

— Township of —

SEVERN

Collection System

Washago

2025 Annual Report



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Introduction



Township of Severn prepared the 2025 annual report for the Washago Wastewater Collection System in compliance with the Environmental Compliance Approval (ECA Number 148-W601, Issue 1, dated May 19, 2023). This report summarizes notable operating events, repair and maintenance, non-compliance issues, Influent quality, and flow data for 2025. This report is based on operating data collected and compiled by the Township of Severn.

The Washago Wastewater Collection System consists of 3 sewage pump stations.

- Muskoka Street SPS#1
- Albany Street SPS#2
- Muskoka Street SPS#3

All sewage pump stations have a control panel for pump and level controls. Two (2) submersible pumps are installed at each station and are run as lead lag.

Each station is equipped with a level transducer with float back-ups (lead and lag start) and a high-level float. In this system all stations are equipped with UPS battery backups and TOSIBOX for remote access and allows for communication with the Washago Water Treatment Plant so that trending can be monitored and to also receive station alarms. The Washago Water Treatment Plant has a SCADA program to trend pump stations.

Generators

Washago collection system has no stand-alone generators. All stations have the capability to have portable generators connected for power outages in the system.

Raw Sewage Quality



Table 1 illustrates the monthly and annual average raw sewage quality results.

Table 1: 2025 Monthly Raw Influent Quality

Month	BOD ₅ (mg/L)	TSS (mg/L)	Total Phosphorus (mg/L)	TKN (mg/L)
January 7, 2025	142	136	3.17	29.3
February 4, 2025	42	60	0.90	9.5
March 4, 2025	219	290	4.81	42.7
April 8, 2025	38	67	1.05	11.3
May 7, 2025	146	220	4.46	44.2
June 10, 2025	78	181	3.51	34.1
July 15, 2025	275	398	7.44	53.4
August 6, 2025	74	160	4.84	47.4
September 9, 2025	172	229	6.03	51.9
October 6, 2025	146	248	5.20	46.9
November 4, 2025	305	164	2.74	26.2
December 3, 2025	118	199	5.25	60.5

Flow

Muskoka Street (Main) pump station is equipped with two submersible sewage pumps, with a pumping capacity of 14.4 L/s at 15.6 m T.D.H.

Albany Street pump station is equipped with two submersible sewage pumps, each rated at 6.28 L/s at 8.3 m T.D.H.

Muskoka Street pump station is equipped with two submersible sewage pumps. Each rated for 6.76 L/s at 9.0 m T.D.H.

Muskoka and Albany pump stations pump to a gravity maintenance hole, which feeds the Main pump station. The main pump station pumps through a force main to the Washago Lagoon system.



Influent Flows

The rated capacity of the Washago lagoon is 47,800 m³, as listed in the C of A.

Table 2 shows daily and monthly average influent flows.

Table 2: Summary of Influent Flows

Month	Total Monthly Flow (m3)	Average Daily Flow (m3/day)
January	2525	82
February	3582	128
March	5948	192
April	2536	84
May	2370	76
June	2039	68
July	2523	81
August	1558	50
September	1581	50
October	2088	67
November	2394	80
December	2741	88

Charts



Figure 1: Washago Lagoon 2025 monthly flow total values in cubic metres (m³).

