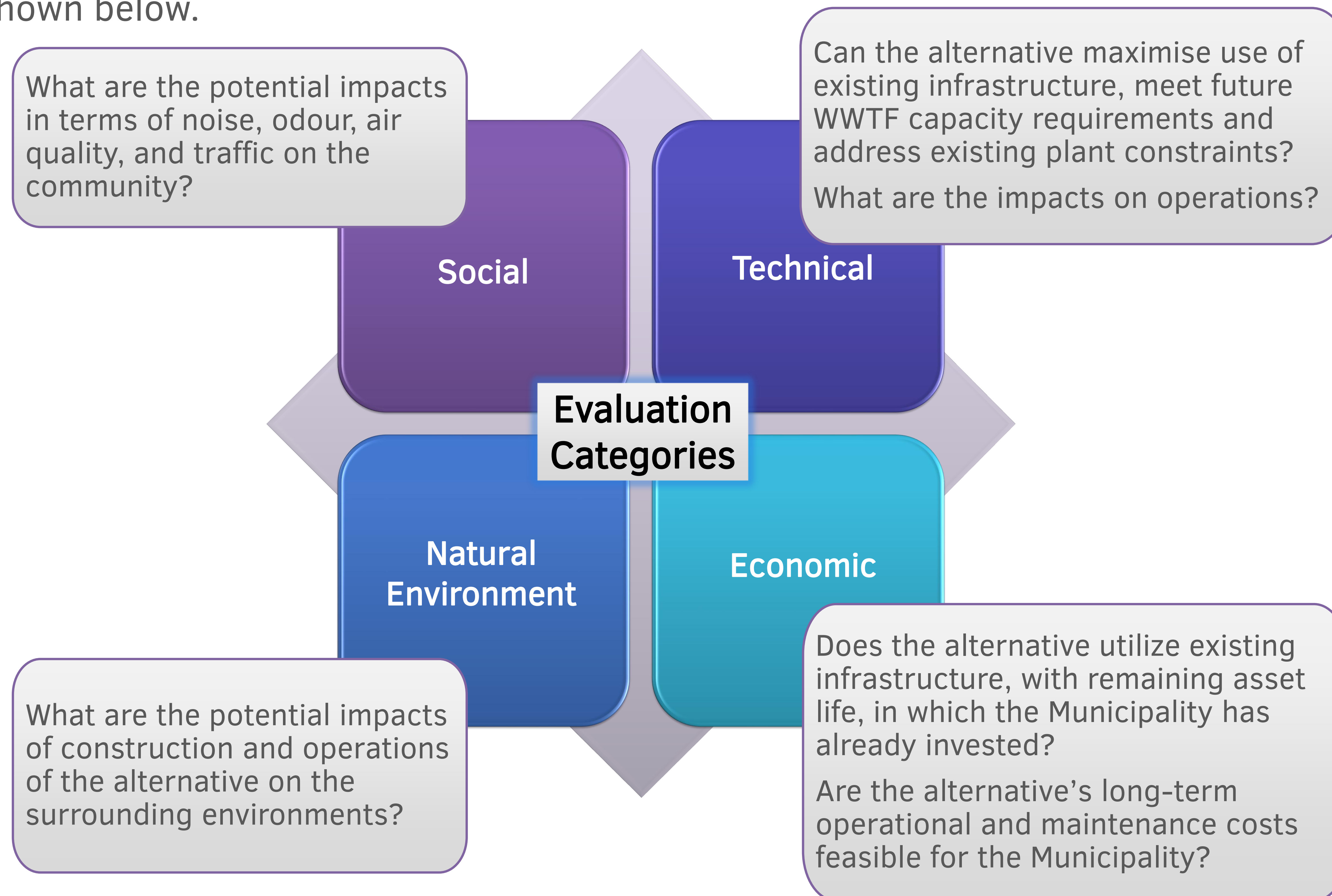


# Long List of Alternatives – Pre-Screening

	Alternative Servicing Strategy	Pre-Screening Assessment	Shortlisted
1	Do Nothing	<ul style="list-style-type: none"> <li>Does not address existing or anticipated plant limitations, nor the capacity limitations at the Hastings WWTF</li> <li>WWTF will fail to service predicted population growth and developments</li> </ul>	No
2	Limit Growth	<ul style="list-style-type: none"> <li>Limiting the community growth is inconsistent with the Municipality's objectives and planning initiatives</li> <li>Does not address the constraints of the existing plant.</li> </ul>	No
3	Expand the existing WWTP	<ul style="list-style-type: none"> <li>The capacity of the existing WWTP can be upgraded through a plant expansion, to accommodate increased wastewater flows and address existing plant limitations</li> </ul>	Yes
4	Replace with new WWTF at a different location	<ul style="list-style-type: none"> <li>A second WWTP can treat future wastewater flows anticipated from population growth and developments</li> <li>Existing plant limitations could be addressed</li> <li>Involves reconfiguration of the wastewater collection system and construction of a new WWTF, and potential new outfall and pumping stations</li> </ul>	Yes
5	Send wastewater (export) to other systems for treatment	<ul style="list-style-type: none"> <li>The nearest WWTP is approximately 19 km away (Campbellford WWTP)</li> <li>Requires new pumping station and connection line to the Campbellford WWTP and associated upgrades</li> <li>Not ideal for long term planning. Capital costs very high. More cost effective to construct a new WWTF.</li> <li>Hence, financially unjustifiable and not practical for the Municipality</li> </ul>	No
