Prescott Wastewater System

Waterworks # 110001122

2025 Annual Report

Prepared For: Town of Prescott

Reporting Period of January 1st – December 31st 2025

Issued: March 12th, 2026

Revision: 0

Operating Authority:

OCWA

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

This report has been prepared to meet the requirements set out in:

Document	Document #	Issue Date	Issue Number
Facility ECA	6996-9ZYNWH	October 5, 2015	N/A
CLI ECA	161-W601	August 15, 2022	N/A

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1 Revision History

Date	Rev#	Revisions	Revised By
March 12, 2026	0	Annual Report Issued	Selena Shane, PCT

2 Operations and Compliance Reliability Indices

Compliance Event	Details
Ministry of Environment Inspections	There was no MECP inspection in 2025.
Ministry of Labour Inspections	There was no MOL inspection in 2025.
Non-Compliance	There were no non-compliances in 2025.
Community Complaints	There were no community complaints in 2025.
Spills	There were no spills in 2025.
Overflows	There were 2 overflow events in 2025.
Bypass	There were no bypass events in 2025.

3 Process Description

Prescott's sewage collection system is a gravity fed collection system consisting of combined sanitary and storm sewers. Five pumping stations pump wastewater from the collection system to the wastewater treatment facility.

Prescott's wastewater treatment plant is a Class III treatment facility. Raw sewage is pumped to the facility from an onsite pumping station (SPS #6), which is equipped with an influent bar screen and three dry well pumps. Wastewater passes through the inlet headworks where solids are removed using a mechanical rotary screen and conveyor. Grit is then removed using two parallel vortex grit separators. Aluminum sulphate is injected downstream of the grit separators to assist in phosphorous removal. The wastewater then enters three parallel, continuous-flow Sequencing Batch Reactors (SBRs) which operate with automated cycles (air off, air on, settle, and decant). Each SBR is equipped with a fine bubble aeration system, submersible mixer, variable speed effluent decanter and sludge removal pump. Effluent decanted from the SBRs enters an equalization tank where a pinch valve acts to ensure consistent flow through the UV disinfection system. The UV disinfection system consists of one channel with two units, one duty and one standby. Following disinfection, the effluent passes through an outfall chamber where grey water is recovered for plant processes before discharging to the St. Lawrence River.

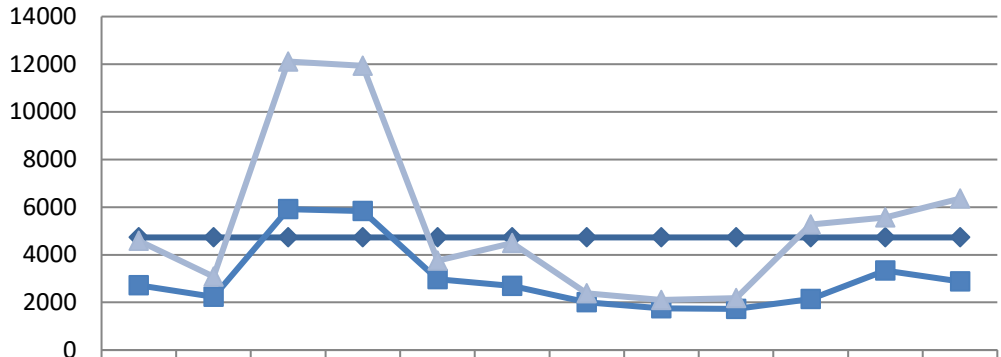
Activated sludge, which has been removed from the SBRs, is pumped to a two-stage aerobic digester equipped with a coarse bubble aeration system and manual decant arms. Activated sludge is stabilized (or digested) and dewatered, with the supernatant returning to the plant headworks. Digested sludge is

then pumped to one of two large holding tanks, each equipped with a coarse bubble aeration system and manual decant arm, where further dewatering occurs. From the holding tanks, liquid sludge can be pumped to one of two large drying beds or hauled offsite for land application.

4 Treatment Flows

The hydraulic flows reaching the treatment facility in 2025 averaged 3,019 m3/day which represents 64% of the 4,728 m3/day design.

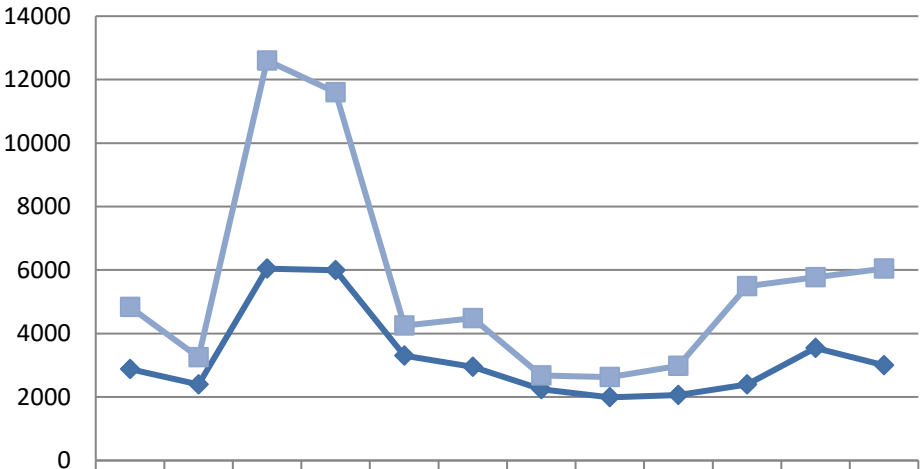
4.1 Raw Flow (m3/d)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plant Design Limit	4728	4728	4728	4728	4728	4728	4728	4728	4728	4728	4728	4728
Average Daily Flow	2714	2240	5914	5829	2977	2688	2004	1752	1728	2140	3330	2886
Maximum Daily Flow	4590	3086	12113	11928	3747	4494	2376	2103	2182	5268	5567	6364

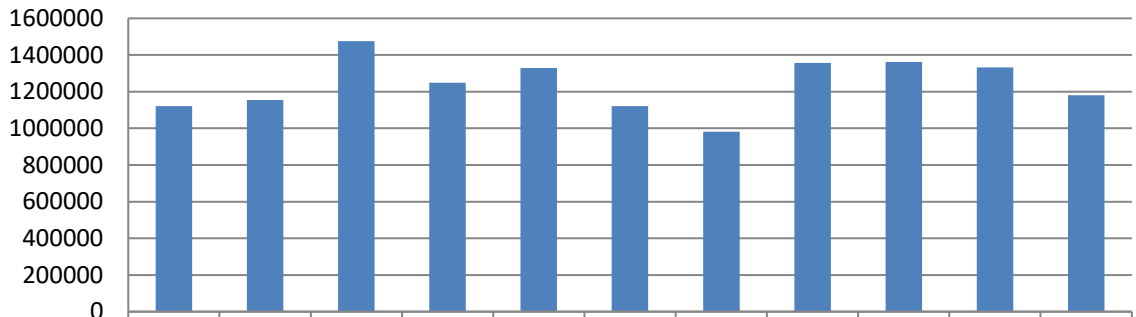
*The exceedances over the plant design limits are due to precipitation.

