

Oxley Drive / Sandy's Street Sanitary Pump Station #11 Relocation

Environmental Assessment Study Addendum Public Information Centre (PIC)

Start Date: July 16, 2026

Comment Period for PIC Ends: July 27, 2026



Welcome to the SPS #11 PIC

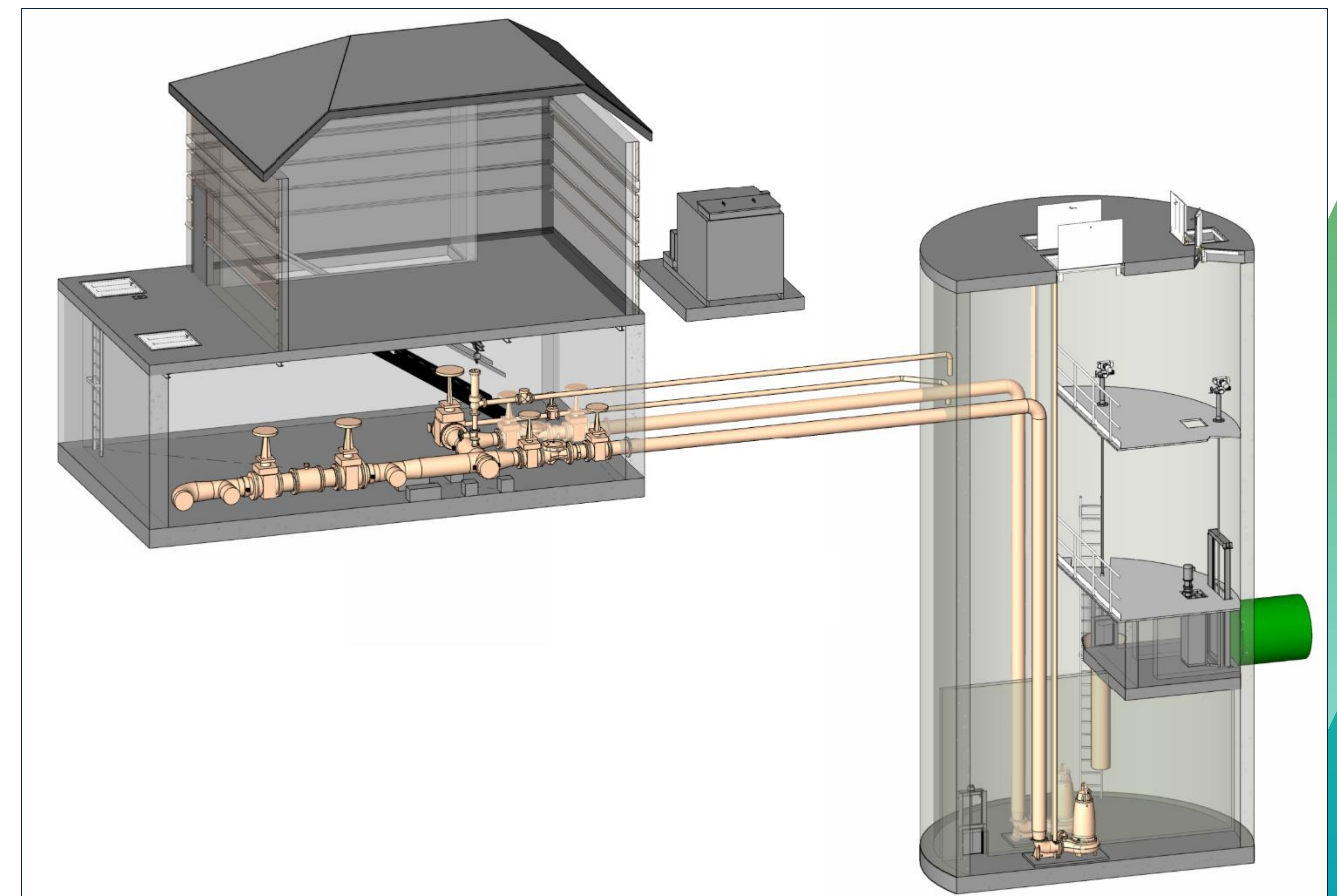


This is the virtual Public Information Centre (PIC) for the Municipality of Chatham-Kent Oxley Drive / Sandy's Street Sanitary Pump Station (SPS) #11 Municipal Class Environmental Assessment (MCEA) Addendum.

The objectives of this Public Information Centre are to:

- Re-introduce the project and outline the MCEA Addendum process;
- Provide information on why an addendum is needed and the changes to the study area in the last 10 years;
- Share the updated alternative solutions and their evaluation; and
- Seek knowledge and awareness on the conditions in the study area and gather your feedback.