6	Decentralized wastewater systems for new developments	<ul style="list-style-type: none"> <li>Likely limits growth which is inconsistent with the Municipality's objectives and planning initiatives</li> <li>Does not address existing plant limitations, nor the capacity limitations at the Hastings WWTF</li> </ul>	No

# Evaluation Categories

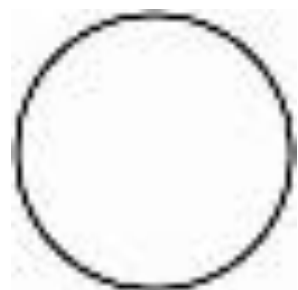




The project team established four (4) evaluation categories (Social, Technical, Natural Environment, and Economic) to evaluate the impacts and benefits of each short-listed alternative relative to each other. Examples of the questions which were asked to evaluate each alternative's impact or benefit within each category are shown below.





# Evaluation Scoring

Short listed alternatives were assessed relative to each other and assigned a score for each evaluation category based on feasibility, complexity and other applicable aspects. Scores were assigned based on the following scoring approach:

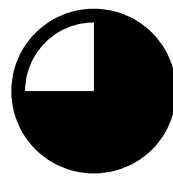
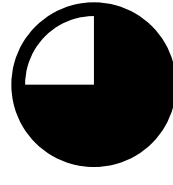
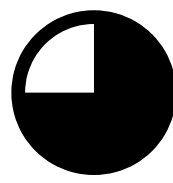
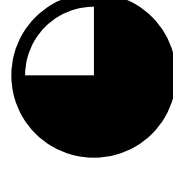
				
Scores according to the evaluation criteria are very low. The losses are far greater than the gains.	Scores according to the evaluation criteria are low. Implementation would require extensive mitigation measures to reduce impacts.	Scores according to the evaluation criteria are moderate. The gains are on par with the losses.	Scores according to the evaluation criteria are moderately high, with some drawbacks. The gains outweigh the losses.	Scores according to the evaluation criteria are relatively high. Good feasibility, low complexity and provides a viable solution.

