



Village of Point Edward Sewage Collection System

Annual Performance Report 2023

Owned and operated by The Village of Point Edward



1 Wastewater Collection Facilities

1.1 General Information

The Village of Point Edward WPCP Collection Systems of works for the collection and transmission of sewage, consisting of trunk sewers, separate sewers, sewage pumping stations and one (1) Sewage Treatment Plant. The Village of Point Edward operates four (4) sewage pumping stations and is required to report annual performance on all four (4) of the facilities as per the Village of Point Edward WPCP Collection System ECA 036-W601.

This report covers the authorized system consisting of sewers, forcemains, and the following four (4) pump stations:

Asset ID	Pump Station	Location
454034	Michigan Pump Station	725 Michigan Ave
454039	Venetian Pump Station	1501 Venetian Blvd
454038	Helena Pump Station	516 Helena
454037	Kendall Pump Station	135 Kendall

The current configuration of the four (4) pump stations conveys all of the flow to the Village of Point Edward WPCP indicating that each pump station has adequate capacity.



1.2 Operations / Monitoring Data

All stations are controlled by all necessary equipment and controls to operate. PLC / HMI programming to control and monitor station equipment, level and alarms as well as trending. In general, current pump stations are operating as designed.

Currently the stations have no monitoring equipment.

Asset ID	Pump Station	Location	Capacity
454034	Michigan Pump Station	725 Michigan Ave	3.0m diameter Well equipped with 2 pumps rated for 25.2 L/s at 8.6m TDH – 2177 m3/d
454039	Venetian Pump Station	1501 Venetian Blvd	2 – 3.0m diameter Wells equipped with 2 pumps rated for 45.6 L/s at 13m TDH – 3940 m3/d
454038	Helena Pump Station	516 Helena	3.0m diameter Well equipped with 2 pumps rated for 26.0 L/s at 7.3m TDH – 2246 m3/d
454037	Kendall Pump Station	135 Kendall	17.3 m3 capacity well equipped with 2 pumps rated for 18.5 L/s at 6.5 m TDH – 1598 m3/d

1.3 Calibration, Maintenance and Repairs

Currently the pump stations do not have equipment that requires calibration. Regular inspections and maintenance are performed by operations staff and tracked using a maintenance system (MESH GO Evo). MESH monitors routine and preventative maintenance scheduling. Larger or specialized maintenance activities such as CCTV is completed by third party contractors.

- **Pump Stations**

All pump stations have weekly PS operational checks, annual cleaning done, annual inspections and pump maintenance. Michigan Pump Station has a generator which has



weekly generator run and check. Pumps are pulled and blockages are removed when needed. Pump stations without a stationary generator have hookup and manual transfer switches which are used during power outage events. Annual generator service is completed by Toromont.

Currently Helena Pump Station (Asset #454038) requires a rebuild. A new pump was been ordered and is currently onsite to replace the existing at which point existing will be rebuilt with parts kit that is also onsite and will be available in an emergency backup situation.

- **Sanitary Main Inspection and Flushing**

Badger Daylighting was contracted to complete sewer main flushing and perform CCTV inspection with video footage and findings reported to Environmental Services Manager.

1.4 Complaints

Currently there have been no outstanding complaints however, Michigan Pump station and Helena Pump station have Carbon canisters permanently fixed on vent stacks to prevent potential odours for those respective neighbourhoods.

1.5 Operational Issues & Corrective Actions

No operational issues were identified in the reporting period.

1.6 Alterations to the Authorized System

No Alterations have taken place at the time of this report.

1.7 Overflows and Spills

There were no overflows or spills at the time of this report.

1.8 Summary of Efforts to Prevent Overflows, Spills and Bypasses

The Village of Point Edward has had no overflows, spills or bypasses to report and is continually committed to preventing such events moving forward with ongoing and continuous improvement within the collection system and pump stations assets and policies.