

A network diagram consisting of interconnected nodes and lines, rendered in a light gray color against a dark gray background. The nodes are represented by small circles, and the lines are thin, connecting the nodes in a complex, web-like structure. The diagram is positioned on the left side of the image, extending towards the center.

MOVING WATER FORWARD

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara Region

East Side Sewage Pumping Station Forcemain Replacement Environmental Assessment

Public Information Centre

September 8th, 2021

Welcome to: Virtual Public Information Centre

The objectives for today's Public Information Centre are:



Present the study area and objectives



Present the problem and opportunity statement along with the short list of alternatives



Provide a clear and transparent process for the evaluation of alternatives



Receive feedback on the evaluation process and recommended alternative

Niagara Region Eastside Sewage Pumping Station Forcemain Class Environmental Assessment

Thank you for taking the time to fill out this comment form. Please place it or email it to the address below. **Your input is important.** Comments will be made available to the public with the exception of personal information.

1. Do you think any criteria or important indicators were missed? If so, please list them below.

2. What do you think about the evaluating criteria? Do you think any criteria are more or less important than the others?

| | More Important than the other categories | Same importance as the other categories | Less important than the other categories |
|-----------------------------|--|---|--|
| Environmental Impacts | | | |
| Social and Cultural Impacts | | | |
| Constructability Impacts | | | |
| Financial Viability | | | |
| Operational Benefits | | | |

Please explain your rationale:

3. Do you agree with the identified advantages and disadvantages for the short-listed alternatives?
 Yes
 No

If no, please indicate below:

Remember to fill out a comment form!

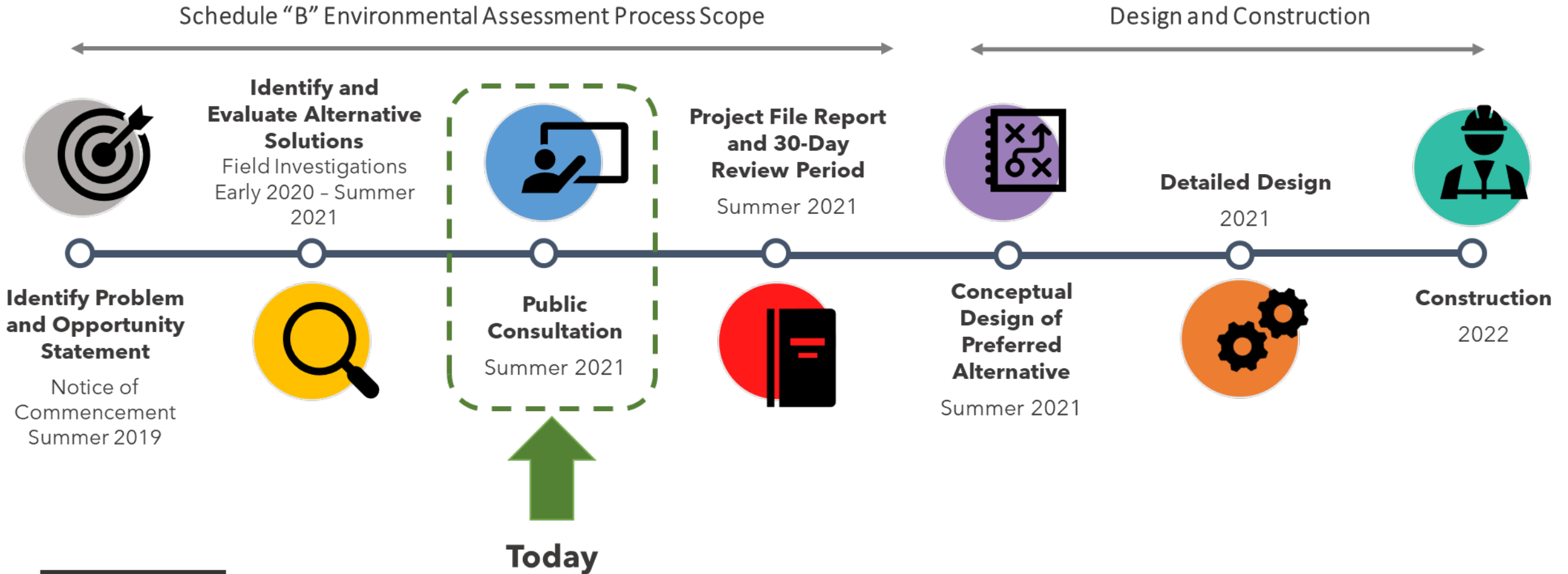
Submitting Questions & Comments
[Eastside Sewage Pumping Station Forcemain Replacement - Niagara Region, Ontario](#)
Deadline: September 22nd, 2021



