



# **Annual Performance Report 2024**

**Napanee Wastewater Collection System  
CLI-ECA Number: 157-W601**

Town of Greater Napanee

Prepared: January 2025

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## 1. Introduction

Wastewater treatment and collection systems in Ontario are governed by the Ministry of the Environment, Conservation and Parks (MECP) and are also subject to federal legislation. The purpose of a wastewater treatment system is to remove solids and nutrients in order to minimize the impact of the effluent on the receiving waterbody. The wastewater collection system collects and conveys wastewater, thus protecting public health and the environment from contaminated water.

This report was prepared in accordance with the requirements of the Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) Number 157-W601, dated January 11<sup>th</sup>, 2023, for the Napanee Wastewater Collection System, Schedule E, Section 4.6. This assessment pertains to the reporting period from January 1, 2024, to December 31, 2024. This report must be forwarded to the MECP no later than March 31<sup>st</sup> for the preceding year.

### 1.1 Facility and Systems Overview

The Napanee Wastewater Collection System consists of works for the collection and transmission of sanitary sewage, consisting of trunk sewers, separate sewers, nominally separate sewers, sewage pumping stations, and forcemains, with discharge to the Napanee Water Pollution Control Plant. Following treatment, the effluent is discharged into the Napanee River.

The system includes seven sanitary sewage lift stations, including: Clarksville Sanitary Lift Station (SLS), County Road 2 SLS, County Road 41 SLS, Grange Crescent SLS, Jim Kimmett Boulevard SLS, Napier Street SLS, Victoria Street SLS. There is also one (1) leachate/sewage pumping station known as the Enviro Park Receiving Station located on Enviro Park Lane.

The Napanee Wastewater Collection System contains no known combined sewers.

The system is operated and maintained by the Town of Greater Napanee through the Growth and Infrastructure, Utilities team.

## 2. Monitoring Data and Environmental Trends

As per the CLI-ECA Schedule E, Section 4.6.3, a summary of all required monitoring data along with interpretation of the data and any conclusions drawn from the data about the need for

future modifications to the Authorized System or system operations, is required, if applicable.

This section of the CLI-ECA reporting requirements does not apply.

### 3. Operating Problems Encountered and Corrective Actions Taken

Operating problems encountered and applicable corrective actions taken for 2024 are shown in Table 1.

**Table 1: 2024 Operating Problems and Corrective Actions Taken**

Location	Operating Problem	Corrective Action
Lift Stations	A few incidences of rags/debris impacting pumps at lift stations	A boom truck is readily available to lift pumps from dry/wet wells as needed, for access to remove the obstruction. Each sewage lift station has a duty and standby pump, and a spare is on hand for replacement as required.

### 4. Calibration, Maintenance, and Repairs

Monitoring and metering equipment is calibrated by a third party on a regular basis.

All sewage lift stations are monitored 24/7 by an alarm system which advises staff of any critical concerns including: pump failures, high levels, power failures, etc. All sewage pumping stations are also physically checked by Town of Greater Napanee Utilities staff at minimum, three days per week. All inspection data is kept in log sheets and is routinely uploaded to an electronic spreadsheet.

Preventative maintenance is scheduled for all equipment at the pumping stations at regular frequency (frequency depends on the equipment and type of maintenance). Maintenance activities are scheduled within the departments Work Order System, Antero.

Table 2 below outlines the maintenance and repairs that were completed in 2024.

**Table 2: 2024 Calibration, Maintenance, and Repair Activities**

<b>Pump Station/Location</b>	<b>Maintenance, Calibration and Repair Activities</b>
All Sewage Lift Stations	Scheduled inspections of sewage lift stations including amperage checks for pumps, run time, visual inspection of panel, alarm check on generators, test run of pumps, testing of level sensors/floats, visual inspection of wet well, grounds keeping, snow removal and other maintenance checks are completed at minimum, 3 days a week
Enviro Park Receiving Station	Scheduled inspection of leachate pumping station including amperage checks for pumps, run time, visual inspection of panel, alarm check on generator, test run of pumps, testing of level sensors/floats, visual inspection of wet well, grounds keeping, snow removal and other maintenance checks is completed a minimum of once per week
All Sewage Lift Stations with a natural gas backup generator	Generators automatically run once per week for half an hour
All Sewage Lift Stations with a generator	Scheduled monthly internal generator testing
All Sewage Lift Stations with a generator	Scheduled annual third-party generator testing and generator maintenance
All Sewage Lift stations with a wet well	Annual wet well pump/clean out
Jim Kimmett Blvd SLS, Highway 41 SLS, Napier St SLS, Victoria St SLS, and Enviro Park Receiving Station	Third-party Flow Meter Calibrations at sanitary sewage lift stations, as applicable (Doppler Flow Meters are unable to be calibrated)
County Road 8, Palace Rd, Yeomans St, Parks St, Catherine St, Henry St, Blake St, Alkenbrack St	Camera inspections
County Road 8, Palace Rd, Yeomans St, Parks St, Catherine St, Henry St, Blake St, Alkenbrack St	Sanitary flushing
Isabella Street Donald Street Union Street Hessford Street	Sanitary sewer breaks/blockages were identified and repaired.

## 5. Complaints

A standard operating procedure (SOP) is in place for addressing complaints received from the community. Table 3. presents complaints received during 2024 that concerned the sanitary sewage collection system. There were four complaints related to odours from the sanitary sewer system, all of which were investigated.

**Table 3: 2024 Collection System Complaints**

Location	Nature of Complaint	Actions
[REDACTED]	Sewer back-up	On resident side
[REDACTED]	Sewer back-up	On resident side
[REDACTED]	Sewer odour	On resident side
[REDACTED]	Sewer odour	Nothing identified, issue resolved
[REDACTED]	Sewer odour	Staff investigated but found no back ups or concerns
[REDACTED]	Sewer odour	
[REDACTED]	Sewer backup	On resident side
[REDACTED]	Sewer blockage	Staff investigated; a repair was necessary

## 6. Alterations to the Authorized System

There were no alterations to the Authorized System in 2024. The Town formally assumed West Bridge Estates Phase 7 (Cherrywood Parkway) in October 2024. This was already formally included in the CLI-ECA application. There were no alterations that pose a Significant Drinking Water Threat.

## 7. Collection System Overflows and Spills

The discharge of untreated sanitary sewage from the collection system can occur at any of the seven sewage lift stations and/or collection system manholes as the result of flooding events, power outages, pump failures, or sewer blockages. Measures are in place to prevent bypassing/spills which include: multiple (backup) pumps at all lift stations, spare pumps, high level alarms, backup power generation capability, and readily available vacuum truck service.

There were no collection system overflows or spill events that occurred during the reporting period.

## 8. Sanitary Sewage Collection System Improvement Efforts

The Town of Greater Napanee is undertaking initiatives to reduce sanitary collection system overflows, spills, and sewage treatment plant overflows and bypasses. These will ensure the sewage pump stations are operating as designed. The Town of Greater Napanee is expecting to receive significant funding by both the Provincial and Federal government, which will help fund the Napanee Water Pollution Control Plant Upgrades, which are expected to commence in 2025.

The key initiatives include:

- Continued scheduled sanitary sewer flushing and camera inspections. The specific areas are determined based on operational observations and annual operational budget.
- Continued routine inspections, maintenance/repairs/calibrations.
- Major WPCP Upgrade to commence in spring 2025, with a significant capacity increase.
- Sanitary sewer replacements as required and approved by Capital budgets.