4.2 Effluent Flow (m3/d)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average Daily Flow (m3/d)	2879	2394	6044	5992	3299	2950	2242	1989	2065	2396	3543	3002
Maximum Daily Flow (m3/d)	4835	3249	12603	11597	4248	4481	2676	2627	2984	5495	5773	6047

4.2.1 *Annual Comparison (m3)*



	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Annual Flow	1122009	1154729	1475823	1249025	1329270	1121566	980830	1356642	1362637	1332127	1180919

4.3 Imported Sewage

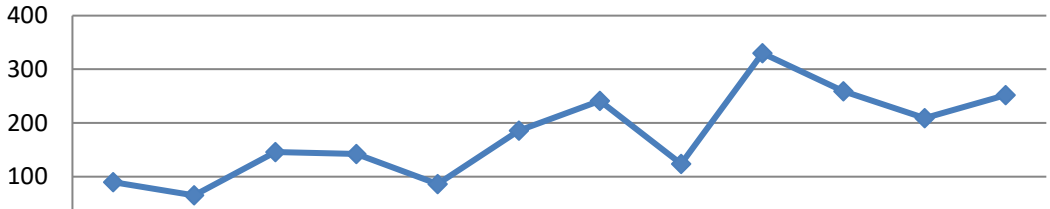
There is no imported sewage accepted at the treatment facility.

5 Raw Sewage Quality

Results of raw sewage concentrations are available in the Facility Performance Assessment Report in Appendix A.

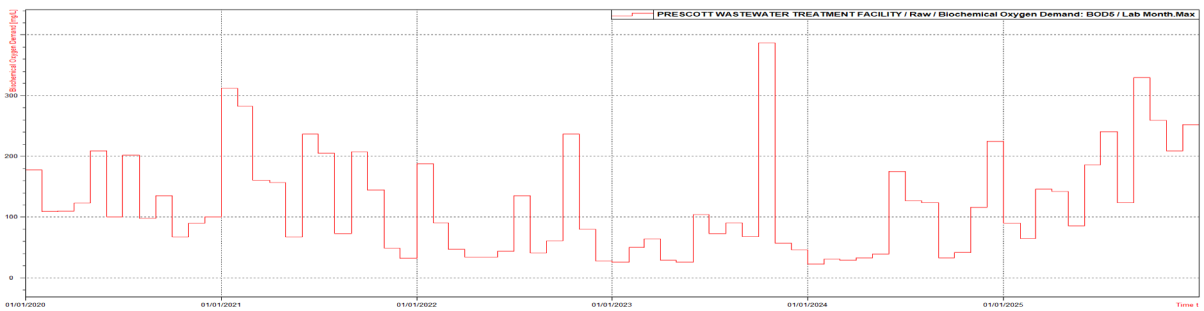
5.1 Influent Trending

5.1.1 *BOD (mg/L)*

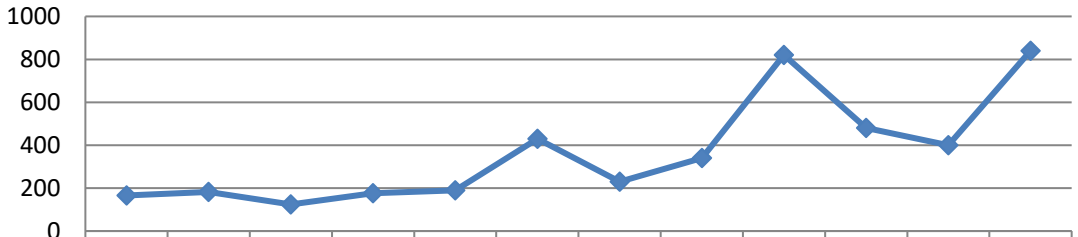


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BOD (mg/L)	90	65	146	142	86	186	241	124	330	259	209	252

5.1.2 *5-year Trend BOD5 (mg/L)*

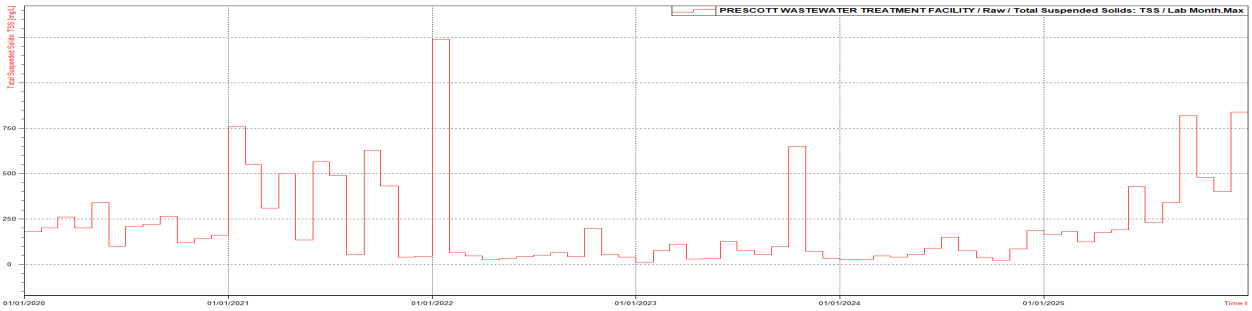


5.1.3 *Total Suspended Solids (mg/L)*

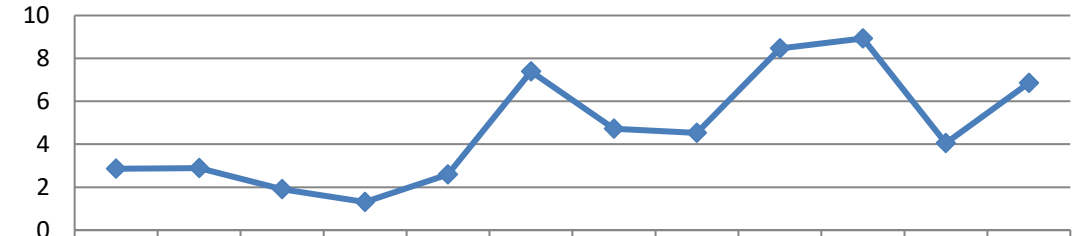


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TSS (mg/L)	166	182	124	176	190	430	230	340	820	480	400	840

