Ingleside Wastewater System

Waterworks # 120000140

Annual Report

Prepared For: Township of South Stormont

Reporting Period of January 1st – December 31st 2024

Issued: March 20th, 2025

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	8524-5JFP5F	February 2003	N/A
ECA for Municipal Sewage Collection System	186-W601	February 2, 2023	1.0

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1 Revision History

Date	Rev#	Revisions	Revised By
March 20, 2025	0	Annual Report Issued	Selena Shane, PCT

2 Operations and Compliance Reliability Indices

Compliance Event	# of Events
Ministry of Environment Inspections	No MECP inspections in 2024.
Ministry of Labour Inspections	No MOL inspections in 2024.
Non-Compliance	There was 1 non-compliances reported in 2024.
Community Complaints	There was 4 community complaints in 2024.
Spills	No spills reported in 2024.
Overflows	No overflow events in 2024.
Bypass	No bypass events in 2024.

3 Process Description

The Ingleside wastewater treatment system operates as a gravity-fed sanitary sewage collection network. Wastewater is conveyed through this system to a pumping station, which then transfers the flow to the wastewater treatment facility.

The wastewater treatment plant is classified as a Class III wastewater treatment system, owned by the Township of South Stormont and operated by Ontario Clean Water Agency. The Ingleside sanitary sewage collection system, classified as a Class II system, is owned and operated by the Township of South Stormont. Wastewater is pumped to the treatment plant via the plant's pumping station, which is equipped with three submersible pumps.

The Ingleside treatment facility utilizes an extended aeration process to treat incoming wastewater. Key treatment stages include:

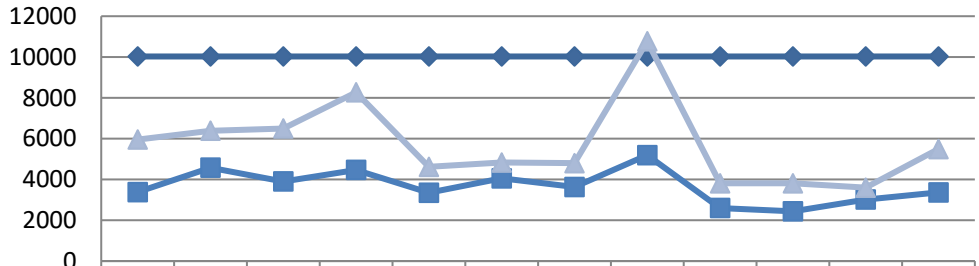
- **Screening:** Removal of large debris from raw influent.
- **Grit Removal:** Separation of heavy inorganic materials such as sand and gravel.
- **Aeration**: Biological treatment to break down organic matter.
- **Chemically Assisted Flocculation and Sedimentation**: Addition of coagulants to enhance the removal of suspended solids and phosphorus.

- **Secondary Clarification & Sludge Handling**: Two secondary clarifiers separate treated effluent from solids. A scum chamber located between the two clarifiers houses a submersible scum pump for recirculating and mixing scum, with periodic transfers to the aerobic digester. Additionally, three centrifugal waste activated sludge (WAS) pumps draw sludge from the clarifiers' sludge collection chambers, discharging it either back to the aeration tanks for process control or to the aerobic digester for further treatment.
- **Chlorination**: Disinfection of treated effluent to eliminate harmful pathogens.
- **Effluent Discharge**: Treated wastewater is discharged into the river in compliance with regulatory standards. This system ensures effective wastewater management and environmental protection for the Township of South Stormont.

4 Treatment Flows

The hydraulic flows reaching the treatment facility in 2024 averaged 3,842 m3/day, which represents 95% of the 4,045 m3/day design.