Example of a Sewage Pumping Station



Study Overview

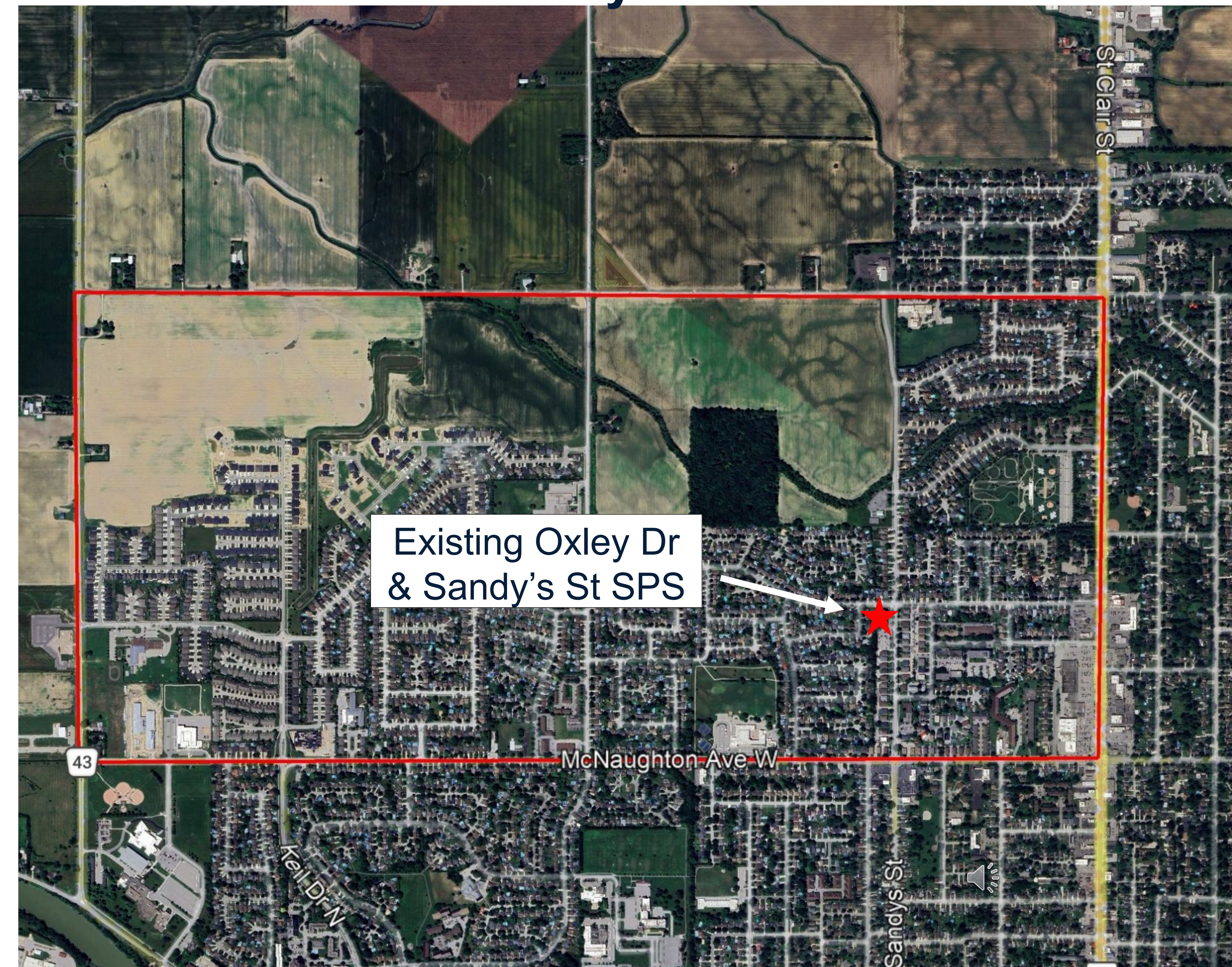
The Municipality of Chatham-Kent is undertaking a “Schedule B” MCEA Addendum to study a relocation of SPS #11 at Oxley Drive & Sandys’ Street in Chatham. This study will consider the current population needs and potential development growth of Northwest Chatham.

The Study Area includes lands bounded by Gregory Drive West to the north, St Clair Street to the east, McNaughton Avenue West to the south, and Bear Line Road to the west. The Study Area will consider nearby potentially impacted natural, socio-economic, and cultural features and other relevant criteria.

This Schedule B MCEA Addendum will:

- Assess and confirm the need and justification for a relocation of SPS #11;
- Identify and evaluate alternative solutions and design concepts; and
- Develop a preliminary design and identify mitigation measures for future stages of design work.

