

LONG SAULT WASTEWATER TREATMENT PLANT ENVIRONMENTAL ASSESSMENT

Council Update



OCTOBER 14th, 2026



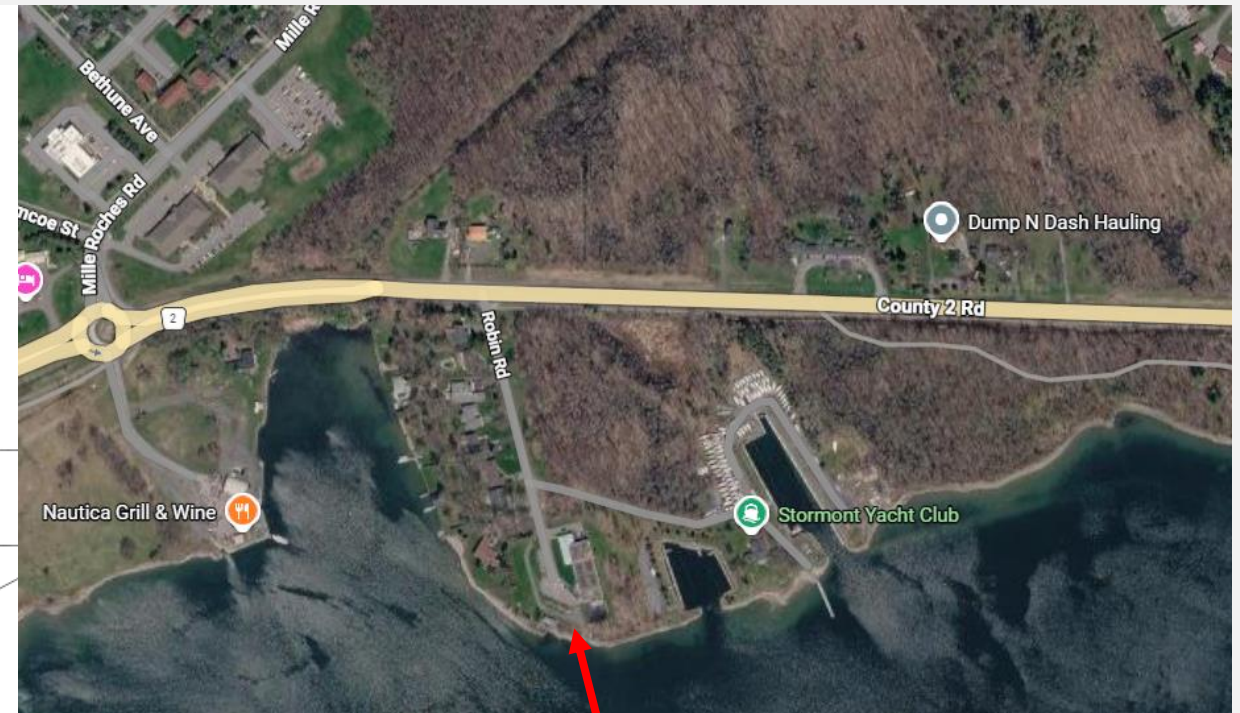
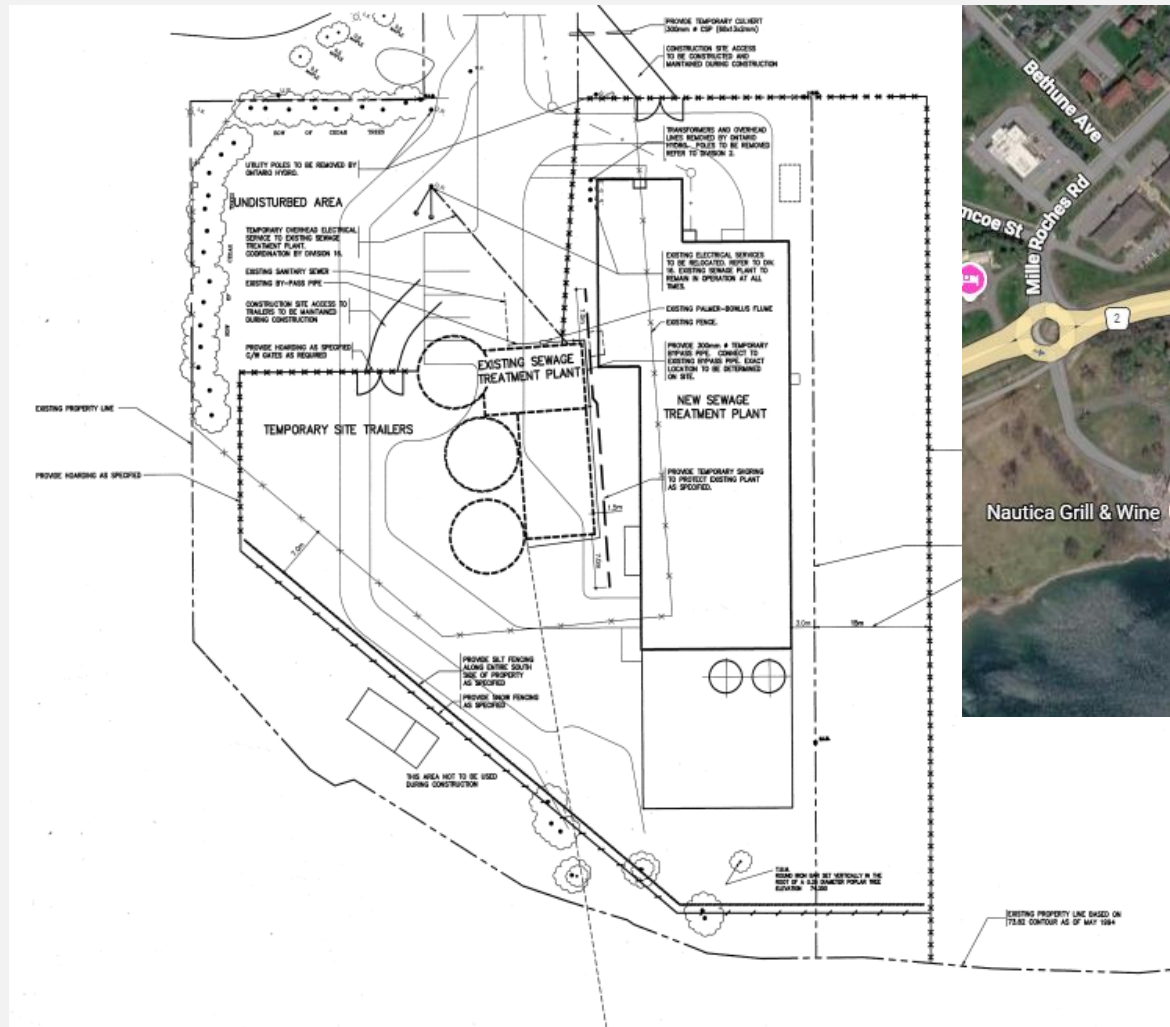
OUTLINE