4.1 Raw Flow (m3/d)



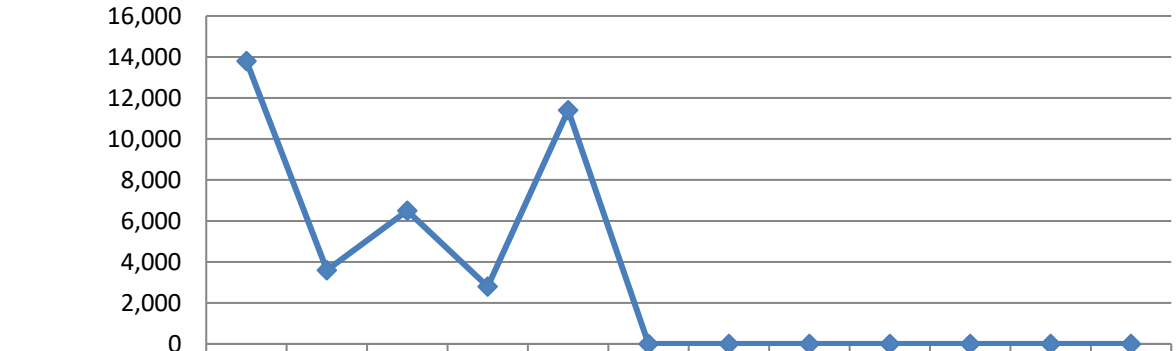
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rated Flow	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027	10027
Average Daily Flow	3,379	4,576	3,903	4,466	3,348	4,055	3,631	5,192	2,601	2,439	3,016	3,364
Maximum Daily Flow	5,956	6,389	6,498	8,269	4,620	4,829	4,801	10,770	3,811	3,811	3,600	5,491

4.2 Effluent Flow

A total of 1,528,217 m^3 of effluent was discharged from Ingleside's WWTP in 2024.

4.3 Imported Waste/Sewage

The Septage was accepted until June 2024.



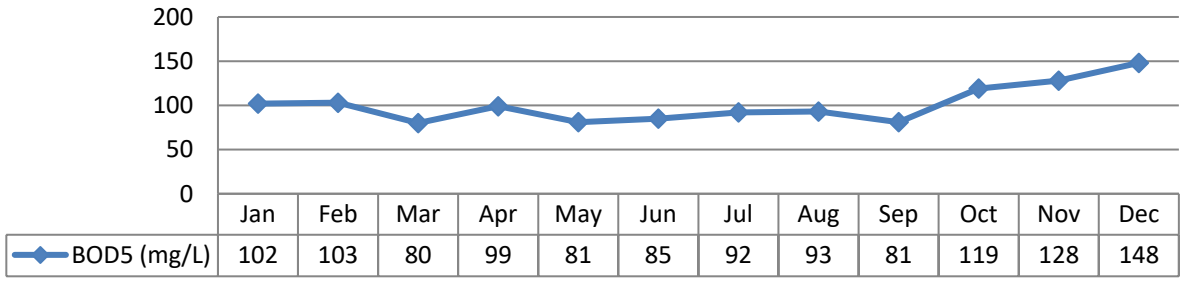
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Septage m3	13,800	3,600	6,500	2,800	11,400	0	0	0	0	0	0	0

5 Raw Sewage Quality

Current year minimum, maximum and averages are available in Appendix A – Performance Assessment Report.