5.1.4 *5-year Total Suspended Solids (mg/L)*

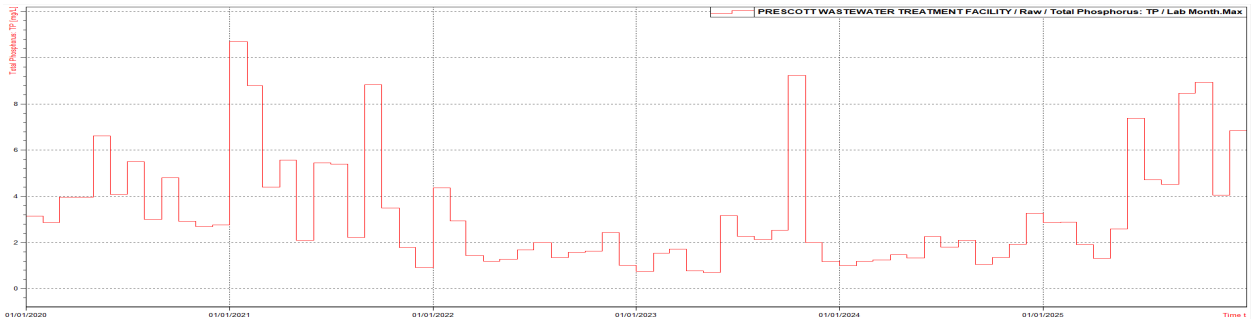


5.1.5 *Total Phosphorus (mg/L)*

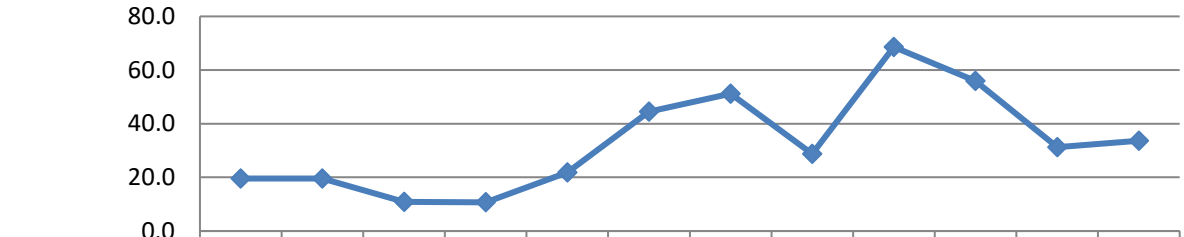


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TP (mg/L)	2.86	2.89	1.91	1.31	2.59	7.39	4.72	4.53	8.47	8.93	4.05	6.85

5.1.6 *5-year Total Phosphorus (mg/L)*

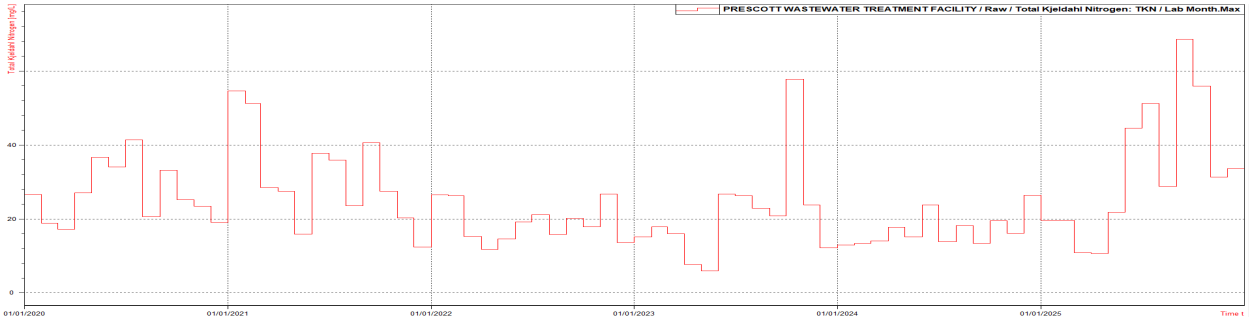


5.1.7 *Total Kjeldahl Nitrogen (TKN) (mg/L)*



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TKN (mg/L)	19.6	19.6	10.9	10.7	21.8	44.5	51.2	28.8	68.6	55.9	31.3	33.6

5.1.8 *5-year Total Kjeldahl Nitrogen (TKN)*



5.2 Imported Waste Quality

There is no imported sewage accepted at the treatment facility.

5.3 Imported Waste Quality

There was no imported waste in 2025.

6 Effluent Quality

The monthly average concentrations of the carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), total ammonia nitrogen (TAN), and total phosphorus (TP) remained below the effluent objectives and limits outlined in the facility's ECA during 2025. In addition, the effluent pH remained within the limits and objectives throughout the year. The geometric mean density of E. Coli in the effluent also remained within the ECA limit and objective in 2025.

6.1 Effluent Quality Assurance and Control Measures Taken

This system is part of OCWA's Seaway Valley Cluster. The cluster is supported by the Eastern Regional Hub, and corporate resources. Operational Services are delivered by OCWA staff that live and work in the community. The systems are operated to meet compliance with applicable regulations. The system has comprehensive manuals detailing operations, maintenance, instrumentation, and emergency procedures. All procedures are treated as active documents and are updated as required. These documents are also part of OCWA's Quality & Environmental Management System.

The process is reviewed and maintained by certified operators. These operator's complete in-house rounds and testing to monitor the process. All sampling and analysis follow approved methods and protocols for sampling, analysis and recording as specified in the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works", the Ministry's publication, "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" and the publication, "Standard Methods for the Examination of Water and Wastewater".

All final effluent samples collected during the reporting period to meet legislated sampling requirements are submitted to Caduceon Kingston for analysis, with the exception of pH and temperature. Caduceon Kingston has been deemed accredited by the Canadian Association for Laboratory Accreditation (CALA), meeting strict provincial guidelines including an extensive quality assurance/quality control program. By choosing this laboratory, the Ontario Clean Water Agency is ensuring appropriate control measures are undertaken during sample analysis. The pH and temperature parameters are analyzed in the field at the time of sample collection by certified operators, to ensure accuracy and precision of the results obtained.

OCWA uses several computer systems which include:

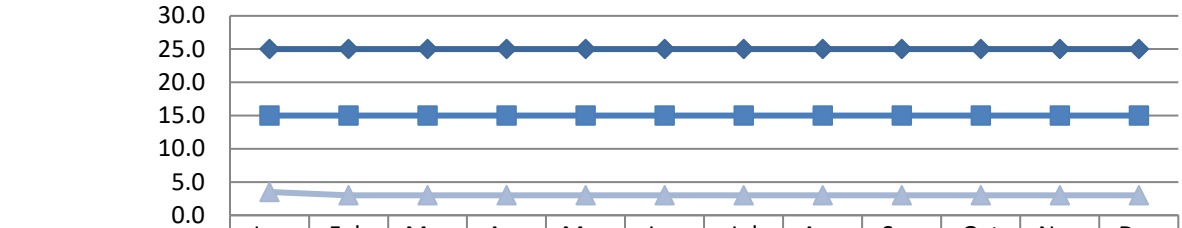
- Process Data Management (PDM)
  - This database program consolidates all operational data from a variety of sources including field data, online instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.
- Maximo – OCWA's Work Management System (WMS)
  - This program is used to track and schedule maintenance activities for all equipment in the system. It is also used to assign tasks for specific operational tasks.
- Wonderware (OUTPOST5)/SCADA
  - Wide-area SCADA system allows for process optimization and data logging, process trending, remote alarming.