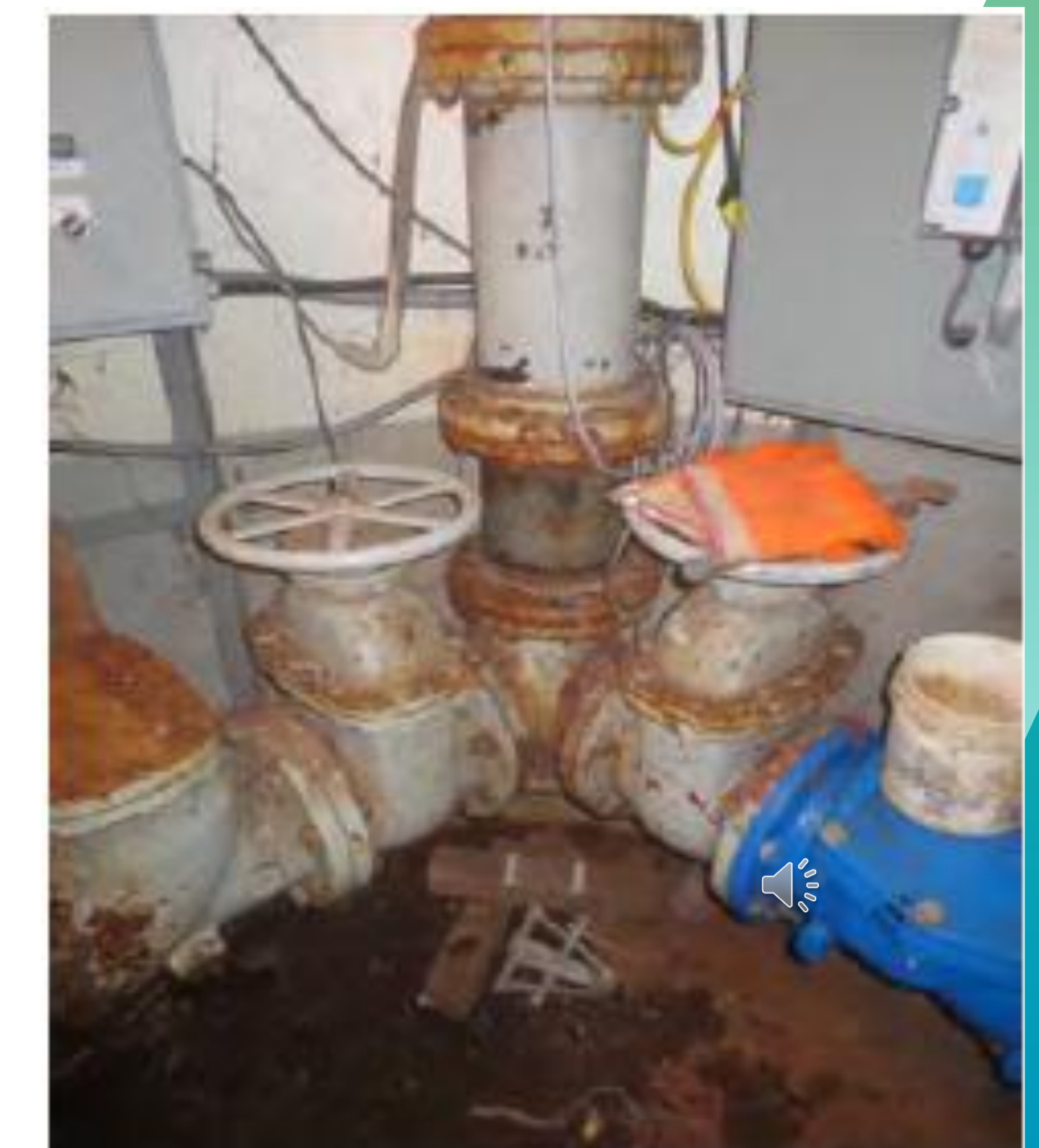
Study Area



Project Background

- The existing SPS #11 is located at the intersection of Oxley Drive and Sandy's Street in Chatham.
- Originally built as a temporary measure to accommodate the sanitary servicing needs of the area, SPS #11 is functioning at its full capacity.
- The Municipality is limited in its capacity in providing quality sanitary service that balances sustainable growth and development.

**The location
and current
conditions of
the existing
SPS #11**



Original Municipal Class Environmental Assessment (2016)



- The Chatham-Kent Water and Wastewater Master Plan (2012) recommended a new trunk sewer and pumping station in the northwest area of Chatham.
- Identifying the opportunity to assess the sanitary service requirements and in advance of future development in the area, an MCEA was completed in 2016 to assess the existing SPS #11.
- The 2016 EA provided sanitary servicing solutions to upgrade or replace SPS #11 and recommended the preferred alternative solution, Alternative 5C: two new sewage pumping stations (Northwest of Brown Drain Creek and East of a Keil Trail North extension), however the solution was not carried forward at the time.
- There continues to be a need for sanitary servicing in Northwest Chatham.
- To move forward with the SPS #11 relocation now, a Schedule B MCEA Addendum is required, which includes review of the main features, characteristics and existing conditions of the study area.

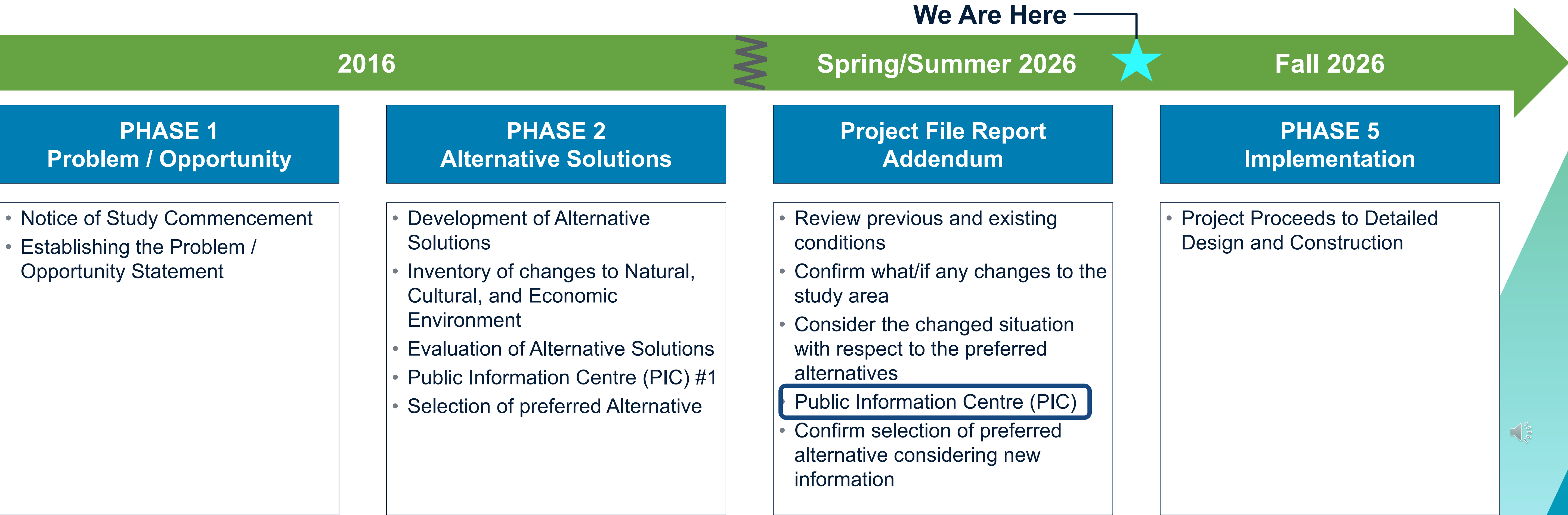
2016 MCEA Alternative Solution Locations



Municipal Class Environmental Assessment Process - Addendum



- A MCEA is a mandatory and approved process under the *Ontario Environmental Assessment Act*. This study is following the requirements of a “Schedule B” MCEA which includes Phases 1, 2, and 5.
- MCEA planning and design process allows for the **re-evaluation** of the preferred solution.



Existing Conditions

Land Use Features

- Chatham-Kent has developed since the 2016 EA, growing and expanding its urban area.
- Relocation of the existing SPS #11 to a new location is required to continue servicing the existing northwest catchment area and additional planned future growth in Northwest Chatham.
- The service catchment areas for the relocated SPS #11 is the existing catchment area and the proposed development areas for the 2051 population growth in northwest Chatham.