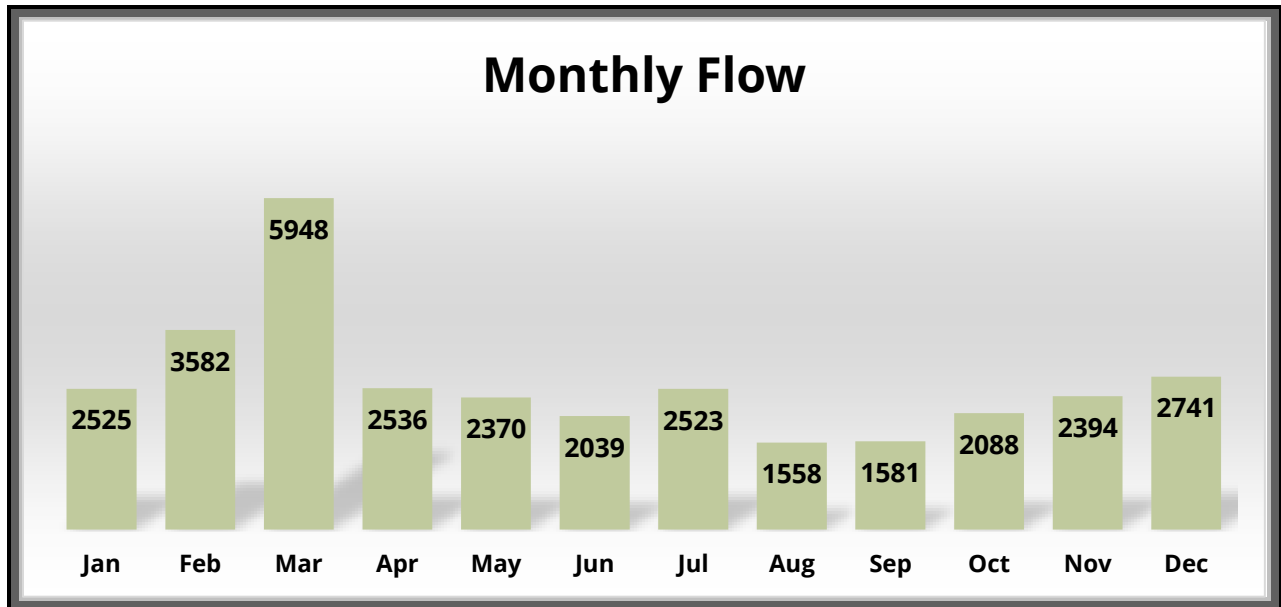
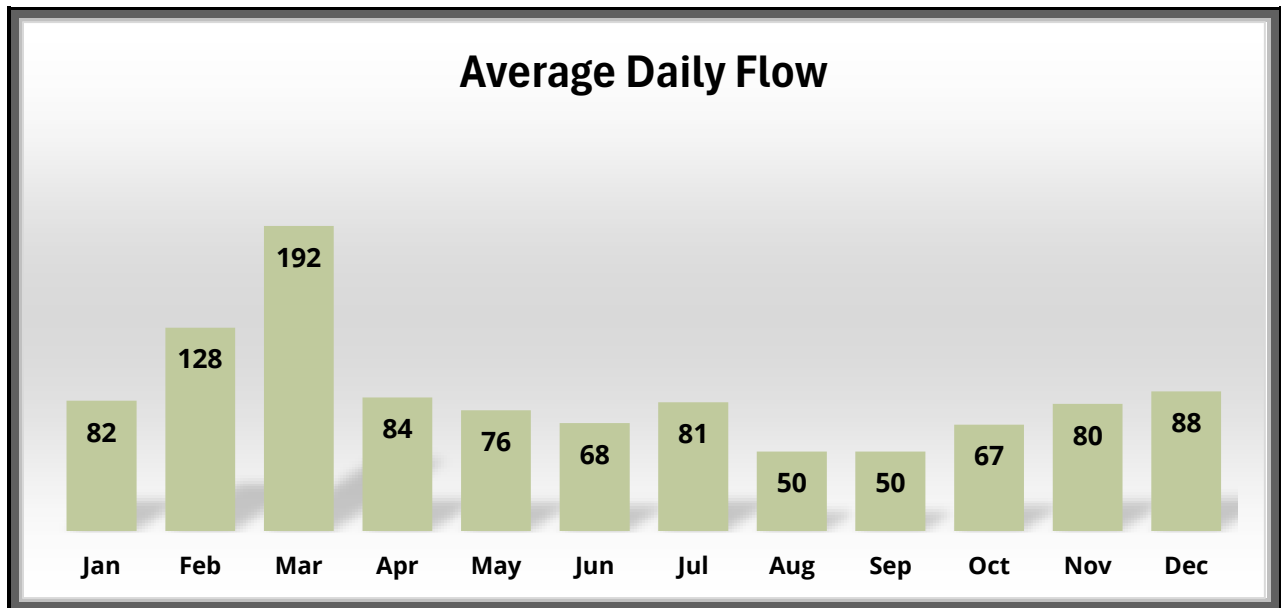


Figure 2: Washago Lagoon 2025 average daily flow total values in cubic metres (m³).



Maintenance Summary



Collection System

All maintenance in 2025 on major structures, apparatus and/or mechanical equipment is summarized below.

The following is a list of preventative and emergency maintenance completed on the sewer system in 2025:

- sewage pump stations were cleaned to remove grease, grit, and other debris
- all sewage pumping station alarms were tested monthly
- all floats in the sewage pumping stations were inspected and cleaned monthly debris removed from pumps in the sewage pumping stations as warranted
- approximately 25% of maintenance holes were inspected
- all generators were serviced

Summary of Complaints

There were no complaints in 2025 related to Municipal infrastructure.

Summary of Calibration and Maintenance on Effluent Monitoring Equipment

Calibration is not required. Drawdowns used for flow calculations.

Summary of By-Pass, Spills or Abnormal Discharge Events

There were no bypasses, spills, or abnormal discharge events in 2025.

System Alterations

There were no system alterations in 2025.