CONNECTING MORE PEOPLE TO MORE POSSIBILITIES



Class "B" Environmental Assessment Process



Study Purpose and Objectives

“ Problem Opportunity/Statement

“To provide sufficient capacity to accommodate the future flows generated by growth within the City of Port Colborne, as identified in the Region’s 2016 Water and Wastewater Master Servicing Plan; and update aging infrastructure to provide long-term sanitary servicing for the community. In addition, providing the opportunity for a joint crossing of the canal with future planned infrastructure which includes the Regional watermain and East Side Employment Lands forcemain”

”

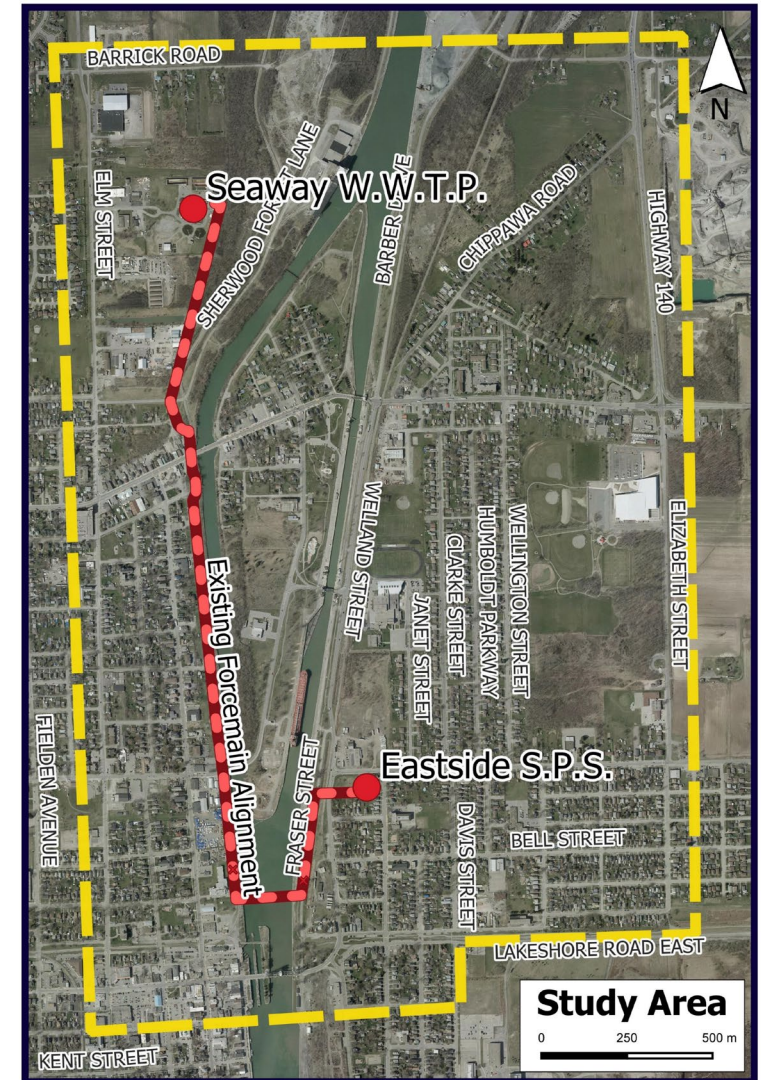
Our mandate will be to ensure the following goals are achieved:

1. Satisfy Schedule B Class EA process
2. Provide infrastructure capacity and flexibility to meet future capacity demands identified in the Region’s Master Servicing Plan (MSP)
3. Decrease the potential for future service disruptions
4. Maximize possible joint crossing for services crossing the Welland Canal
5. Minimize total lifecycle costs of the forcemain
6. Minimize environmental impacts including natural and socio-economic

Study Area and Background Details

East Side Pumping Station Background Details:

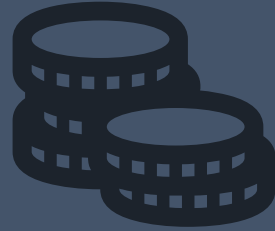
- The sewage pumping station is located at 53 Killaly Street East in the City of Port Colborne.
- The existing forcemain extends west of the station and crosses the canal north of Clarence Street and continues north along the canal to the Seaway Wastewater Treatment Plant.
- Both the forcemain and the existing station infrastructure have aged as they were constructed in 1980.
- The 2016 Master Servicing Plan identified the need for a new watermain to improve the reliability and security of the water supply system to the East Side of Port Colborne.
- There is a potential to coordinate additional services at this crossing including:
 - Need for a new Regional watermain, identified in the 2016 Master Servicing Plan and,
 - Forcemain to service the proposed East Side Service Lands Sewage Pumping Station.



Detailed Evaluation Criteria

FINANCIAL

- Costs associated with the construction, operation and maintenance of the solution
- Financial Risk



SOCIAL /CULTURAL

- Impacts to the community, operations cultural heritage sites and archeological significant sites
- Existing Infrastructure
- Noise, Vibration, Odour and Dust Impacts



ENVIRONMENTAL

- Effects on surrounding habitats including air, water features, soil/land and geology/hydrogeology
- Effects on species at risk and sensitive features
- Climate Change
- Environmental Risk



Detailed Evaluation Criteria

TECHNICAL CONSTRUCTABILITY

- Existing / Planned Infrastructure and Utilities
- Crossings
- Accessibility
- Constructability Risk



TECHNICAL FLEXIBILITY

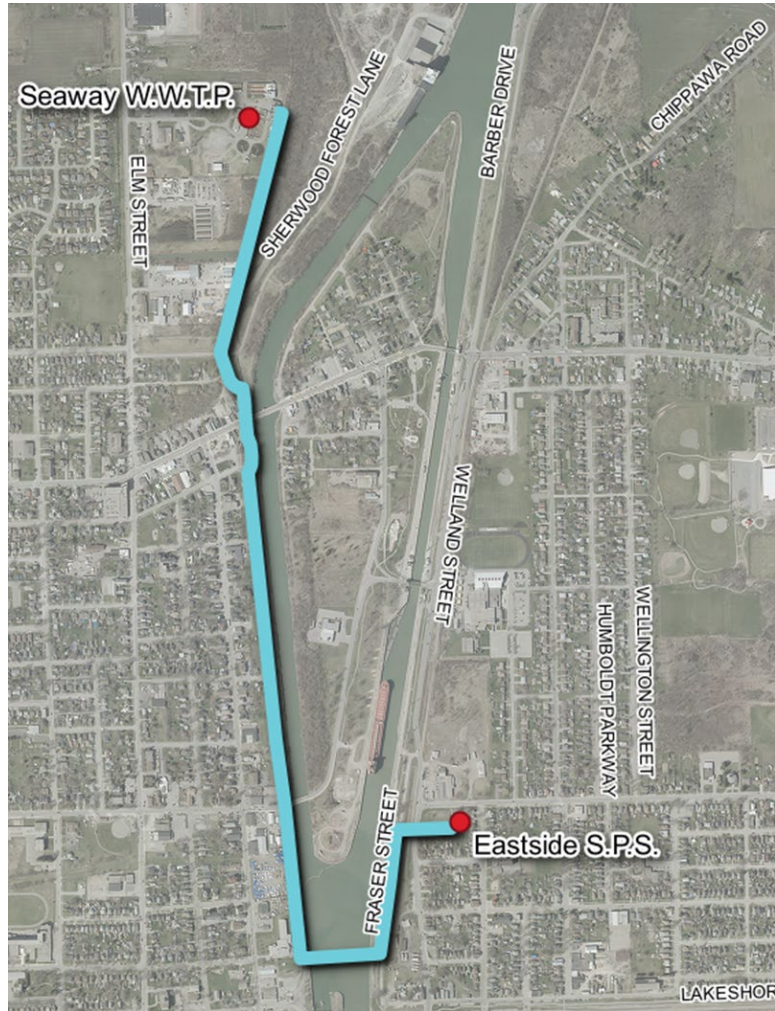
- Compatibility with Existing and Future Infrastructure
- Capacity for Future Growth
- System Security
- Operation & Maintenance