Existing and Future Catchment Area

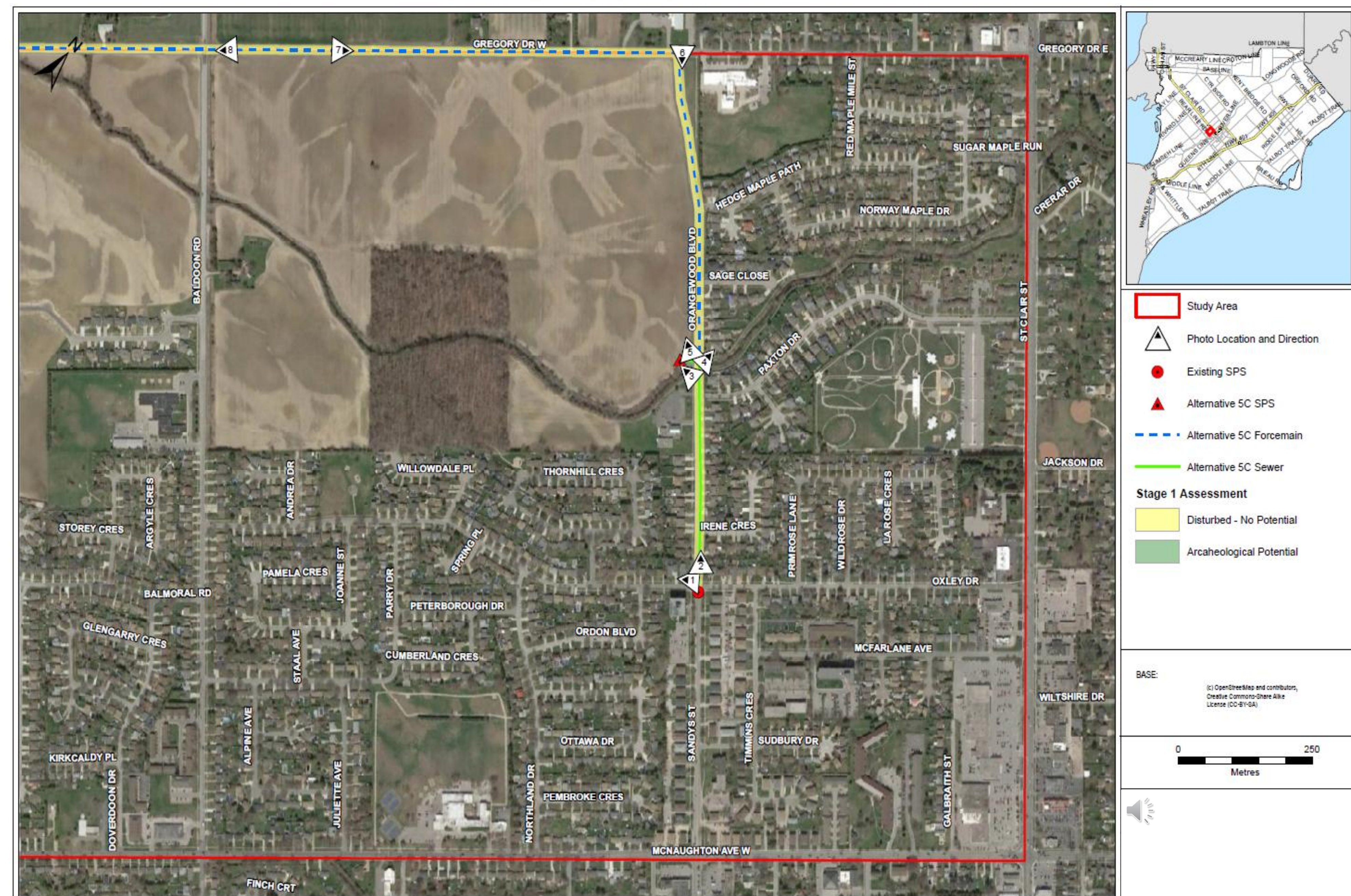


Existing Conditions

Archaeological Features

- The 2016 MCEA performed a Stage 1 Archaeological Assessment, which includes a background study and property inspections.
- The 2016 Stage 1 Assessment determined that the Study Area has been extensively disturbed by past construction and development.
- As a result, these areas are not anticipated to have archaeological potential.
- **A Stage 1 & Stage 2 re-investigation of the Study Area is underway and the findings will be documented in the MCEA addendum.**

Archaeological Stage 1 Assessment (2016)





Share Your Feedback!

Do the existing conditions feel well represented?
Are there any other aspects or constraints (environmental, cultural or other) the project team should be aware of?