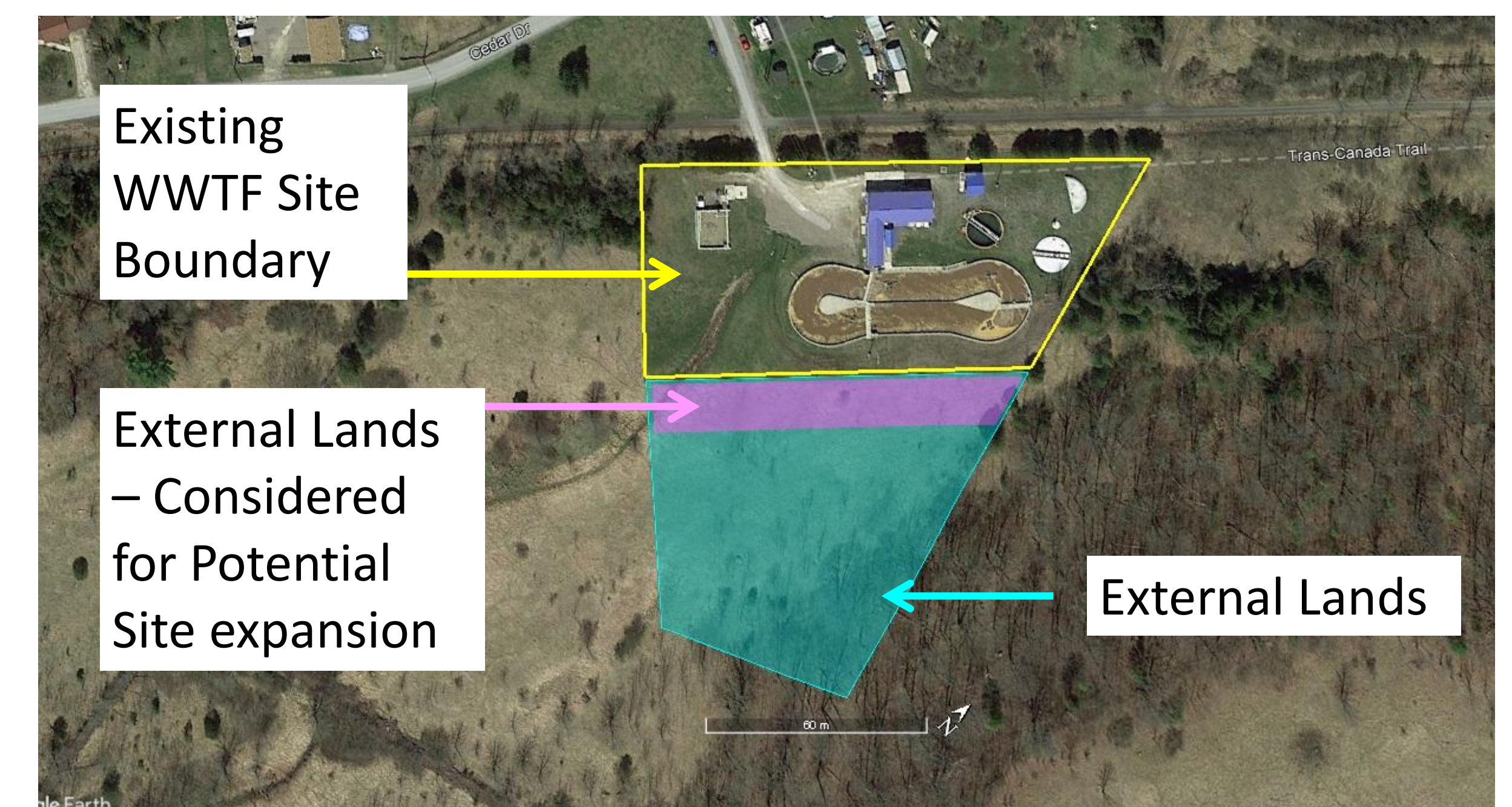