LEGAL/ JURISDICTIONAL

- Property Acquisitions
- Compliance with Applicable Planning Policies



Alternative 1 – Do Nothing



FINANCIAL

- ✓ Minimal capital costs
- ✗ High operation and maintenance costs
- ✗ High financial risk



ENVIRONMENTAL

- ✗ Potential for contamination due to aging infrastructure



SOCIAL AND CULTURAL

- ✓ Minimal social and cultural impacts as the same route would be used



TECHNICAL CONSTRUCTABILITY

- ✓ No construction = no construction impacts



TECHNICAL FLEXIBILITY

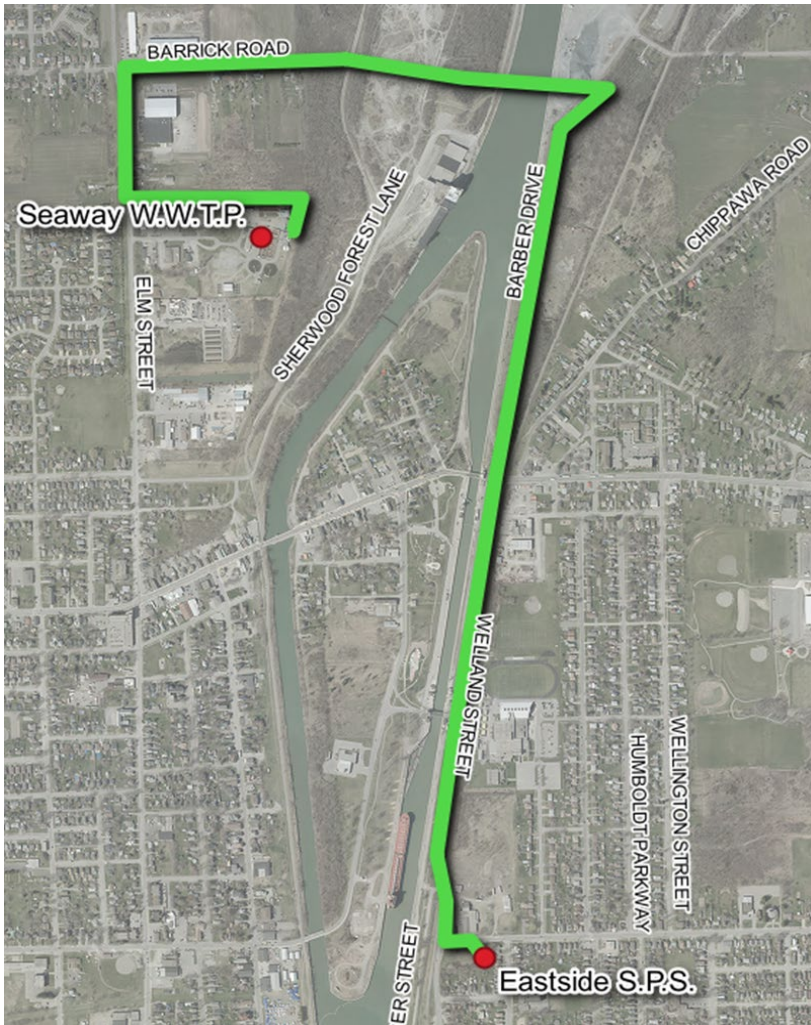
- ✗ Does not accommodate the need for potential additional utility crossings
- ✗ Does not accommodate future growth



LEGAL AND JURISDICTIONAL

- ✗ Does not align with existing Regional strategic and planning objectives

Alternative 2 – Barrick Road Crossing – Elm Street



FINANCIAL

× Most expensive alternative



ENVIRONMENTAL

✓ Minimal environmental impacts



SOCIAL AND CULTURAL

× Indirect impacts to surrounding properties as a result of noise and vibration during construction
× Impacts existing infrastructure (Right-of-Way)



