

— Township of —

SEVERN

Collection System
Coldwater
2025 Annual Report



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Generators

The Coldwater collection system has two stand-alone generators. One is located at the Main SPS, and the other is located at Hardware SPS. Both are load-tested monthly. All stations can 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 | CBOD ₅ (mg/L) | TSS (mg/L) | Total Phosphorus (mg/L) | TKN (mg/L) |
|----------------|-----------------------------|---------------|----------------------------|---------------|
| January | 138 | 160 | 3.71 | 34.6 |
| February | 119 | 169 | 4.54 | 44.4 |
| March | 84 | 98 | 2.40 | 22.5 |
| April | 87 | 100 | 2.52 | 24.0 |
| May | 188 | 241 | 5.47 | 45.8 |
| June | 120 | 142 | 4.46 | 42.0 |
| July | 212 | 246 | 7.06 | 61.5 |
| August | 227 | 286 | 7.07 | 55.3 |
| September | 135 | 91 | 4.32 | 38.0 |
| October | 135 | 130 | 4.41 | 43.3 |
| November | 78 | 106 | 2.81 | 29.8 |
| December | 159 | 170 | 4.81 | 44.7 |
| Average | 140 | 164 | 4.46 | 40.5 |

Pump Station Capacity and Flow

Main pump station is equipped with three submersible sewage pumps, with a pumping capacity of 18.8 L/s at 16m T.D.H. The pump station pumps directly to the Coldwater Water Pollution Control Plant.

Reinbird pump station is equipped with one submersible sewage pump rated at 60Hz/230V/5hp/14 FLA/ 3phase. The station pumps via force main to the River Street sewer.

Hardware pump station is equipped with two submersible sewage pumps. Each rated for 5hp/60Hz/3phase. The station is pumped to the River Street sewer.

Community Centre pump station is equipped with two submersible sewage pumps. Each rated 60Hz/600V/5hp/ 5FLA/ 3phase. The station is pumped via force main to the Coldwater Road sewer.

Donlands pump station is equipped with two submersible sewage pumps. Each rated 2.28 L/s at 10.4m TDH. The station is pumped via force main to the Gray Street sewer.

Influent Flows

The rated capacity of the Coldwater WPCP is 921 m³/day (average daily flow) with a peak flow rate of 3,420 m³/day, 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 (m ³) | Average Daily Flow (m ³ /day) | Average Daily Flow (% of Rated Capacity) | Peak Daily Flow (m ³ /day) | Peak Daily Flow (% of Rated Capacity) | Peak Daily Flow (% of Rated Peak Flow) |
|----------------|--------------------------------------|--|--|---------------------------------------|---------------------------------------|--|
| January | 19773 | 638 | 69% | 1450 | 157% | 45% |
| February | 12097 | 432 | 47% | 647 | 70% | 19% |
| March | 44463 | 1434 | 156% | 3155 | 343% | 92% |
| April | 31806 | 1060 | 115% | 2338 | 254% | 68% |
| May | 19022 | 614 | 67% | 975 | 106% | 29% |
| June | 13251 | 442 | 48% | 585 | 64% | 17% |
| July | 10446 | 337 | 37% | 463 | 50% | 14% |
| August | 10241 | 330 | 36% | 451 | 49% | 13% |
| September | 9851 | 328 | 36% | 403 | 44% | 12% |
| October | 10237 | 330 | 36% | 485 | 53% | 14% |
| November | 16423 | 547 | 59% | 955 | 104% | 28% |
| December | 18562 | 599 | 65% | 887 | 96% | 26% |
| Average | 18014 | 591 | | 1066 | | |
| Max | 44463 | 1434 | | 3155 | | |
| Total | 216173 | | | | | |

Charts

Figure 1: Coldwater WWTP 2025 total monthly flow total values are in (m³)