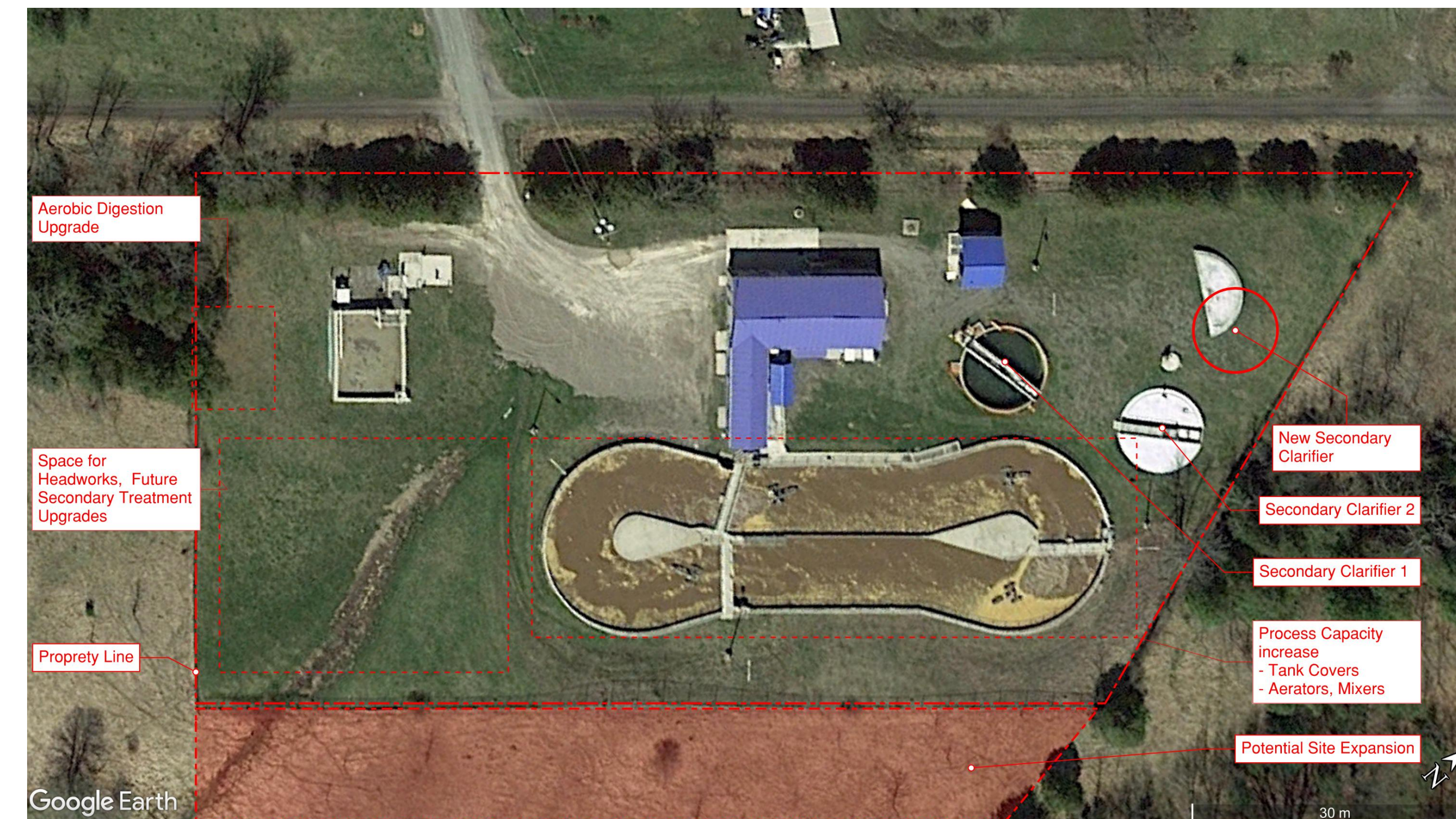
Least Preferred