TECHNICAL CONSTRUCTABILITY

× Follows developed Right of Way



TECHNICAL FLEXIBILITY

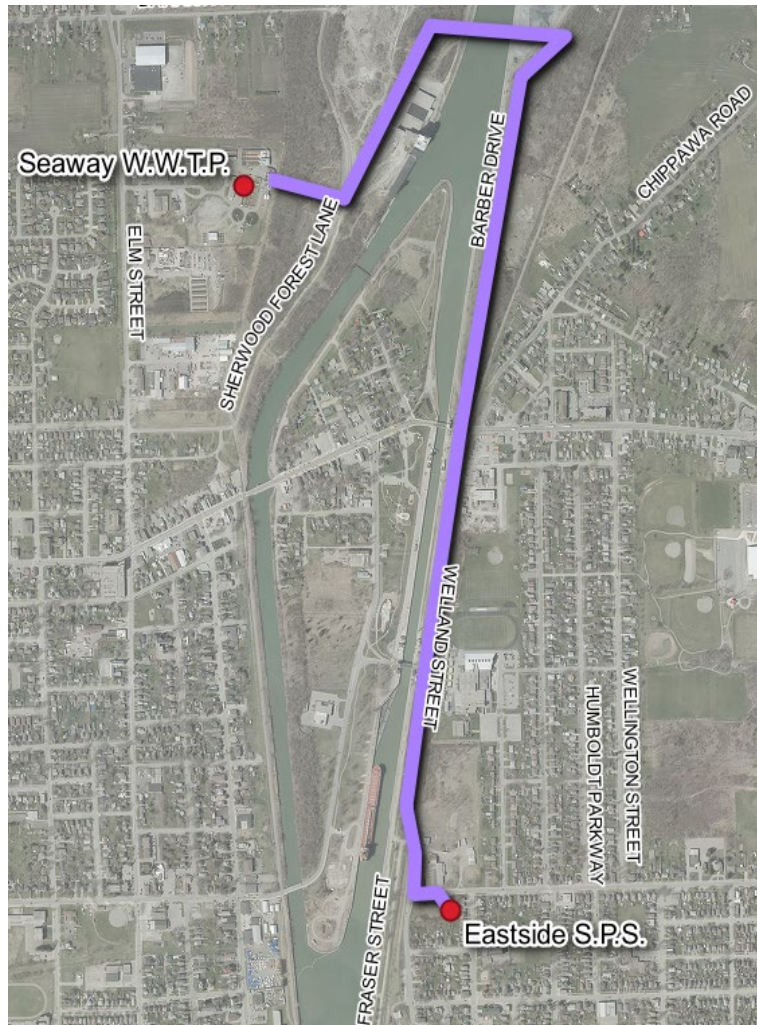
× Longest forcemain requirement (~4.1 km)



LEGAL AND JURISDICTIONAL

✓ Aligns with the Regional's strategic and planning initiatives

Alternative 3 – Barrick Road Crossing – Seaway



FINANCIAL

✓ Least expensive alternative



ENVIRONMENTAL

✓ Minimal environmental impacts



SOCIAL AND CULTURAL

✓ Surrounding disturbances reduced as alignment going through Seaway lands
× Indirect impact to surrounding properties due to construction noise and vibrations



TECHNICAL CONSTRUCTABILITY

✓ Utilizes undeveloped Seaway owned lands



TECHNICAL FLEXIBILITY

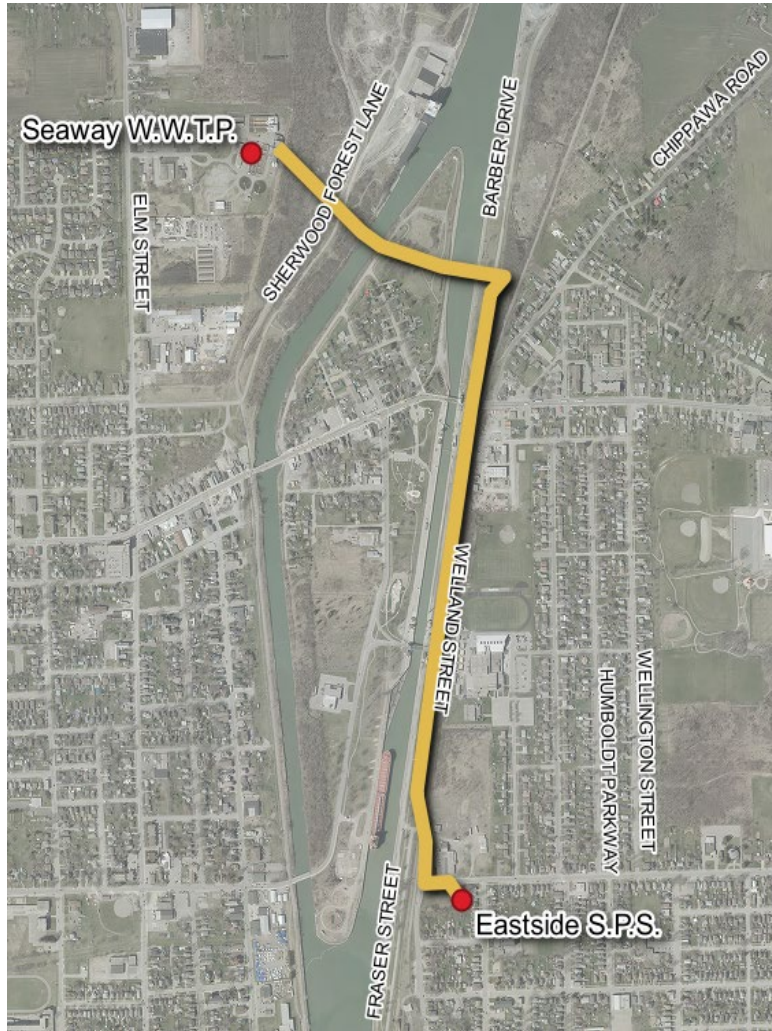
✓ Compatible with recent upgrades to the sewage pumping station
✓ Shorter forcemain required (~2.5 km)