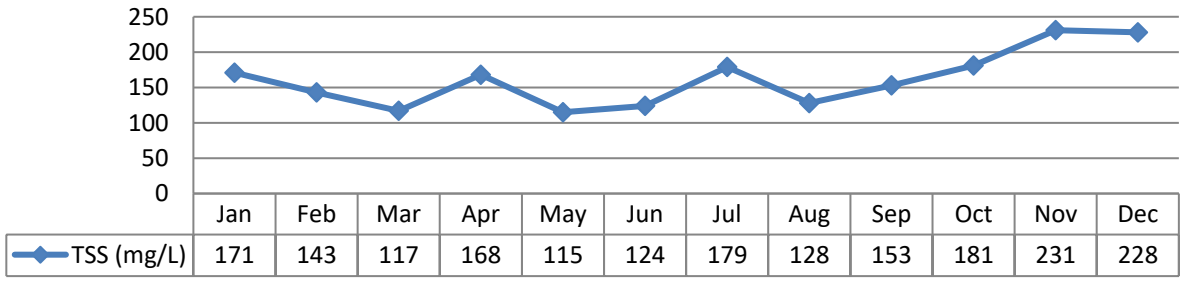
5.1 Influent Trending

5.1.1 BOD5 (mg/L)



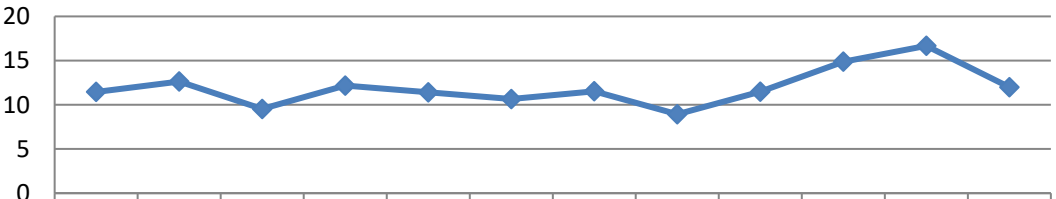
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BOD5 (mg/L)	102	103	80	99	81	85	92	93	81	119	128	148

5.1.2 Total Suspended Solids (mg/L)



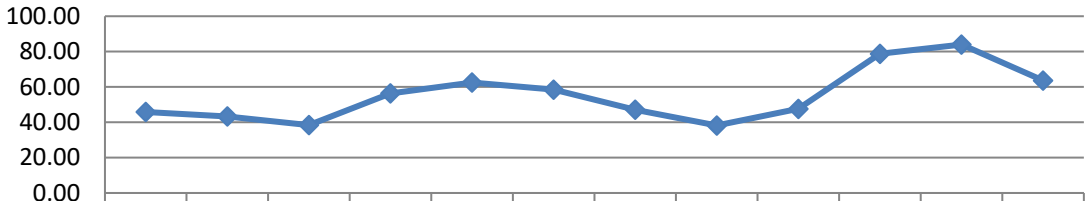
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TSS (mg/L)	171	143	117	168	115	124	179	128	153	181	231	228

5.1.3 *Total Phosphorus (mg/L)*



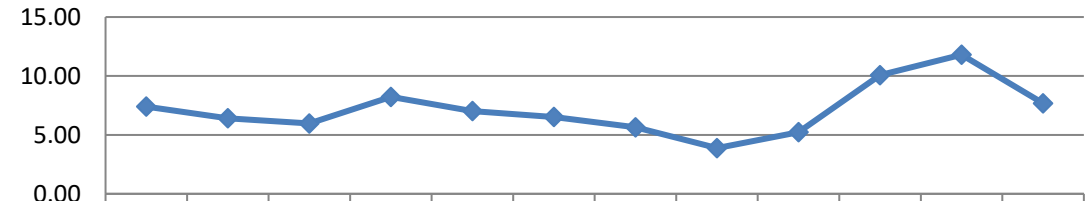
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TP (mg/L)	11.46	12.63	9.53	12.17	11.41	10.65	11.53	8.93	11.48	14.88	16.67	11.99

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



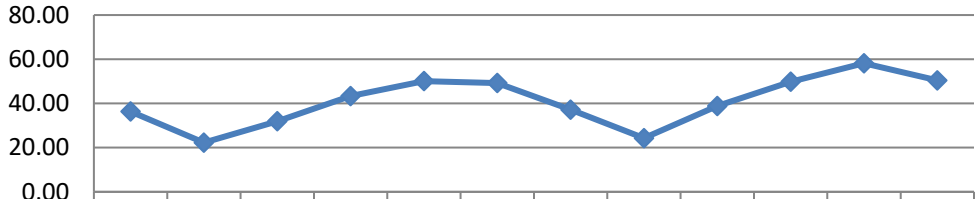
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TKN (mg/L)	45.84	43.29	38.43	56.36	62.49	58.48	47.12	38.20	47.60	78.73	83.97	63.64