Most Preferred



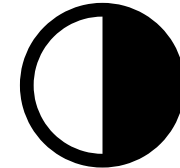
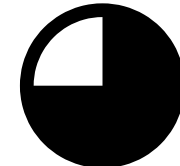
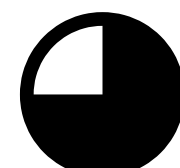
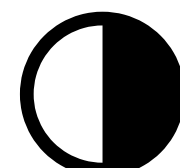
# Alternative 3 – Expand the Existing WWTP

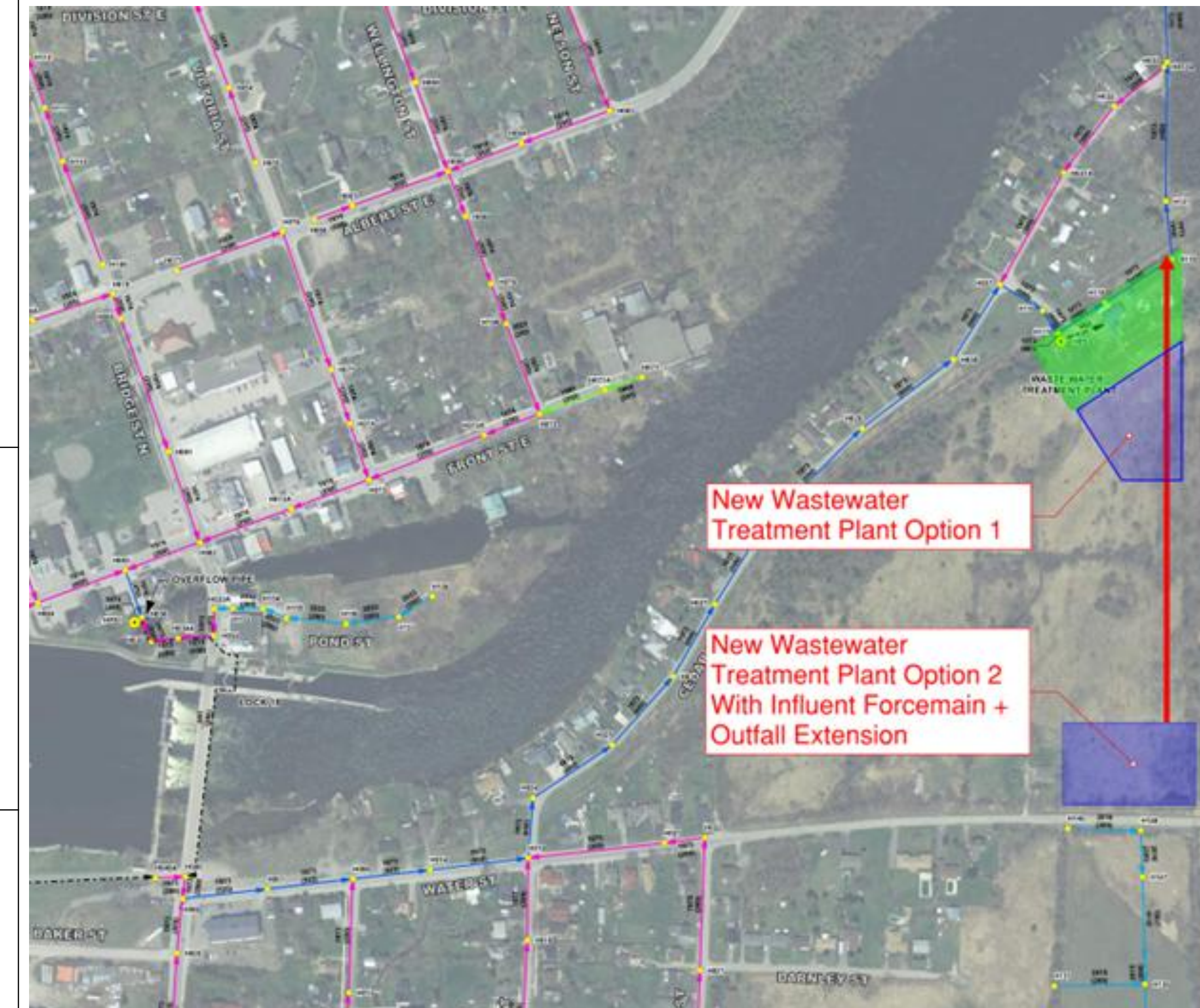
RATING CONSIDERATIONS		
<b>Social</b>	<ul style="list-style-type: none"> <li>Increased truck traffic with increasing capacity</li> <li>Some constraints with existing facilities' layout.</li> <li>Noise, dust/mud, air quality, and traffic are anticipated only during construction period. Shorter construction period required.</li> <li>No change in noise, dust/mud, air quality anticipated during operation.</li> <li>No anticipated change in odour impacts. Currently no known odour issues at the WWTP.</li> </ul>	
<b>Technical</b>	<ul style="list-style-type: none"> <li>Reuse of existing outfall; No change to collection system/ sewers.</li> <li>Upgrades provide more capacity to treat and reliability upgrades for more redundancy.</li> <li>Retrofit of existing facility may be challenging for design and construction considering continuous operation of existing WWTP must be maintained &amp; with construction around the existing facilities &amp; associated constraints</li> <li>Less construction scope than other alternative</li> </ul>	
<b>Natural Environment</b>	<ul style="list-style-type: none"> <li>Impacts on the aquatic environment during operation are anticipated to be similar to existing plant operation.</li> <li>Increased truck traffic with plant load.</li> <li>Conventional Technologies to be reused, limited in efficiency gains. - Minor Impact due to low flow.</li> <li>Vulnerable on flow in the river.</li> </ul>	
<b>Economic</b>	<ul style="list-style-type: none"> <li>Full utilization of existing resources and land area.</li> <li>Less equipment &amp; tankage costs and Less facilities cost required.</li> <li>Additional O&amp;M costs expected to be scaled with the additional flow.</li> <li>Option to avoid operations bottleneck in future, ability to "Future proof" with additional upgrades.</li> </ul>	