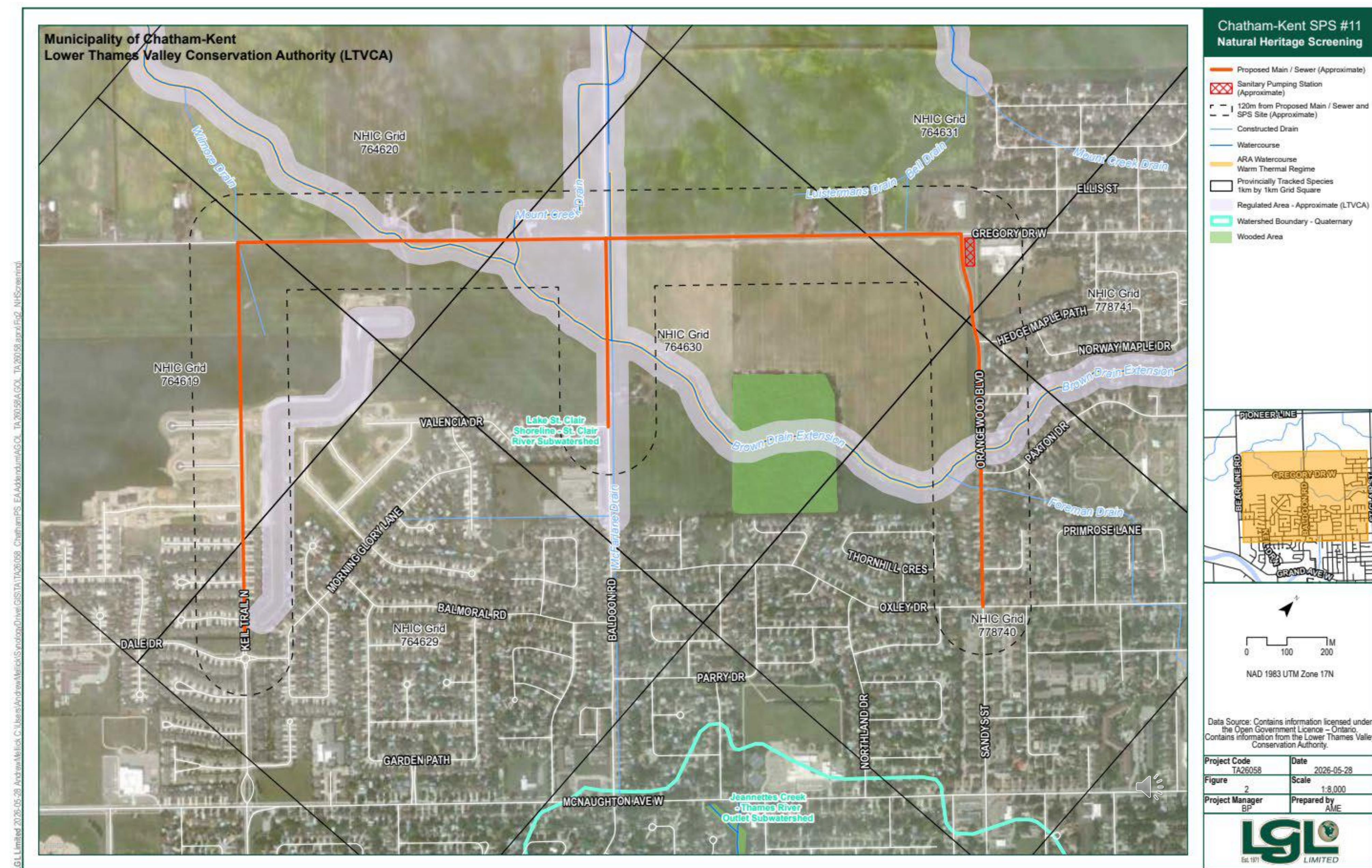
Existing Conditions



Natural Heritage Features

- The vegetation is primarily comprised of disturbed communities with varying degrees of anthropogenic impact.
- There are four water course crossings, Class F or unrated municipal drains classified by the DFO, within the Study Area.
- The ecological features and functions are limited, and the area is highly altered.

Natural Heritage Features Map



Alternative Solution Criteria



To evaluate the alternative solutions, several criteria will be used to determine the preferred alternative solution:

- **Socio-Cultural Environment**
 - Impact on current land use
 - Noise and vibration during and after construction
 - Dust and mud during construction
 - Odour during and after construction
 - Traffic/pedestrian safety during construction
 - Impacts to businesses during and after construction
 - Impact to property value and aesthetics
 - Potential impacts to structures having archaeological, historical, architectural or cultural/heritage significance
- **Natural Environment**
 - Change or removal of existing vegetation, trees, protected features (ANSI, ESA, PSW)
 - Surface and ground water quantity and quality impacts
 - Impacts to wildlife and natural habitats
- **Technical and Operational Considerations**
 - Ease of construction of Alternative
 - Construction duration
 - Impacts on servicing development lands
 - Conflict with existing utilities and services
 - Ease of operation and maintenance
 - Access to the site and structures
- **Economic Considerations**
 - 25-year Life Cycle Cost

Alternative Solution Site Considerations

SPS Site Location Considerations

- When selecting a location for an SPS, the following factors must be taken into consideration based on the challenges with the 2016 EA:
 - **Physical Features:** The site geotechnical, hydrogeological and flood protection features;
 - **Access:** Vehicle access from a municipal street, availability of utilities, backup power, snow storage/removal, and all access roads and parking areas are paved with asphalt; and
 - **Odour and noise control.**
- To provide the necessary service for the existing and planned development in Northwest Chatham, the preferred alternative is **recommended to be located on Municipal land** so no land acquisition is necessary, and the relocation can move forward to detailed design and construction.

Mount Creek Drain Crossing at Gregory Drive West




Share Your Feedback!

Are there any other Sanitary Pumping Station and wastewater servicing alternatives we should be considering?