The operations team also has access to a network of operational compliance and process specialists to assist for emerging process issues. This aids in establishing additional control measures to ensure a quality effluent product. Detailed individual sample results for both raw sewage and final effluent can be requested from the operating authority.

6.2 CBOD5 (mg/L)

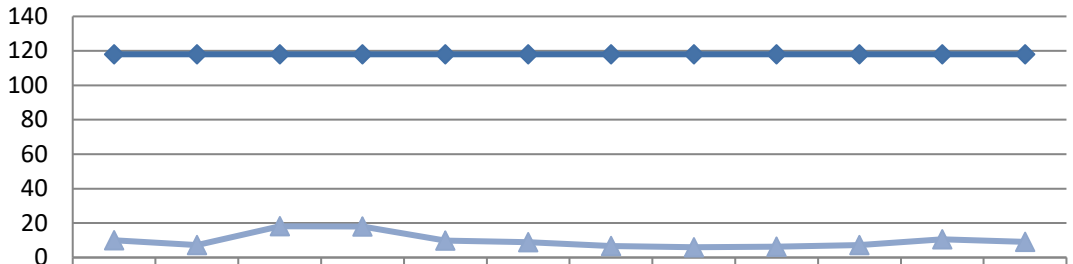
Compliance Limit and Objective for this parameter was met in 2025.

6.2.1 Concentration (mg/L)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
ECA Objective	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Average	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

6.2.2 Loading (kg/d)

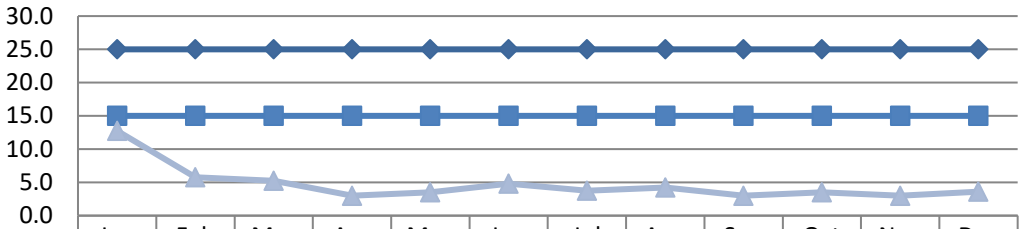


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	118	118	118	118	118	118	118	118	118	118	118	118
Average	10.08	7.18	18.13	17.98	9.90	8.85	6.73	5.97	6.19	7.19	10.63	9.01

6.3 Total Suspended Solids (mg/L)

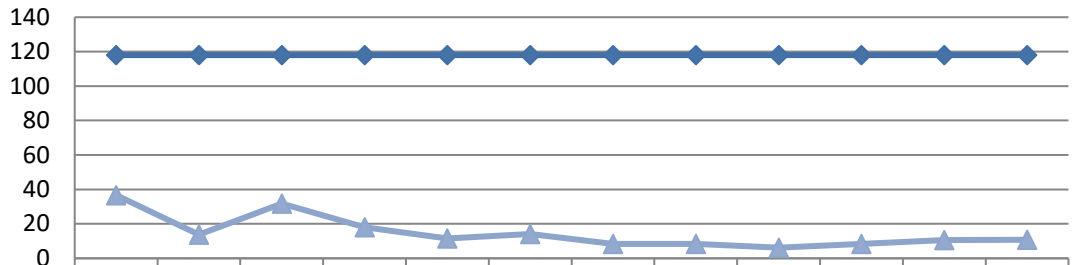
Compliance Limit and Objective for this parameter was met in 2025.

6.3.1 Concentration (mg/L)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
ECA Objective	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Average	12.8	5.8	5.3	3.0	3.5	4.8	3.8	4.3	3.0	3.5	3.0	3.6

6.3.2 Loading (kg/d)

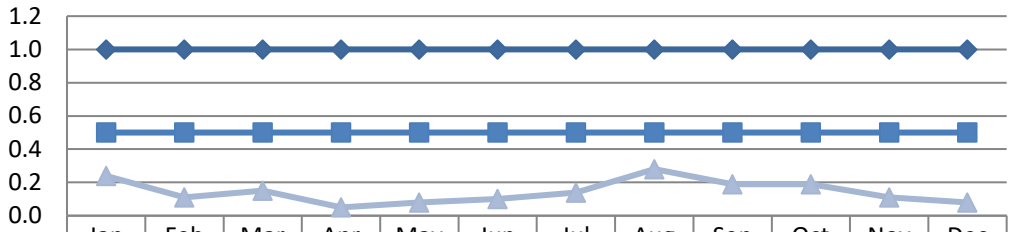


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	118	118	118	118	118	118	118	118	118	118	118	118
Average	36.7	13.8	31.7	18.0	11.5	14.2	8.4	8.5	6.2	8.4	10.6	10.8

6.4 Total Phosphorus (mg/L)

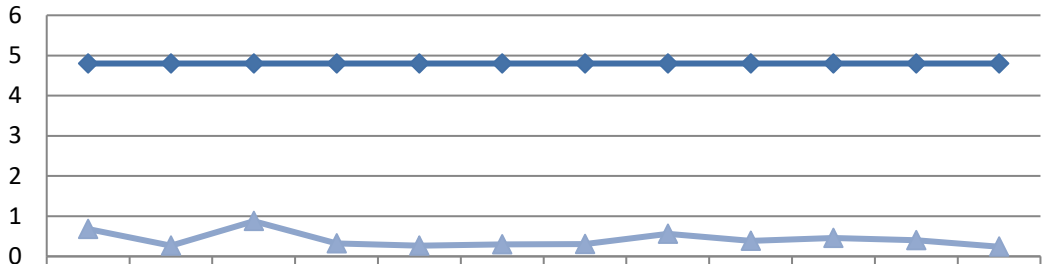
Compliance Limit and Objective for this parameter was met in 2025.