5.1.5 *Dissolved Reactive Phosphorus (DRP) (mg/L)*



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
DRP (mg/L)	7.40	6.41	5.97	8.22	7.02	6.52	5.64	3.88	5.23	10.07	11.80	7.68

5.1.6 *Ammonia (mg/L)*



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ammonia (mg/L)	36.34	22.26	31.93	43.33	50.10	49.23	37.16	24.28	38.85	49.80	58.18	50.44

6 Effluent Quality

Effluent results from the WWTP for 2024 are tabulated below. Additional data can be found in the Performance Assessment Reports attached in Appendix A.

6.1 6.1 Effluent Quality Assurance and Control Measures Taken

This system is part of the Township of South Stormont. 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 Ottawa for analysis, with the exception of pH and temperature. Caduceon Ottawa 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, OCWA 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.

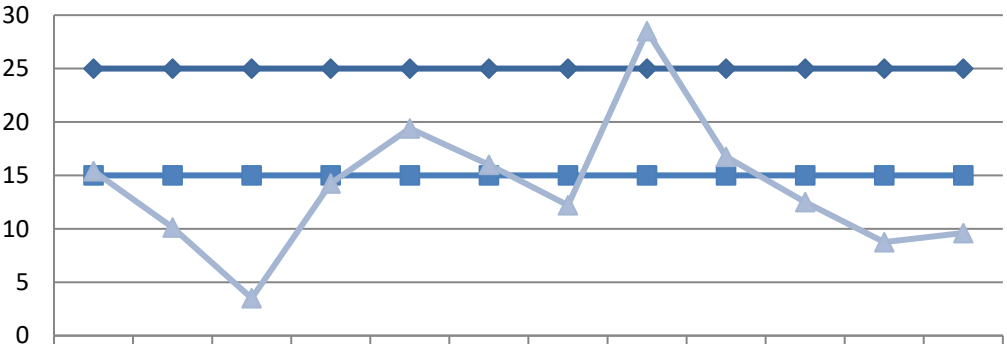
OCWA uses a data management system Process Data Management (PDM). This database program consolidates all operational data from a variety of sources including field data, online instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.

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)

6.2.1 Concentration (mg/L)

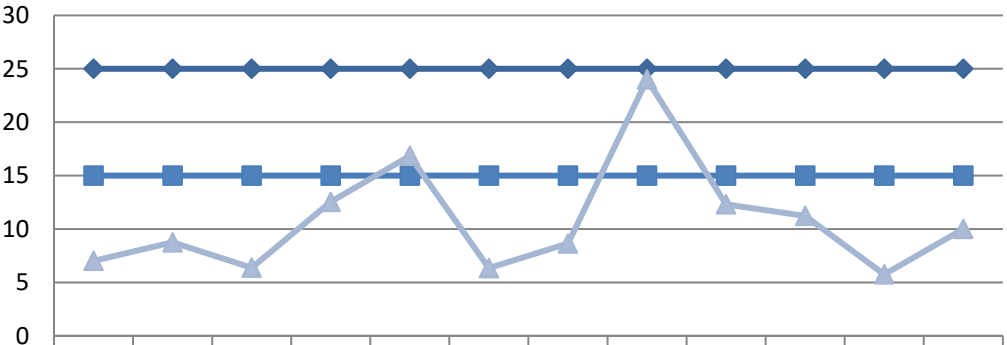


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	25	25	25	25	25	25	25	25	25	25	25	25
ECA Objective	15	15	15	15	15	15	15	15	15	15	15	15
Average	15.40	10.13	3.50	14.25	19.40	16.00	12.20	28.50	16.75	12.50	8.75	9.60

6.3 Total Suspended Solids (mg/L)

Compliance Limit and Objective for this parameter was met in 2024.

