

MUNICIPALITY OF STRATHROY-CARADOC

Sewage Collection System 2024 Annual Report

January 1, 2024 to December 31, 2024

as per ECA # 058-W601 Section 4.6



1. Summary of all Required Monitoring Data (Certificate of Approval 4.6.3)

The Operating data is summarized in Appendix A. The collection system operated as expected throughout the reporting period. No future modifications are needed at this time.

2. Operating Issues and Corrective Actions (Certificate of Approval 4.6.4)

The one operating issue during the reporting period started on July 15, 2024 and ended July 18, 2025 at 11:59 pm. The community received a large amount of rainfall and there was flooding throughout the community resulting in the Albert St PS to run several pumps continuously over that time period. The Albert St PS was closely monitored and the flows eventually subsided.

3. Calibration/Maintenance Summary (Certificate of Approval 4.6.5)

Flow meter calibrations were carried out by SCG in February 2024. The operators performed the routine maintenance throughout the year. In addition to the routine maintenance, which includes greasing and oiling, a detailed list is included in Appendix B.

4. Complaints Summary (Certificate of Approval 4.6.6)

The following is a list of customer complaints and actions taken regarding the wastewater collection system.

Date	Issues	Location	Action
16-Jul-24	Sewer back up	234 Maitland St	Manholes checked for water, level high due storms
22-Jul-24	Sewer back up	259 York St	Flushed forcemain, service cleared
15-Aug-24	Sewer back up	629 Victoria St	Cleaned out backed up manhole, flushed line
15-Aug-24	Sewer back up	639 Victoria St	Cleaned out backed up manhole, flushed line
16-Dec-24	Sewer back up	629 Victoria St	Cleaned out backed up manhole, flushed line
17-Dec-24	Sewer back up	639 Victoria St	Cleaned out backed up manhole, flushed line

5. Summary of Alterations (Certificate of Approval 4.6.7)

The Albert St Pump Station construction project started in 2023 and continued in 2024. This project included:

- Replacement of electrical equipment (MCC, ATS, etc.)
- Replacement of surge suppression system,

- Modifications to the building to comply with NFPA 820 requirements, including:
- Exterior works in support of the works;
- Replacement of HVAC equipment as it is at the end of useful life.
- Replacement of roof due to age related deterioration.

Queen St Phase 2– This project involved the replacement of sanitary sewers complete with services and all appurtenances. This construction project was started in 2024 and is anticipated to conclude in 2025. This work will include starting on Arthur St going south along Queen St stopping south of the railroad tracks where Queen St Phase 1 project ended.

6. Overflows/Spills (Certificate of Approval 4.6.8)

There were no overflows or spills of sewage during the reporting period.

7. Reduction of Overflows/Spills/Bypasses (Certificate of Approval 4.6.9)

There were no overflows or spills of sewage during the reporting period.

As part of the Municipality's Masterplan Project, the Municipality completed the Pollution Control Prevention Plan.

