



Annual Performance Report

2025

Napanee Wastewater Collection System

CLI-ECA Number: 157-W601

Town of Greater Napanee

Prepared: January 2026

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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 11th, 2023, for the Napanee Wastewater Collection System, Schedule E, Section 4.6. This assessment pertains to the reporting period from January 1, 2025, to December 31, 2025. This report must be forwarded to the MECP no later than March 31st 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 department's, 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 2025 are shown in Table 1.

Table 1: 2025 Operating Problems and Corrective Actions Taken

Location	Operating Problem	Corrective Action
Throughout	FOGs build-up	As a trial, Operators installed “Bug on a Rope” technology at the Hwy 41 and Hwy 2 lift stations.

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 2025.

Table 2: 2025 Calibration, Maintenance, and Repair Activities

Pump Station/Location	Maintenance, Calibration and Repair Activities
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
Jim Kimmell 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)
██████████	Sanitary sewer service breaks/blockages were identified and repaired.

Sanitary sewer flushing and camera inspections for this season, will be conducted in January 2026. Wet well clean outs are also expected to be completed in early 2026.

5. Complaints

A standard operating procedure (SOP) is in place for addressing complaints received from the community. Table 3. presents complaints received during 2025 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: 2025 Collection System Complaints

Location	Nature of Complaint	Actions
██████████	Sewer odour	Staff investigated but found no back ups or concerns. Suspected illegal dumping.
██████████	Sewer odour	Staff investigated, advised residents to contact insurance.
██████████	Sewer backup	Staff investigated, advised residents to contact insurance.
██████████	Sewer backup	Staff investigated, advised residents to contact insurance.

6. Alterations to the Authorized System

Installation of separate sanitary sewer mains and sanitary forcemains to service Springside Meadows Subdivision – Phase 1, located at 124 Old Hamburg Road is ongoing. This includes installation of new sanitary sewage pumping station that was constructed to service the Springside Meadows Subdivision. This also includes a crossing under the CN Rail and connecting to existing sewer main on Yeoman's Street. These sewer mains and pumping station is not currently on-line and has not yet been assumed by the Town.

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 was one incident of a manhole at Centre Street and Industrial Blvd overflowing on March 16, 2025, due to a significant rain event. This is a known bottleneck area and is currently under review as part of the Town's Utilities Masterplan project.

During this same precipitation event, the aeration cells, prior to the secondary clarifiers at the Water Pollution Control Plant overflowed onto the ground surface. GFL was contracted to hydrovac the impacted area. MECP Spills Action Centre was notified of both spill events. A follow-up email notification to the local MECP Officer was also made.

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 has received significant funding by both the Provincial and Federal government, which will help fund the Napanee Water Pollution Control Plant Upgrades.

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 contract was awarded in spring 2025 and commenced in summer 2025. The project is expected to be completed in the coming years.
- Sanitary sewer replacements as required and approved by Capital budgets.
- Installation of "Bug on a Rope" technology at Hwy 41 and Hwy 2 lift stations to trial effectiveness of fats, oils and grease (FOGs) control.
- Development of a Utilities Masterplan is currently underway to consider future growth and address areas of concern within the system.