Alternative Solution Evaluation Summary

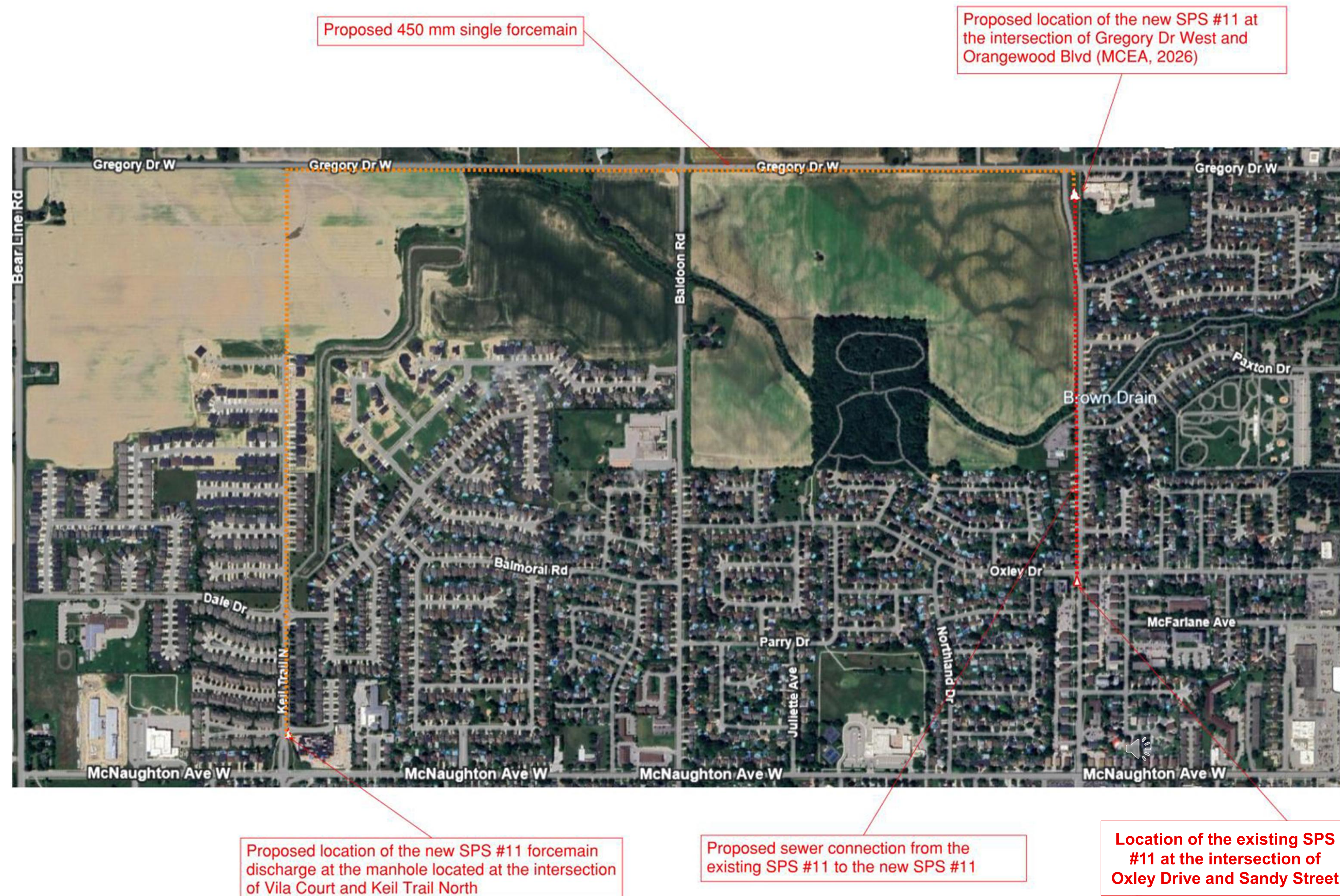


Alternatives Considered	Screening Criteria				Alternative Screening Observations and Comments		Recommendation
	Socio-Cultural Environment	Natural Environment	Technical Consideration	Economic Consideration	Advantages	Disadvantages	
1 – Do Nothing	✓	✓	✗	✓	No immediate capital investment	- Does not address SPS #11 operational and maintenance issues - Does not meet future flow demands, limits future catchment growth	Not recommended for further consideration
2 – Preferred Solution Identified in 2016 EA Study	✓	✓	✗	✓	- Resolves SPS #11 operational and maintenance issues - Supports existing and future servicing	- Capital investment required for new SPS and infrastructure - Site acquisition required, relocation not feasible	Not recommended for further consideration
3 – Build in Boulevard	✗	✓	✗	✓	- Resolves SPS #11 operational and maintenance issues - Supports existing and future servicing	- Capital investment required for new SPS and infrastructure - Sites cannot support required flows without major upgrades - May require easement acquisition (private property or ROW impacts)	Not recommended for further consideration
4 – Build in Future Drainage Area	✓	✓	✓	✗	- Resolves SPS #11 operational and maintenance issues - Supports existing and future servicing	- Capital investment required for new SPS and infrastructure - Costs and property needs exceed municipal capacity	Not recommended for further consideration
5 – Build at Orangewood Boulevard and Gregory Drive West	✓	✓	✓	✓	- Resolves SPS #11 operational and maintenance issues - Supports existing and future servicing - Property secured	- Capital investment required for new SPS and infrastructure - Location may make it subject to higher standards of mitigation for overflow runoff	To be carried forward for consideration.

Preferred Alternative Solution

Proposed SPS #11 Location and Sewer and Forcemain Routing

- The preferred solution identified in the MCEA Addendum is to relocate existing SPS #11 to Orangewood Boulevard and Gregory Drive West.
- The relocated SPS #11 will resolve the operation and maintenance issues and provides reliable sanitary servicing for current and future growth in the drainage area.
- The relocated SPS will provide a firm rated pumping capacity of 240 L/s to meet the existing and future sanitary servicing needs, and will discharge to the trunk sewer at Villa Court through a forcemain.
- The relocated SPS and the construction of the associated gravity sewer and forcemain will be located on municipally owned land and within the municipality's road allowance.