LEGAL AND JURISDICTIONAL

✓ Aligns with the Regional's strategic and planning initiatives

Alternative 4 – North Island Crossing



FINANCIAL

✓ Less expensive option



ENVIRONMENTAL

✗ Required tree removal within City land to facilitate laydown area for tunneling on the East side of canal



SOCIAL AND CULTURAL

✓ Surrounding disturbances reduced as alignment going through Seaway lands
 ✗ Indirect impact to surrounding properties as a result of noise /vibration during construction
 ✗ Disruption of existing parks and trails



TECHNICAL CONSTRUCTABILITY

✓ Compatible with recent upgrades



TECHNICAL FLEXIBILITY

✓ Compatible with recent upgrades to the sewage pumping station
 ✓ Shortest forcemain required (~1.6 km)



LEGAL AND JURISDICTIONAL

✓ Aligns with the Regional's strategic and planning initiatives

Alternatives Evaluation

| Alternative | Technical Constructability | Technical Flexibility | Environment | Social / Cultural | Financial | Legal | Summary Score |
|--|----------------------------|-----------------------|-------------|-------------------|-----------|-------|---------------|
| 1 – Do Nothing/ Rehabilitation | | | | | | | |
| 2 – Barrick Road Crossing – Elm Street | | | | | | | |
| 3 – Barrick Road Crossing - Seaway | | | | | | | |
| 4 – North Island Crossing | | | | | | | |

Legend: Major Positive Minor Positive Neutral Minor Negative Major Negative

Preferred Alternative: Option 3

Barrick Road Crossing - Seaway

Following the evaluation of alternatives, **Option 3: Barrick Road Crossing – Seaway**, was deemed the most appropriate based on the evaluation criteria.

“ Problem and Opportunity Statement Objectives:

This alternative effectively addresses the components of the problem statement by:

1. Ensuring reliable drainage of sanitary flows from the East to the West side of Port Colborne and across the Welland Canal.
2. Allows for an opportunity to accommodate future utility crossings, including planned infrastructure such as the new Regional watermain and sanitary forcemain servicing the East side Employment Lands.

”



Preferred Alternative: 3 – Barrick Road Crossing – Seaway



New forcemain will accommodate upgrades recently done and currently underway at the East Side SPS