6.4.1 Concentration (mg/L)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ECA Objective	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Average	0.24	0.11	0.15	0.05	0.08	0.10	0.14	0.28	0.19	0.19	0.11	0.08

6.4.2 Loading (kg/d)

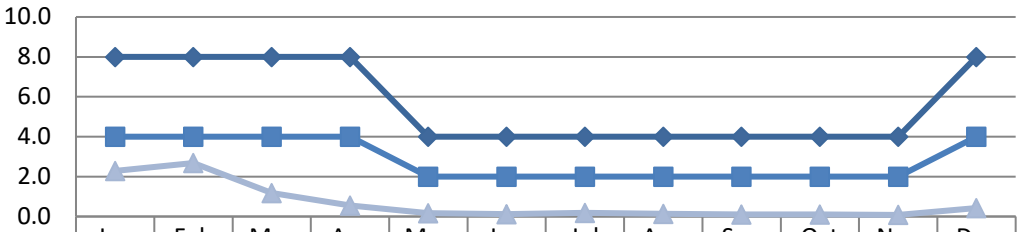


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Average	0.68	0.26	0.88	0.32	0.26	0.30	0.30	0.56	0.39	0.46	0.40	0.24

6.5 Total Ammonia Nitrogen (mg/L)

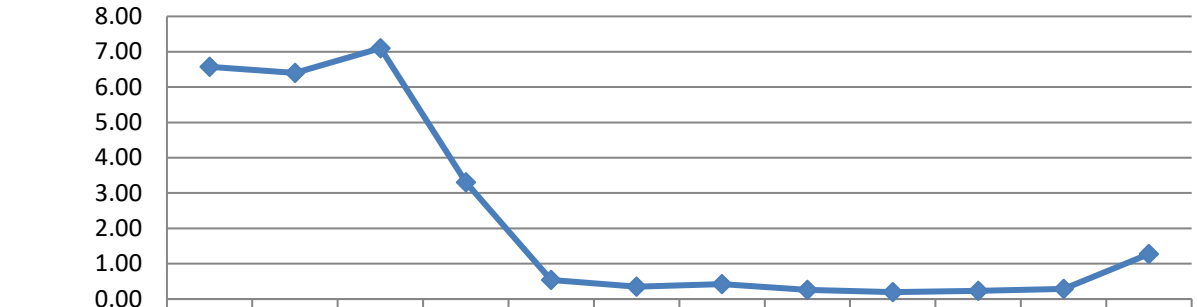
Compliance Limit and Objective for this parameter was met in 2025.

6.5.1 Concentration (mg/L)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	8.0	8.0	8.0	8.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0
ECA Objective	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0
Average	2.28	2.68	1.18	0.55	0.17	0.12	0.19	0.13	0.10	0.10	0.08	0.42

6.5.2 Loading (kg/d)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	6.57	6.41	7.10	3.31	0.54	0.35	0.43	0.26	0.20	0.23	0.28	1.27

6.6 Acute Lethality

There was one (1) sample collected in 2025 and tested for acute lethality (Rainbow Trout and Daphnia Magna). This sampling is required both provincially and federally. Results are displayed as % mortality. An adverse result is a > 50% mortality rate.

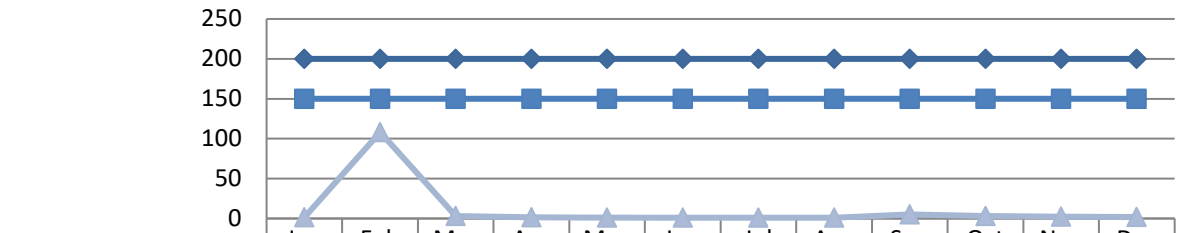
The Federal and Provincial limit for this parameter was met in 2025.

Date	Rainbow Trout	Daphnia Magna
July 14, 2025	0%	0%

6.7 E-coli (cfu/100mL)

Compliance Limit and Objective for this parameter was met in 2025.

6.7.1 Geometric Mean (cfu/100mL)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	200	200	200	200	200	200	200	200	200	200	200	200
ECA Objective	150	150	150	150	150	150	150	150	150	150	150	150
Geometric Mean	1	108	3	1	1	1	1	1	5	3	2	2

6.8 pH

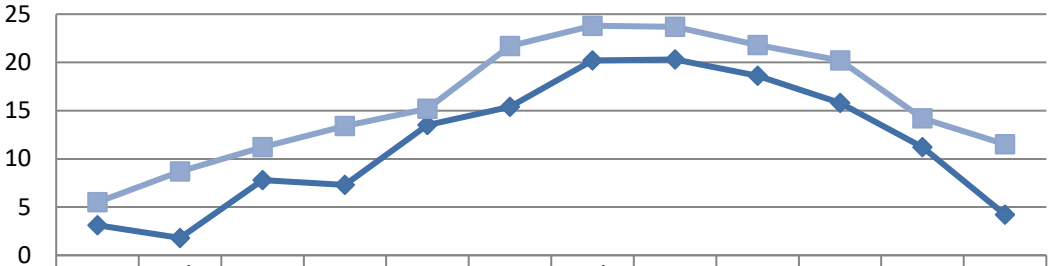
Compliance Limit range for this parameter is 6.0 – 9.5. The parameter was met in 2025. Each instance the pH is outside of that range is reported as a non-compliance.

Compliance Objective range for this parameter is 6.5-9. The parameter was met in 2025.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit Max	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
ECA Objective Max	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
pH max	7.88	7.86	7.80	7.99	8.01	7.62	8.02	7.94	7.65	7.67	7.87	7.91
pH min	7.62	7.37	7.69	7.56	7.86	7.24	7.73	7.70	7.42	7.65	7.39	7.29
ECA Objective Min	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
ECA Limit Min	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

6.9 Temperature (°C)

There are no compliance limits or objectives defined for Effluent.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Minimum	3.1	1.8	7.8	7.3	13.5	15.4	20.2	20.3	18.6	15.8	11.2	4.2
Maximum	5.5	8.7	11.2	13.4	15.2	21.7	23.8	23.7	21.8	20.2	14.2	11.5

7 Operating Issues/Problems

There were no significant operating issues/problems to report on in 2025.

7.1 Effluent Quality Non-Compliance Summary

Date	Exceedance of	Objective	Value	Corrective Action
There were no effluent non-compliances in 2025.				

7.2 Summary of Abnormal Sewage Discharge Events

Abnormal Discharge Events include Bypass', Overflows, Diversions and Spills of Sewage. Summary Details are included in Appendix B.

7.3 Spills (Other than Sewage)

Date	Location	Details	Volume (m3)	Start Date and Time	End Date and Time
There were no spills (other than sewage) to report on in 2025.					