Item	Description
2.1	Overview of Long Sault WWTP Needs Assessment
2.2	Phase 1 – Problem Definition
2.3	List of Alternative Solutions
2.4	Preliminary Recommendation
2.5	Next Steps

2.1 Overview of Long Sault WWTP

- Commissioned in 1997
- First municipal Sequencing Batch Reactor (SBR) and Autothermal Thermophilic Aerobic Digester (ATAD) in Ontario
- Some components are reaching the end of their useful service life
- Operating at 86% Capacity (Designed for 2,700 m³/d)
- Achieving effluent limits within Environmental Compliance Approval (ECA)
- Long Sault Master Servicing Plan Recommendation:
 - Within the next 20-year period: 8,900 m³/d to support residential growth, ICI development and the Long Sault Logistics Village (LSLV)

2.1 Overview of Long Sault WWTP



LONG SAULT WWTP

2.2 OPPORTUNITY STATEMENT

- OPPORTUNITY STATEMENT

The Village of Long Sault is growing, and the new growth requires access to wastewater collection and treatment services. The Township of South Stormont has initiated the environmental assessment process to identify the preferred solution to address the growing needs for wastewater treatment within the community.

2.3 List of Alternative Solutions

- List of Alternative Solutions:
 - Option 1 – Do Nothing
 - Option 2 – Expand Existing Plant
 - Option 3A – New WWTP North of Highway 2
 - Option 3B – New WWTP South of Highway 2
 - Option 4 – Pump to Ingleside and Expand Ingleside WWTP

2.3 – Option 1: Do Nothing

- Does not provide a solution that addresses the opportunity statement developed for the assignment
 - Could provide an interim solution until funding can assist the Township with the affordability of the project
- ✗ - Not recommended for further evaluation

2.3 – Option 2: Expand Existing WWTP

- The current WWTP utilizes two (2) SBR trains, each capable of treating 1,350 m³/d.
- To expand the existing WWTP, five (5) more SBR trains would be required.
- Given the size of the existing property, the option to expand the WWTP is not a feasible solution.
- ✗ - Not recommended for further evaluation

100m SETBACK FROM RESIDENTIAL PROPERTIES

TOWNSHIP & OPP BUILDING

COUNTY RD 36

MILLIE ROCHES RD

COUNTY RD 2

ROBIN RD

EVB
ENGINEERING

800 SECOND STREET WEST
CORNWALL, ONTARIO CANADA K6J 1H6
TEL: 613-665-2775 | FAX: 613-665-6650
WEBSITE: evbengineering.com

CLIENT

THE TOWNSHIP OF SOUTH STORMONT

PROJECT

LONG SAULT WWTP
ENVIRONMENTAL ASSESSMENT

TITLE

NEW WWTP
ALTERNATIVE SITE A

SCALE 1:2000	JOB NO. 26048
DESIGNED BY A.P.	DATE 26/07/20
DRAWN BY M.V.	DRAWING NO.

FIG. 1.1

2.3 – Option 3A: New WWTP North of Highway 2

Advantages:

- Property is already owned by the Township.
- Existing tree cover surrounding the extents of the proposed site to isolate the WWTP from the village.
- Potential option to discharge to the existing Forrester Branch Municipal Drain.