Cost-effective alternative



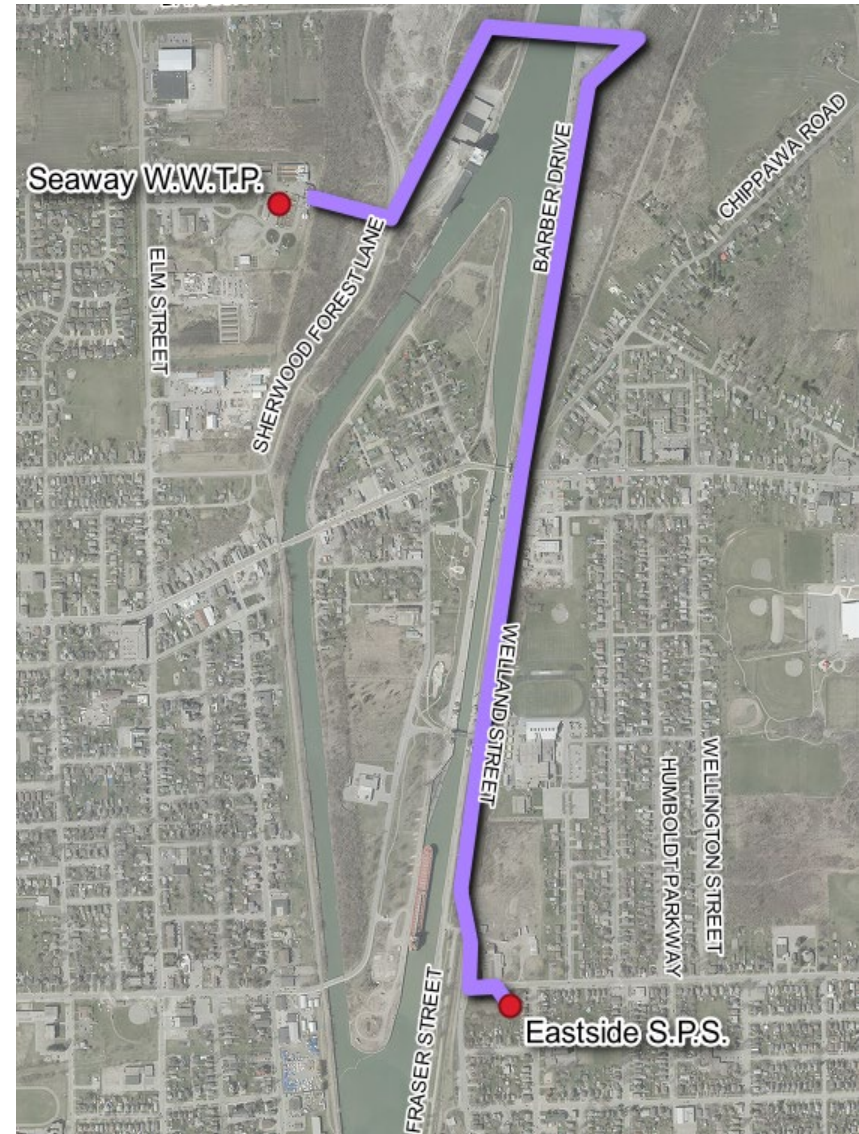
Shorter forcemain required



Accommodates future growth and servicing needs

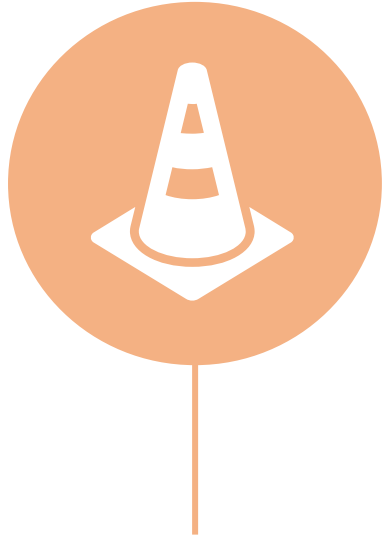


Reduces disruption to existing infrastructure by utilizing undeveloped Seaway owned lands



Mitigation Measures

The following measures will be taken before and during construction:



Monitor for vibrational impacts with specific attention to the built heritage resources



The project will be reviewed by Fisheries and Oceans Canada (DFO) to ensure the proposed design will not result in the disruption of fish habitat



Timing restrictions of vegetation removal for nesting birds and the development of a Tree Saving Plan

Next Steps



Incorporate any stakeholder feedback from the PIC



Finalize the recommended alternative



Prepare the Project File Report and begin the Conceptual design



30-Day Review Period



Following 30-day review, provided no comments, Region plans to proceed to Design

Thank you for your interest!

Questions? Concerns? Comments?

Fill out a comment form and submit to Michelle Miller or Amanda Beattie by September 22nd, 2021.

Your feedback is valuable and will inform the remainder of the decision-making process!

Niagara Region Eastside Sewage Pumping Station Force-main Replacement
Class Environmental Assessment – Public Consultation

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You can also contact the project team at:

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