Preferred Alternative Solution Layout

Key Considerations During Detailed Design

School and Safety Measures

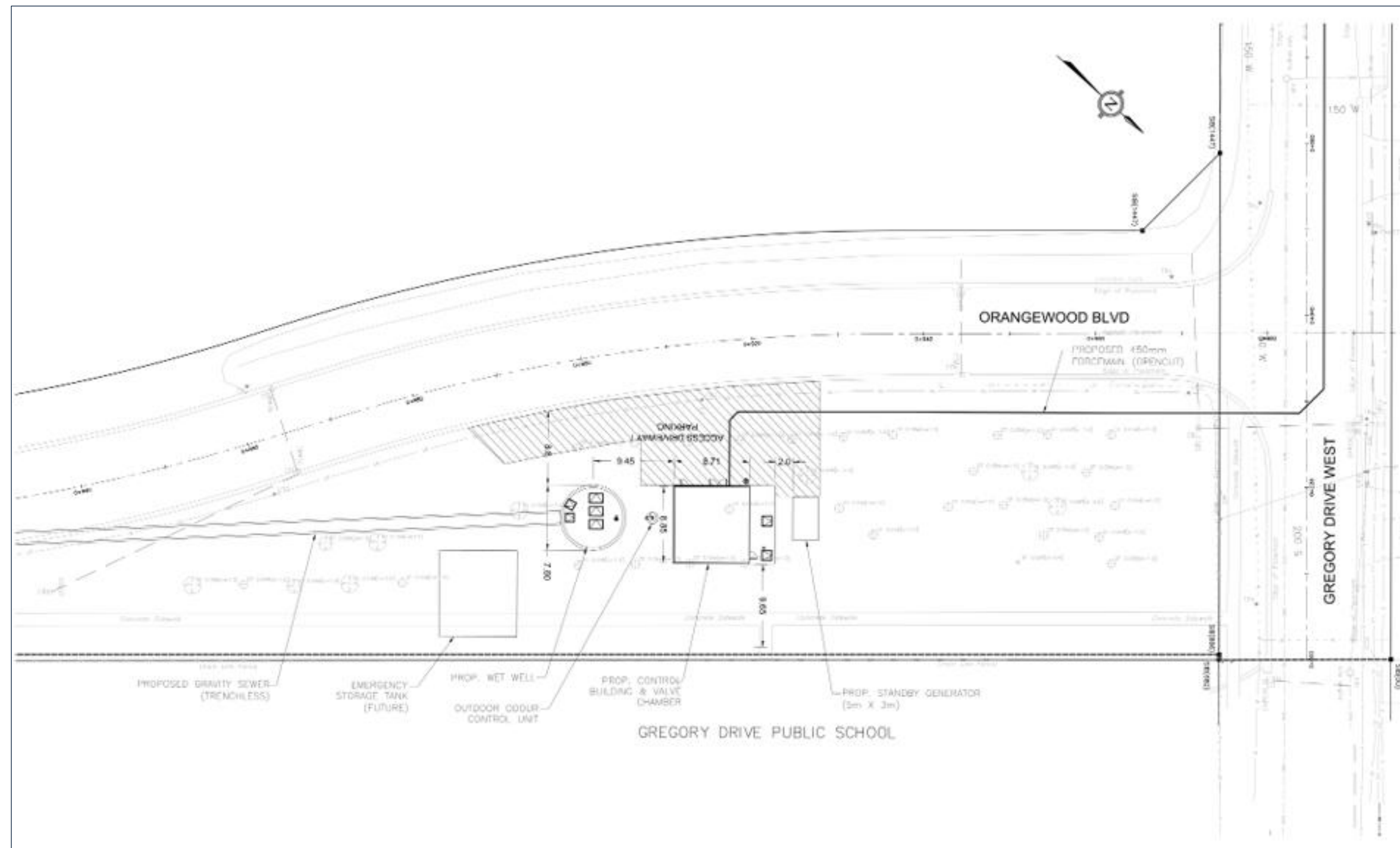
- Measures will be developed to minimize impacts to the adjacent school and maintain a safe, secure separation between school activities, construction areas, and the future pumping station site.

Pedestrian Connectivity

- Existing pedestrian access will be maintained throughout the project. Where required, temporary detours or walkway relocations will be provided to ensure safe and continuous access.

Traffic and Road Closures

- Installation of the forcemain may require temporary lane restrictions or partial road closures. Traffic management strategies will be developed to minimize disruptions and maintain safe access for residents, businesses, and emergency services.



The design and layout of SPS #11 will be confirmed in Phase 5: Detailed Design, with one of the possible conceptual layouts shown above



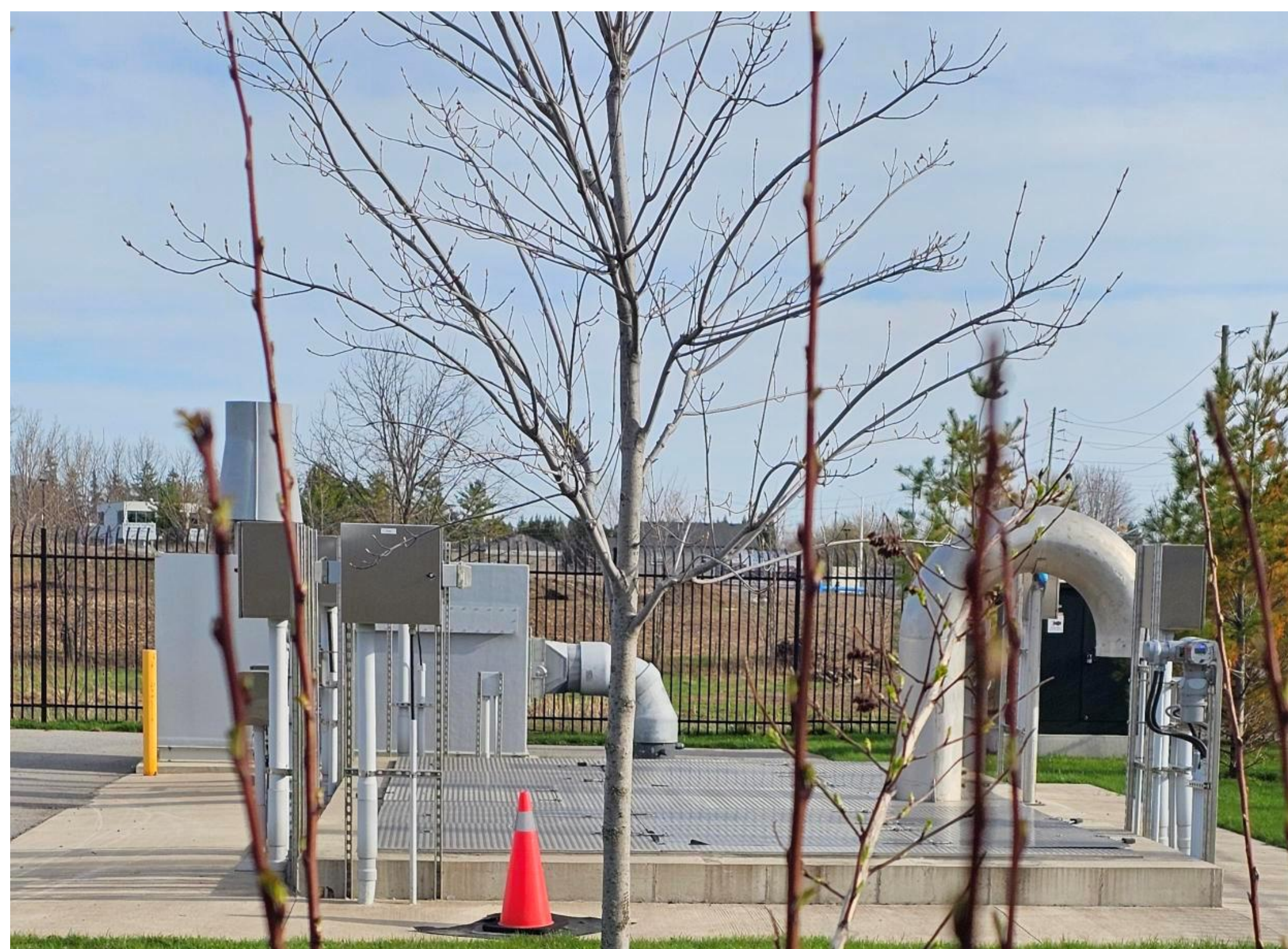
Share Your Feedback!