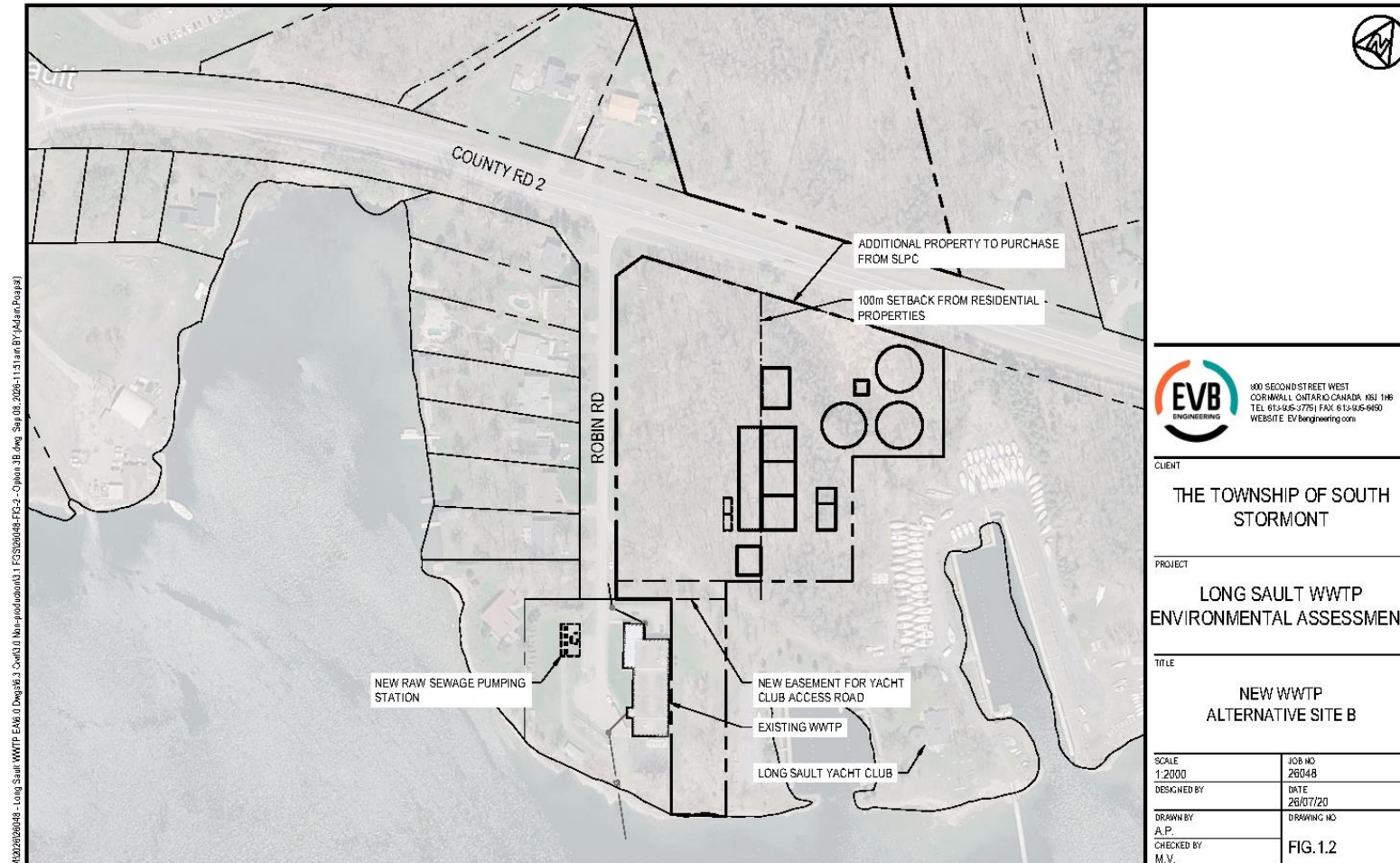
Disadvantages:

- Moves the WWTP closer to the Village of Long Sault.
- Increased potential for aesthetic impacts to adjacent existing homeowners.
- Impacts to forested area.
- Will required forcemain crossing under County Road 2.

Estimate Capital Cost: \$75,000,000 - \$100,000,000

✓ - Recommended for further evaluation

2.3 – Option 3B: New WWTP South of Highway 2



2.3 – Option 3B: New WWTP South of Highway 2

Advantages:

- Existing tree cover surrounding the extents of the proposed site to isolates the WWTP.
- Direct access to St. Lawrence River for new outfall.
- Site is adjacent to the existing WWTP property.

Disadvantages:

- Purchase of property from SLPC will be required.
- Impacts to forested area.
- Will require negotiation of land/access with Long Sault Yacht Club.

Estimate Capital Cost: \$75,000,000 - \$100,000,000

✓ - Recommended for further evaluation

2.3 – Option 4: Pump to Ingleside and Expand Ingleside WWTP

- Involves construction of a new Headworks building and Intermediate Pumping Station on the existing WWTP property and a new ~8km forcemain between Long Sault and Ingleside.
- Requires redesign and significant expansion to the Ingleside WWTP.

2.3 – Option 4: Pump to Ingleside and Expand Ingleside WWTP

Advantages:

- Township will only have one WWTP to operate.

Disadvantages:

- Requires significant coordination/agreements required to construct new forcemain along County Road 2.
- Added operational costs associated with long forcemains.
- Will impact some modifications currently being made to expand the Ingleside WWTP.

Estimate Capital Cost: \$100,000,000 - \$120,000,000

✗ - Not recommended for further evaluation

2.4 – Preliminary Recommendations

OPTION:

1. Carry forward Option 3A (North side of HWY 2) and Option 3B (South side of HWY 2) for further development and evaluation in Phase 3.

2.5 Next Steps

Next Steps for EA Process:

- September 10, 2026
- October 14, 2026
- October 21, 2026

Project Steering Committee Meeting
Council Meeting
Public Consultation Centre

QUESTIONS?

