Lakeshore West Water Pollution Control Plant

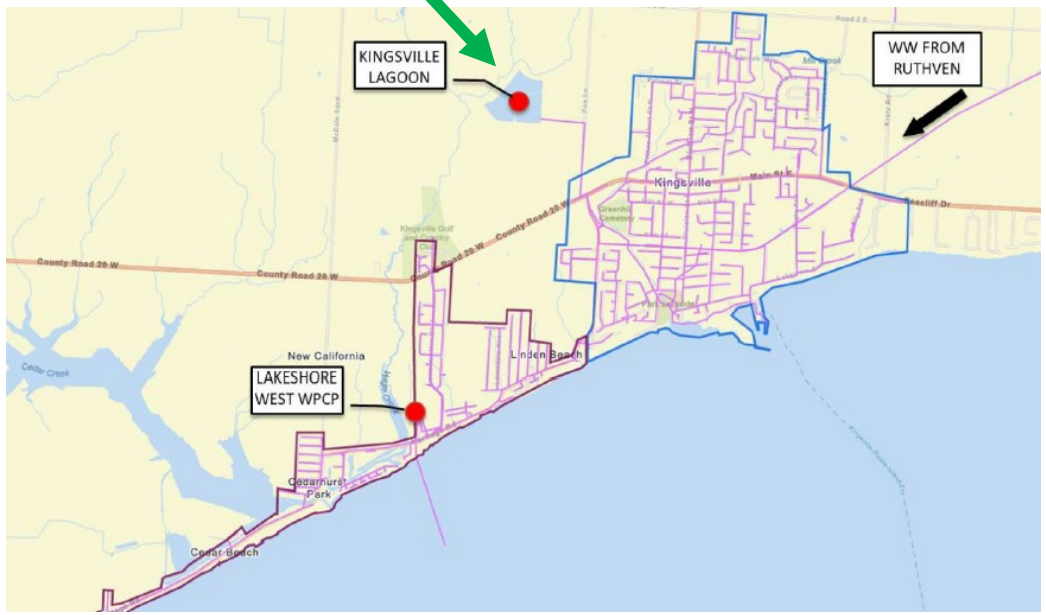
Existing System

- The Lakeshore West WPCP is a Wastewater Treatment Facility servicing the Primary Settlement Area of Kingsville.
- The Plant is located at the intersection of Conservation Blvd and County Road 50.
- The Plant has a rated capacity of 5,400 m3/day.

Environmental Assessment

Purpose of the Project

- To upgrade the Plant - currently operating at 90% of its rated capacity (5,400 m3/day).
- Flows currently exceeding peak capacity are diverted to lagoons – treated and discharged seasonally to Wigle Creek.
- Intent is to upgrade the Plant to accommodate growth to 2051 by increasing treatment capacity to 13,000 m3/day.



Environmental Assessment

Alternative Solutions

EA Process has identified 4 alternative solutions:

Option 1 – Improve efficiency of existing Plant processes.
Option 2 – Upgrade Plant and decommission the lagoons.
Option 3 – Upgrade Plant and use lagoons as storage.
Option 4 – Upgrade lagoons.
Option 3 & 4 brought forward to MECP for discussion on June 12, 2025.

Alternative Solution #3

Upgrade Plant & Upgrade Lagoons to an Equalization Tank

Proposed Solution:

- Upgrades and expansion to the Plant.
- Connect lagoons to the Plant by a new forcemain.
- Lagoons would act as a large storage tank.
- All effluent discharges to Lake Erie.

Benefits:

- No discharge to Wigle Creek, lower regulatory risk.
- Standard technology, quicker implementation.

Next steps to understand:

- Effluent requirements, coordinate with MECP.

Alternative Solution #4

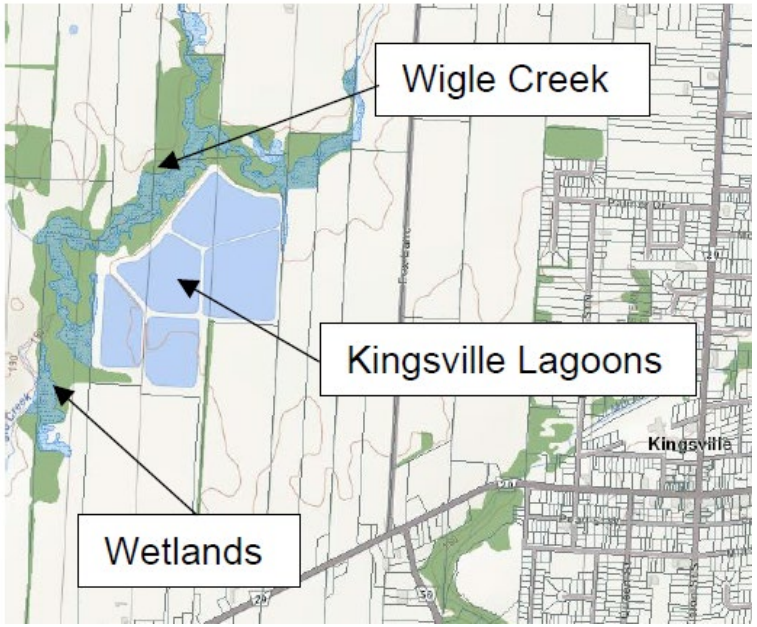
Upgrade Lagoons

Proposed Solution:

- Upgrade the lagoon treatment technology.
- Effluent from Plant continues to discharge to Lake Erie.
- Effluent from lagoons discharges to Wigle Creek.

Benefits:

- Reduces upgrades required at the Plant.
- Marginally lower capital costs.



Implementation concerns:

- Assimilative Capacity Study of Wigle Creek required by MECP, may take up to 2 years to complete.
- Capacity Study and MECP may conclude that this is not a viable option due to low base flows in Wigle Creek.

Timeline

Next Steps for this EA Project:

Task	Estimated Timeline
Select Final Preferred Alternative Solution **(Option 3 selected)**	July 2025 ✓
Public Information Center	Sept 2025
Phase 3 Report – Alternative Design Concepts Report to provide types of treatment options	Sept 2025
Phase 4 Report – Summary of all previous EA deliverables	Oct 2025
Address any report updates	Nov 2025
Completion of EA Project	**Dec 2025**

If the Town Proceeds with Upgrades:

A sample schedule from detailed design through to construction, contingent on Council and funding approvals.

Task	Estimated Timeline
Hire a Consulting Engineer	2026
Start Detailed Design	2026
ECA Application to MECP start at the 40-60% of detailed design phase	2026/2027
Finish Detailed Design	2027
Retain a Contractor	2028
Start Construction	2028