What type of architectural treatments and building aesthetics are you interested in seeing? Is there a design style you would like the Municipality to consider?

Preferred Concept Design



- The MCEA Addendum will explore the different design elements for the relocated SPS #11, with the key preliminary features consisting of an Electrical Control Room on the ground floor and Valve/Pipe Chamber in the basement, with the Odour Control Room and standby generator installed outdoors.
- Examples of sanitary pumping station facilities and their aesthetic features are shown below.



During detailed design, the SPS layout and venting system will be developed to control odours and minimize effects on the surrounding area.

These images show typical SPS facilities throughout Southern Ontario



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Design and specific construction details will be finalized during the Detailed Design



Share Your Feedback!

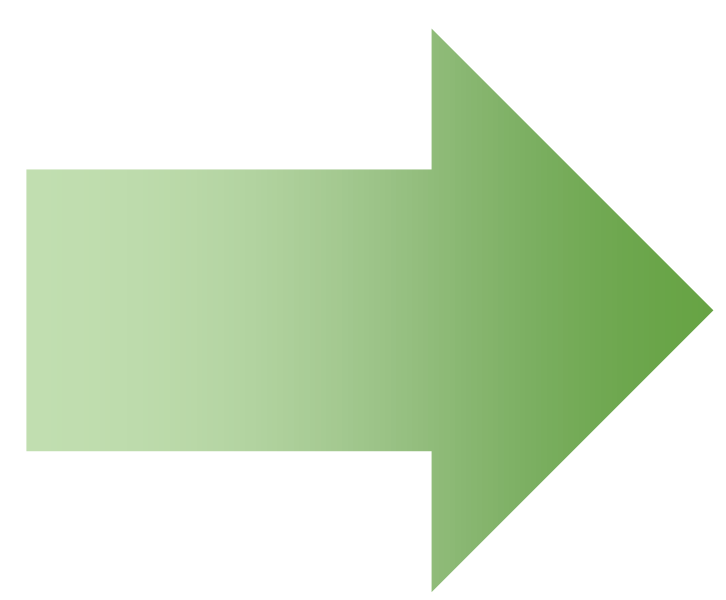
Are there any other mitigation measures during construction the project team you would like the project team to consider?



Anticipated Impacts and Proposed Mitigation Measures

Impacts

**Community / Social / Environmental
Short Term Construction Impacts**



Mitigation Measures

- The Municipality of Chatham-Kent prioritizes health and safety. All SPS, forcemain, and gravity sewer construction will adhere to strict safety guidelines.
- An Erosion and Sediment Control Plan will be developed and implemented to mitigate impacts to the surrounding vegetation communities and properties adjacent to the construction.
- Measures will be undertaken during construction to minimize noise, emissions, and disturbances during construction of the SPS, forcemain, and gravity sewer by constructing noise barriers, following the proper maintenance of equipment, and minimize operation on site.
- A traffic control plan will be prepared to mitigate potential traffic disturbance to the nearby homes, businesses, and institutions during construction.
- Trenchless Technology (tunneling) will be used for forcemain and gravity sewer installations across water crossings to reduce impacts to the surface water and aquatic habitats.

Anticipated Impacts and Proposed Mitigation Measures

Impacts

Operational and Maintenance Impacts

Mitigation Measures

- To minimize the long-term operational and maintenance impacts from the SPS, an Odour Control Unit will be included in the SPS design and construction.
- The Odour Control Units considered at this stage of the MCEA Addendum is a durable, low-profile system that captures and neutralizes sewer gas odours to improve air quality in sensitive and residential areas.

An Odor Control Unit is designed to reduce unpleasant sewer odours in both residential and commercial areas. Its built-in deodorizing system treats sewer gases before they are released, helping to improve air quality and reduce community concerns.



Odour Control Units can have different designs and aesthetics.

The type and design of Odour Control Unit will be confirmed in the MCEA Addendum and follow the Ontario MECP air quality requirements.

This image shows a typical Odour Control Unit used in a SPS.



Next Steps

Following this PIC, the Project Team will:

- Review and address public comments and feedback and consider in preferred solution;
- Publish the MCEA Addendum for a 30-day public review period; and
- Move forward to detailed design.

Please submit your questions and comments to one of the project team members listed below and subscribe to the Addendum Study Let's Talk Page for project updates.



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Please Provide Comments by July 27, 2026



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