8 Maintenance

Routine planned maintenance activities are scheduled in WMS and include:

- Inspect, adjust and calibrate process control equipment to ensure proper operation of water distribution systems, pumps, chemical feeders, and all other equipment installed at the facilities.
- Carry out a routine maintenance program including greasing and oiling as specified in the lubrication schedule.
- Perform day-to-day maintenance duties to equipment including checking machinery and electrical equipment when required.
- Maintain an equipment inventory
- Maintain accurate records of work conducted, activities, and achievements.

Planned maintenance activities are communicated to the person responsible for completing the task through the issuance of WMS work orders. Work orders are automatically generated on a schedule as determined based on manufacturer's recommendations and site specific operational and maintenance needs and are assigned directly to the appropriate operations personnel. This schedule is set up by the designated WMS Primary. Work orders are completed and electronically entered into WMS by the person responsible for completing the task.

Unplanned maintenance is conducted as required.

8.1 Normal Maintenance and Repairs

Details
– 4374983 – Electrical equipment inspection
– 4903957- Module Interface Inspection
– 4904622- 6" Diesel Pump Trailer Inspection
– 4903947- Screen travelling auger inspection
– 4903952- TPM inspection/maintenance- inspection for all pumps and exhaust fans / functions

Details
– 4903944- Blower inspections- check belts, gaskets, oil, bearings, and function – 4903968- UV inspection- check bulbs, ballasts, hoses, hydraulic pump, UV intensity, cleaning when necessary – 4903962- Grit Collector inspection- check for leaks, blockages, auger function, gear box – 4884091- Metre readings- inspect and collect readings and log. – 4332279- O&M- checks twice a week data record flows, hours of pump runs, power draws Amps – 4865646- Wet well cleaning- pump and pressure wash grease blanket in tanks all pumping stations

8.2 Major Maintenance

Details
– 4335973- SBR 1 structural inspection done by engineer, Repair and replace air diffusers and pipe, install new stainless steal ladder for access. – 4335986- East & West sludge tank structural inspection done by engineer, repair and replace air diffusers, pipe – 4335987- Electrical/instrumentation upgrades- installed new lighting in generator room, WAS room, Chemical tank room, digester building. - new transducer for Decant chamber - decant arm install SBR 3 – 4335988- HVAC repairs- inspections and Pm on units and fans, new thermostat digester building blown capacitor headwork's unit. – 4335989- Hazardous Gas Detector Repair- inspection and calibration and parts replacement. – 4335990- SCADA Maintenance- Repair truck loading Panel and SCADA programing improvements – 4335993- UV Components- New UV sensor, 3 new UV ballasts, gaskets, hydraulic oil, Hydraulic hoses, ACTI gel and rebuild of UV bank 1B – 4335994- Grit classifier- New Gear box motor – 4335995- Safety Equipment- New guard railing for roof top – 4335997- Grounds maintained- fence line maintenance, new gravel for drying beds and chemical loading – 4335998- Generator maintenance- complete service filters oil hoses, load test performed. – 4818441- Grit dumpsters- new dumpsters purchased – 433583-Building Maintenance-fabricated and installed new steps and ramps at UV building Sludge Hauling- Spring and Fall total sludge hauled 3680m3 – 4336003,4336004- SPS 3,4 – pump rebuilds and install – 4336008- VFD replacement for SPS 4 – 4336009- Electrical & instrumentation- New submersible pumps SPS 5, upgrade cellular alarm, timer installed boundary for generator alarm run. – 4428544- Generator maintenance- Service belts oil filters and load tests all pumping stations

8.3 Emergency Maintenance and Repairs

Details
No Emergency Maintenance and Repairs.

8.4 Flow Meter Calibrations and Maintenance

Location	Date of Calibration	Additional Maintenance
FIT-103 Sludge Loading Flow	April 03, 2025	None
FIT-102 Supernatant Flow	April 03, 2025	None
FIT-101 RAS/WAS Flow	April 03, 2025	None
FIT-104 Sewage Influent Flow	April 03, 2025	None
FIT-301 Plant Effluent Flow	April 03, 2025	None
FIT-701 SPS #5 Flow	April 03, 2025	None
FIT-01 SPS #3 Flow	April 09, 2025	None
FIT-01 SPS #4 Flow	April 09, 2025	None

8.5 Authorized Alterations in Collection System

Work Order	Details	Significant Drinking Water Threat (Y/N)
There were no alterations to the collection system made in 2025.		

8.6 Notice of Modifications

Date	Process	Modification	Status
There were no modifications to the collection system made in 2025.			

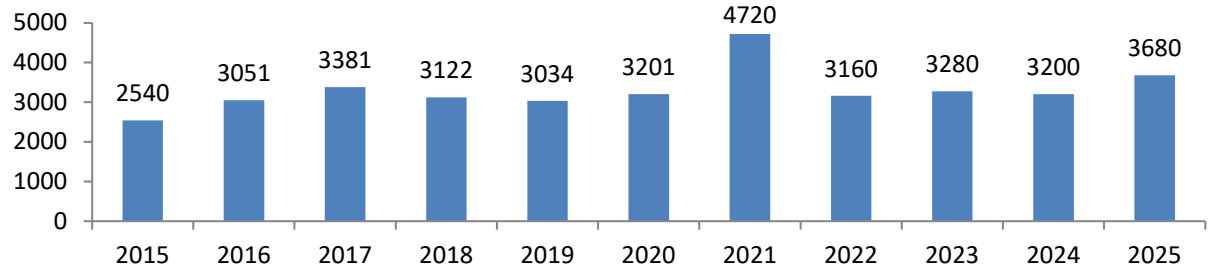
9 Sludge Generation

9.1 Sludge Disposal Summary

Date	Disposal Location	Submission ID	Volume (m3)
May 2025	Township of Edwardsburgh/Cardinal, Edwardsburgh, Concession 3, Lot 3	60125	1600
September 2025	South Dundas, Matilda, Concession 5, Lot 32, 33, 31	24883	2080

In 2025, a total of 1,120m3 of liquid bio-solids was hauled offsite by GFL and was utilized as soil conditioner. It is anticipated that approximately the same volume of sludge will be generated in 2026.

9.2 Annual Comparison (m3/year)



It is anticipated that sludge volumes will remain similar to the 2025 volumes.

9.3 Sludge Quality

Sludge quality reports are available in Appendix C

10 Summary of Complaints

Location	Date	Nature of Complaint	Actions Taken
There were no complaints to report in 2025.			