APPENDIX A

Strathroy-Caradoc Sanitary Sewer Collection System

Year: 2024

		January	February	March	April	May	June	July	August	September	October	November	December	Average
Albert St PS														
Pump #1 Avg	hrs	3.5	3.1	3.0	3.1	3.3	3.9	6.6	3.9	3.8	3.7	4.4	4.0	3.9
Pump #2 Avg	hrs	4.2	3.2	3.6	3.2	3.4	4.0	6.6	3.9	3.9	3.8	2.7	3.3	3.8
Pump #3 Avg	hrs	3.9	3.2	3.3	3.2	3.3	4.1	4.7	4.0	3.9	3.8	4.5	4.4	3.9
Avg Daily Flow	m ³ /day	4,232	3,369	3,890	4,032	4,255	4,128	5,943	3,899	3,986	3,558	3,717	3,516	4,043.8
Arnella PS														
Pump #1 Avg	hrs	0.2	0.1	0.1	0.1	0.1	0.1	1.0	0.2	0.2	0.2	0.2	0.2	0.2
Bella PS														
Pump #1 Avg	hrs	0.2	0.1	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Pump #2 Avg	hrs	3.5	0.2	0.2	0.2	0.6	0.4	0.1	0.2	0.2	0.5	0.1	0.2	0.5
Arnella St PS														
Pump #1 Avg	hrs	1.8	1.6	1.7	2.0	2.4	3.5	2.1	1.6	1.1	1.1	1.0	1.0	1.7
Avg Daily Flow	m ³ /day	83	75	79	92	112	161	98	83	55	53	46	47	82.1
McNab PS														
Pump #1 Avg	hrs	1.7	1.4	1.6	1.6	1.9	5.2	6.4	5.8	7.3	6.8	7.3	5.6	4.4
Pump #2 Avg	hrs	1.6	1.3	1.5	1.5	1.7	5.0	6.0	5.6	6.9	6.7	10.6	7.5	4.7
Avg Daily Flow	m ³ /day	578	498	547	576	648	1,835	2,242	2,215	2,625	2,490	2,733	1,948	1,577.9
Millpond PS														
Pump #1 Avg	hrs	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.4
Pump #2 Avg	hrs	0.4	0.4	0.3	0.3	0.4	0.3	0.5	0.3	0.3	0.2	0.2	0.2	0.3
Park PS														
Pump #1 Avg	hrs	2.2	2.5	1.8	1.9	1.9	1.9	2.4	1.7	1.6	1.5	1.9	1.5	1.9
Pump #2 Avg	hrs	2.2	2.4	1.8	2.0	1.9	1.9	2.4	1.8	1.6	1.5	1.4	1.5	1.9
Avg Daily Flow	m ³ /day	375	418	302	335	325	339	399	299	258	246	230	247	314.4
Metcalfe PS														
Pump #1 Avg	hrs	2.1	2.2	2.0	1.9	1.9	1.9	2.1	1.7	1.6	1.6	1.6	1.7	1.9
Pump #2 Avg	hrs	2.0	2.1	1.9	1.8	1.9	1.9	2.0	1.8	1.6	1.6	1.6	1.6	1.8
Avg Daily Flow	m ³ /day	1,558	1,291	1,128	1,135	1,150	1,121	1,299	1,070	1,004	998	950	1,013	1,143.1
North West PS														
Avg Daily Flow	m ³ /day	219	218	203	219	221	227	232	275	217	210	208	220	222
Main PS														
Avg Daily Flow	m ³ /day	356	345	319	352	360	364	374	344	348	338	346	349	350

APPENDIX B

2024 Pump Stations Annual Maintenance Summary:

January

- Electrical cabinet inspection and cleaned, Mill Rd.
- Run generators, various pump stations

February

- Run generators, various pump stations

March

- Clean out wet wells quarterly, Albert St., NW., Mt Brydges Main, Metcalfe
- Run generators, various pump stations

April

- Run generators, various pump stations

May

- Annual generator inspections, Albert St., Mt Brydges Main, McNab, Metcalfe, NW.,
- Pulled and cleaned both pumps and check valve 1, Mt Brydges Main
- Cleaned wet well, McNab

June

- Cleaned wet well quarterly, Mill Rd., Albert St, NW., Mt Brydges Main, High St.,
- Replaced generator battery, Mt Brydges Main
- Pulled and cleaned both pumps and check valves, Mt Brydges Main
- Run generators, various pump stations
- Replaced burnt out fuses, High St.
- Replaced battery in UPS, High St.

July

- Run generators, various pump stations
- Replaced UPS batteries, NW, McNab, Arnella, Bella St., Metcalfe
- Replaced generator battery, Mt Brydges NW PS
- Pulled and cleaned Pump 1, Mt Brydges NW PS
- Pulled and cleaned Pump 2 and both check valves, Mt Brydges Main PS

August

- Run generators, various pump stations
- Replace Transformer in MCC. Metcalfe St PS

September

- Clean out wet wells quarterly, Albert St., NW., Mt Brydges Main, Metcalfe
- Run generators, various pump stations
- Repair broken handle and disconnect, Park St PS

October

- Run generators, various pump stations
- Pulled and cleaned Pump 2, Mt Brydges NW PS
- Pulled and Cleaned both pumps, Mt Brydges Main PS
- Cleaned both check valves, Mt Brydges Main PS
- Pulled and cleaned pump 1 and check valve, Mt Brydges Main PS
- Replaced electrical breaker, High St., Bella St.
- Replaced circuit board battery in PLC, Arnella
- Replaced block heater, Metcalfe

November

- Run generators, various pump stations
- Pulled and cleaned both pumps, Mt Brydges NW PS
- Pulled and cleaned pump 1 and both check valves, Mt Brydges Main PS
- Flow meter replaced, Mt Brydges Main PS

December

- Clean out wet wells quarterly, Albert St., NW., Mt Brydges Main, Metcalfe
- Run generators, various pump stations