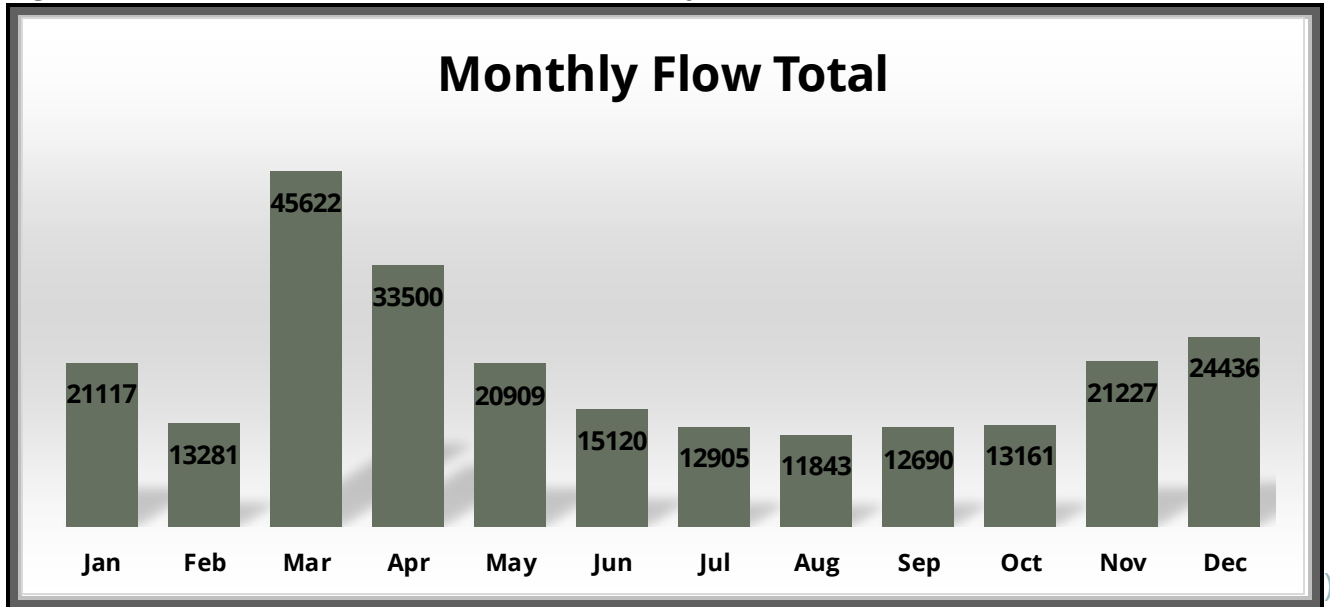
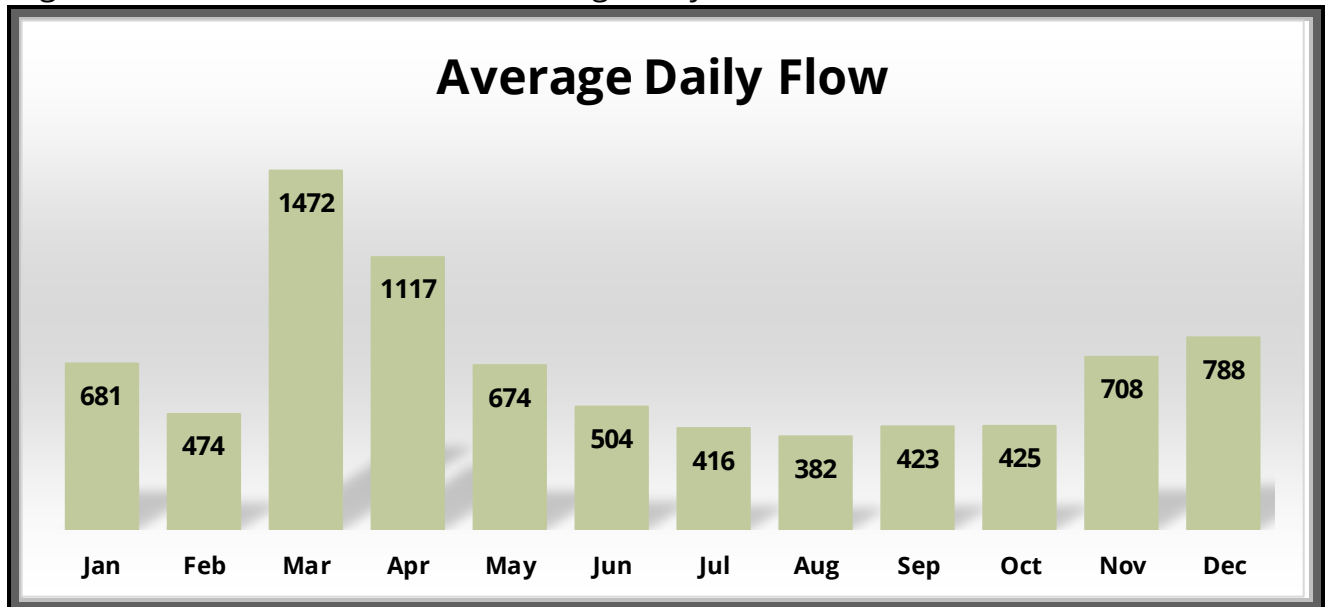


Figure 2: Coldwater WWTP 2025 average daily flow total values are in (m³)



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 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
- flushed approximately 1289 metres (m) of sewer main
- 1289 m of sewer main inspected by video camera to identify necessary repairs
- replaced pump #2 at Main Pump Station

Summary of Complaints

There was one complaint for sewer odour in 2025.

Summary of Calibration and Maintenance on Effluent Monitoring Equipment

Magnetic flow meters were calibrated by a certified technician on February 26, 2025. All in-house and collection system monitoring equipment is calibrated based on the manufacturer's recommendations.



Summary of By-Pass, Spills or Abnormal Discharge Events

There was one bypass event in 2025. The Main pump station in Coldwater bypassed due to a major ice storm and rainfall event.

System Alterations

There were no system alterations in 2025.