Appendix A – Performance Assessment Reports

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Performance Assessment Report

From 1/1/2025 to 12/31/2025 11:59:59 PM

03/02/2026

5674 PRESCOTT WASTEWATER TREATMENT FACILITY 110001122

	1 / 2025	2 / 2025	3 / 2025	4 / 2025	5 / 2025	6 / 2025	7 / 2025	8 / 2025	9 / 2025	10 / 2025	11 / 2025	12 / 2025	<--Total-->	<--Avg-->	<--Max-->	<-Criteria->
Flows																
Raw Flow: Total - Raw m³/d	84,144.10	62,711.19	183,325.30	174,855.54	92,299.89	80,628.23	62,134.15	54,297.88	51,825.11	66,345.76	99,896.10	89,457.66	1,101,920.90			0.00
Raw Flow: Avg - Raw m³/d	2,714.33	2,239.69	5,913.72	5,828.52	2,977.42	2,687.61	2,004.33	1,751.54	1,727.50	2,140.19	3,329.87	2,885.73		3,018.96		16,000.00
Raw Flow: Max - Raw m³/d	4,589.66	3,086.45	12,112.74	11,928.03	3,747.32	4,493.98	2,376.25	2,103.30	2,181.99	5,267.69	5,566.79	6,363.85			12,112.74	0.00
Raw Flow: Count - Raw m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Eff. Flow: Total - Final Effluent m³/d	89,234.19	67,045.42	187,353.16	179,754.17	102,271.24	88,508.07	69,498.65	61,670.97	61,936.05	74,279.63	106,294.46	93,072.91	1,180,918.92			0.00
Eff. Flow: Avg - Final Effluent m³/d	2,876.52	2,394.48	6,043.65	5,991.81	3,299.07	2,950.27	2,241.89	1,989.39	2,064.54	2,396.12	3,543.15	3,002.35		3,235.39		
Eff. Flow: Max - Final Effluent m³/d	4,834.62	3,249.26	12,603.44	11,597.17	4,247.53	4,480.97	2,676.06	2,627.44	2,984.46	5,494.82	5,773.10	6,046.75			12,603.44	0.00
Carbonaceous Biochemical Oxygen Demand: CBOD																
Eff: Avg cBOD5 - Final Effluent mg/L	3.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.04	3.50	25.00
Loading: cBOD5 - Final Effluent kg/d	10.075	7.183	18.131	17.975	9.897	8.851	6.726	5.968	6.194	7.188	10.629	9.007		9.83	18.13	
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Raw mg/L	90.00	65.00	146.00	142.00	86.00	186.00	241.00	124.00	330.00	259.00	209.00	252.00		177.50	330.00	0.00
Eff: Avg BOD5 - Final Effluent mg/L	5.75	3.00	3.25	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.24	5.75	
Loading: BOD5 - Final Effluent kg/d	16.552	7.183	19.642	17.975	9.897	8.851	6.726	5.968	6.194	7.188	10.629	9.007		10.47	19.64	
Percent Removal: BOD5 - Raw %	93.61	95.38	97.77	97.89	96.51	98.39	98.76	97.58	99.09	98.84	98.56	98.81		97.60	99.09	0.00
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw mg/L	166.00	182.00	124.00	176.00	190.00	430.00	230.00	340.00	820.00	480.00	400.00	840.00		364.83	840.00	0.00
Eff: Avg TSS - Final Effluent mg/L	12.75	5.75	5.25	3.00	3.50	4.80	3.75	4.25	3.00	3.50	3.00	3.60		4.63	12.75	25.00
Loading: TSS - Final Effluent kg/d	36.701	13.768	31.729	17.975	11.547	14.161	8.407	8.455	6.194	8.386	10.629	10.808		14.97	36.70	
Percent Removal: TSS - Raw %	92.32	96.84	95.77	98.30	98.16	98.88	98.37	98.75	99.63	99.27	99.25	99.57		97.93	99.63	0.00
Total Phosphorus: TP																
Raw: Avg TP - Raw mg/L	2.86	2.89	1.91	1.31	2.59	7.39	4.72	4.53	8.47	8.93	4.05	6.85		4.71	8.93	0.00
Eff: Avg TP - Final Effluent mg/L	0.24	0.11	0.15	0.05	0.08	0.10	0.14	0.28	0.19	0.19	0.11	0.08		0.14	0.28	1.00
Loading: TP - Final Effluent kg/d	0.684	0.263	0.876	0.324	0.264	0.295	0.303	0.562	0.387	0.461	0.399	0.240		0.45	0.88	
Percent Removal: TP - Raw %	91.70	96.19	92.41	95.88	96.91	98.65	97.14	93.76	97.79	97.84	97.22	98.83		96.19	98.83	0.00
Nitrogen Series																
Raw: Avg TKN - Raw mg/L	19.60	19.60	10.90	10.70	21.80	44.50	51.20	28.80	68.60	55.90	31.30	33.60		33.04	68.60	0.00
Eff: Avg TAN - Final Effluent mg/L	2.28	2.68	1.18	0.55	0.17	0.12	0.19	0.13	0.10	0.10	0.08	0.42		0.65	2.68	8.00
Loading: TAN - Final Effluent kg/d	6.570	6.405	7.101	3.307	0.544	0.348	0.426	0.259	0.196	0.234	0.283	1.273		2.10	7.10	
Eff: Avg NO3-N - Final Effluent mg/L	0.51	0.56	0.66	0.72	0.91	1.08	0.80	1.42	1.08	0.88	0.66	0.65		0.83	1.42	0.00
Eff: # of samples of NO3-N - Final Effluent	4.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	4.00	4.00	4.00	5.00	51.00			0.00
Disinfection																
Eff: GMD E. Coli - Final Effluent cfu/100mL	1.32	108.15	3.03	1.43	1.19	1.00	1.00	1.00	5.08	3.08	2.11	1.84				200.00

Appendix B – Details of Abnormal Sewage Discharge Events

Facility Bypass

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
There was no facility bypass to report in 2025.								

Facility Overflow

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
There was no facility overflow to report in 2025.								

Collection Overflow

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
06/22/25	SPS # 3 (Coast Guard) Bypass Weir BW-1	Collection system overflow due to heavy rains however no sign of bypass.	85	01:55	02:45	50 min	St. Lawrence River	Stabilized chlorine pucks
06/24/25	SPS # 3 (Coast Guard) Bypass Weir BW-1	Collection system overflow due to heavy rains.	6.2	15:30	16:10	40 min	St. Lawrence River	Stabilized chlorine pucks

Spills of Sewage

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
There were no spills of sewage to report in 2025.								