# Alternative 4 - Replace with New WWTF at a Different Location

RATING CONSIDERATIONS		
<b>Social</b>	<ul style="list-style-type: none"> <li>• Increased truck traffic with increasing capacity</li> <li>• Truck traffic located nearer to main roads, further from residential areas.</li> <li>• Land Acquisition required.</li> <li>• Limited suitable locations within and outside of settlement Area</li> <li>• Longer construction period likely resulting in prolonged noise, dust/mud, air quality and traffic impacts that require mitigation.</li> <li>• New WWTP design will require mitigation measures (covers and odourous air treatment) to reduce potential impacts of odours on nearby residents. No anticipated change in odour impacts during operation</li> </ul>	
<b>Technical</b>	<ul style="list-style-type: none"> <li>• New WWTF Processes; Potential increase in operational intensity.</li> <li>• Increased treatment capacity; New facility with lifecycle "reset".</li> <li>• Requires reconfiguration of Raw Sewage Pumping station and Outfall or potential new outfall</li> <li>• Construction of a new WWTF is less complex than retrofit of existing facility and can be completed offline with tie-in during commissioning.</li> <li>• Construction period longer; additional approvals may be required</li> </ul>	
<b>Natural Environment</b>	<ul style="list-style-type: none"> <li>• Proposed location is near main road away from prominent shoreline.</li> <li>• Impacts on the aquatic environment during operation are anticipated to be similar to existing plant operation.</li> <li>• Increased truck traffic with plant load. Potential for more efficient technologies to replace the existing site.</li> <li>• Vulnerable to changes in flow in the Trent River.</li> </ul>	
<b>Economic</b>	<ul style="list-style-type: none"> <li>• Costs for land Acquisition (since potential sites are external lands)</li> <li>• New Tankage and Equipment costs &amp; new facilities cost for the new WWTF</li> <li>• Decommissioning costs for the existing WWTF, Decommissioning of existing WWTF has minimal reuse of existing structures and equipment.</li> <li>• Forcemain and outfall reconfiguration costs for the new WWTF</li> <li>• Additional O&amp;M costs expected to be scaled with the additional flow</li> <li>• New technologies may reduce unit O&amp;M costs (electricity, etc.)</li> </ul>	



Potential External Lands (in purple) identified as possible locations for a New WWTF  
(Existing plot boundary in green)



# Summary of Evaluation Results

Evaluation Criteria	Alternative 3 - Expand the Existing WWTP	Alternative 4- Replace with New WWTF at a Different Location
Social		
Technical		
Natural Environment		
Economic		
Ranking	1	2

The preliminary preferred alternative is:

## **Alternative 3 – Expand the Existing Hastings WWTF**

The key advantages of this alternative as compared to the other short-listed alternative include:

- ❖ Maximizes use of existing assets and infrastructure, including no change to sewer collection network
- ❖ Minimal impacts on the surrounding natural environment
- ❖ Minimal noise, odour, air quality, and traffic impacts
- ❖ Lower anticipated greenhouse gas generation; and
- ❖ Lower estimated capital and O&M cost

# What are the next steps?

## After this Public Information Centre, the project team will:

- Review and consider input received during this PIC to confirm the preliminary preferred alternative presented tonight for the Hastings WWTF
- Develop and pre-screen a long-list of technologies and/or design concepts for the expansion of the Hastings WWTF.
- Evaluate short-listed technologies and/or design concepts to identify a preliminary preferred alternative for the expansion of the Hastings WWTF.
- Present preliminary preferred alternative for the expansion of the Hastings WWTF at PIC #2 to receive comments from the public, indigenous communities, and review agencies.

### Summer 2025

Compile comments from PIC #1 and confirm recommendation to expand Hastings WWTF

### Fall-Winter- 2025

Identify preliminary preferred technology and/or design concept for Hastings WWTF expansion

### Target Q1 2026

PIC #2

## Next Steps & Comments

# Questions or comments?

Should you have any questions about this presentation or the project, please fill out a comment sheet tonight or contact:



Tanya Redden, C.Tech, rcsi

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Engineering for **people**

Bradley Young, Ph.D., P.Eng.

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**Please provide your comments and questions  
by September 26<sup>th</sup>, 2025.**