Collection System Monitoring Data

Event Date	Event Location	Volume (m3)	Parameter	mg/L	Source Loading	Any Adverse Impacts & Corrective Actions
June 22, 2025	SPS # 3 (Coast Guard) Bypass Weir BW-1	85	Total Suspended Solids			Sample was not taken due to when arrived on site there was no sign of bypass.
			Total Phosphorus			
			BOD5			
			Total Kjeldahl Nitrogen			
			E.Coli			
			pH @ 25°C			

Event Date	Event Location	Volume (m3)	Parameter	mg/L	Source Loading	Any Adverse Impacts & Corrective Actions
June 24, 2025	SPS # 3 (Coast Guard) Bypass Weir BW-1	6.2	Total Suspended Solids	250	1.55 kg	None.
			Total Phosphorus	0.96	0.006 kg	
			BOD5	51	0.316 kg	
			Total Kjeldahl Nitrogen	9.2	0.057 kg	
			E.Coli	810000		
			pH @ 25°C	7.66		

Appendix C - Biosolids Quality Report

Month	Total Solids (mg/L)	Volatile Solids (mg/L)	Total Phosphorus (mg/L)	Total Ammonia Nitrogen (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Ammonia + Nitrate (mg/L)	Potassium (mg/L)
Parameter Short Name	TS	VS	TP	NH3p_NH4p_N	NO3-N	NO2-N	TKN	Calculation in Report	K
T/S	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	- no T/S	Lab Published Month Mean
Jan	9,240.00	5,675.00	326.50	2.00	41.75	0.35	552.00	21.88	41.40
Feb	21,200.00	14,140.00	685.50	32.50	21.75	0.40	1,733.00	27.13	73.55
Mar	14,300.00	10,140.00	402.00	7.00	18.15	0.10	1,092.50	12.58	68.05
Apr	15,600.00	12,350.00	477.00	39.50	1.20	0.25	1,226.00	20.35	45.20
May	27,000.00	17,150.00	757.00	83.50	0.55	0.40	1,300.00	42.03	54.80
Jun	23,450.00	14,550.00	1,053.00	21.50	0.90	0.25	1,495.00	11.20	59.95
Jul	24,500.00	13,200.00	985.50	23.00	23.40	0.40	1,304.00	23.20	63.00
Aug	17,400.00	10,100.00	512.00	5.00	1.00	0.40	1,020.00	3.00	58.50
Sep	24,766.67	14,333.33	851.33	39.00	2.17	0.57	1,141.67	20.58	75.30
Oct	26,800.00	16,100.00	1,110.00	30.00	0.40	0.90	1,320.00	15.20	72.00
Nov	21,300.00	12,545.00	797.00	1.50	55.50	0.40	942.50	28.50	60.00
Dec	12,900.00	10,780.00	453.00	6.00	6.70	1.10	1,050.00	6.35	43.75
Average	19,871.39	12,588.61	700.82	24.21	14.46	0.46	1,181.39	19.33	59.63
Total	238,456.67	151,063.33	8,409.83	290.50	173.47	5.52	14,176.67	231.98	715.50

Biosolids Metals and Criteria

Month	Arsenic (mg/L)	Cadmium (mg/L)	Cobalt (mg/L)	Chromium (mg/L)	Copper (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Lead (mg/L)	Selenium (mg/L)	Zinc (mg/L)
Parameter Short Name	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
T/S	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean
Jan	0.10	0.03	0.03	0.23	2.76	0.00	0.18	0.19	0.15	0.10	3.58
Feb	0.15	0.03	0.04	0.56	7.84	0.00	0.24	0.48	0.45	0.10	9.48
Mar	0.10	0.03	0.04	0.40	5.47	0.00	0.19	0.34	0.35	0.10	6.58
Apr	0.10	0.03	0.05	0.43	5.70	0.00	0.18	0.35	0.35	0.10	6.86
May	0.20	0.03	0.04	0.62	8.37	0.01	0.22	0.53	0.55	0.15	10.08
Jun	0.20	0.03	0.06	0.73	9.15	0.01	0.23	0.59	0.55	0.15	11.00
Jul	0.20	0.03	0.07	0.79	9.78	0.01	0.26	0.64	0.65	0.10	11.50
Aug	0.20	0.03	0.04	0.53	6.65	0.01	0.20	0.43	0.40	0.10	8.85
Sep	0.23	0.03	0.07	0.85	10.91	0.01	0.25	0.66	0.80	0.20	13.32
Oct	0.20	0.03	0.08	1.00	12.90	0.01	0.28	0.72	0.70	0.10	15.00
Nov	0.15	0.03	0.04	0.57	7.46	0.01	0.20	0.46	0.45	0.15	9.31
Dec	0.10	0.03	0.05	0.35	4.24	0.01	0.18	0.28	0.25	0.10	5.31
Average	0.16	0.03	0.05	0.59	7.60	0.01	0.22	0.47	0.47	0.12	9.24

Max. Permissible Metal Concentrations (mg/kg of Solids)	170.00	34.00	340.00	2,800.00	1,700.00	11.00	94.00	420.00	1,100.00	34.00	4,200.00
Metal Concentrations in Sludge (mg/kg)	8.11	1.51	2.52	29.54	382.52	0.27	10.86	23.67	23.69	6.08	464.89

Appendix D - ECA Annual Report Requirements

Facility ECA # 6996-9ZYNWH Section 10(6)	Section in Report
a) Summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in condition 7, including an overview of the success and adequacy of the Works	Section 6 – Effluent Quality
b) Description of any operating problems encountered and corrective actions taken	Section 8 – Operating Problems/Issues
c) Summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works	Section 9 – Maintenance
d) Summary of any effluent quality assurance or control measures undertaken in the reporting period	Section 6 – Effluent Quality
e) Summary of the calibration and maintenance carried out on all effluent monitoring equipment	Section 9.3 – Flow Meter Calibrations
f) Description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6	Section 8 – Operating Problems/Issues
g) Tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations where the sludge was disposed	Section 10 – Sludge Generation
h) Summary of any complaints received during the reporting period and any steps taken to address the complaints	Section 11 – Summary of Complaints
i) Summary of all By-pass, spill or abnormal discharge events	Appendix D, Section 8 – Operating Problems/Issues
j) Copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification	Section 9 – Maintenance
k) Report summarizing all modifications completed as a result of Schedule B, Section 3	Section 9 - Maintenance
l) Any other information the Water Supervisor requires from time to time	N/A

Collection ECA # 161-W601 Schedule E	
4.6.3 If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations.	Operating Issues and Problems
4.6.4 Includes a summary of any operating problems encountered and corrective actions taken.	Operating Issues and Problems
4.6.5 Includes a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.	Maintenance
4.6.6 Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.	Summary of Complaints
4.6.7 Includes a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.	Maintenance
4.6.8 Includes a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including: a) Dates;	Operating Issues and Problems Appendix B

Collection ECA # 161-W601 Schedule E	
b) Volumes and durations; c) If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E.coli; d) Disinfection, if any; and e) Any adverse impact(s) and any corrective actions, if applicable.	
4.6.9 Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable: a) A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for which the report is submitted. b) Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines. c) An assessment of the effectiveness of each action taken. d) An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives. e) Public reporting approach including proactive efforts.	Maintenance Operating Issues and Problems