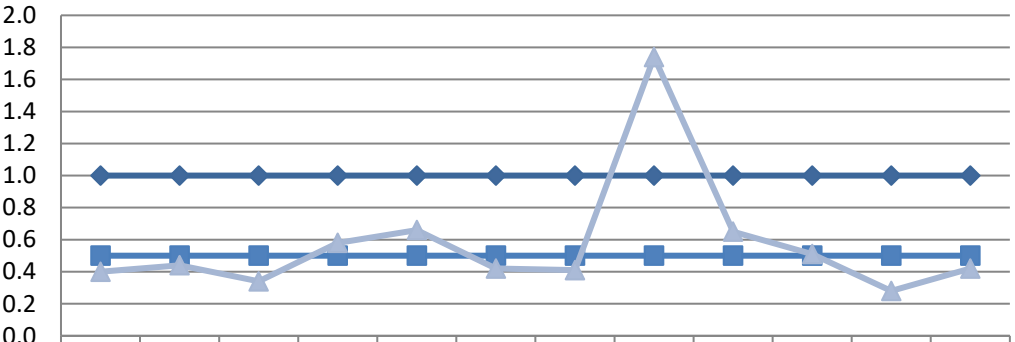
6.3.1 Concentration (mg/L)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	25	25	25	25	25	25	25	25	25	25	25	25
ECA Objective	15	15	15	15	15	15	15	15	15	15	15	15
Average	7.02	8.75	6.38	12.54	16.85	6.34	8.65	24.00	12.31	11.23	5.75	10.00

6.4 Total Phosphorus (mg/L)

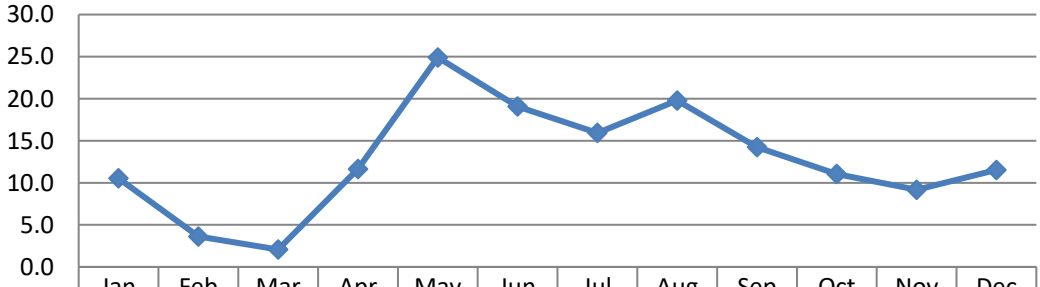
6.4.1 Concentration (mg/L)



	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	0.40	0.44	0.34	0.58	0.66	0.42	0.41	1.74	0.65	0.51	0.28	0.42

6.5 Ammonia (mg/L)

There is no Compliance Limit or Objective for this parameter.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ammonia	10.5	3.6	2.1	11.6	24.9	19.1	15.9	19.8	14.2	11.0	9.2	11.5

6.6 Acute Lethality

There was one sample collected in 2024 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.

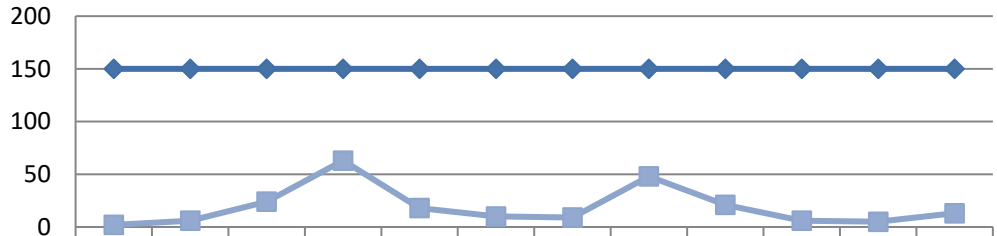
Compliance Limit for this parameter was met in 2024.

Date	Rainbow Trout	Daphnia Magna
December 12, 2024	0%	0%

6.7 E-coli

There is no Compliance Limit for this parameter and the Objective for this parameter was met in 2024.

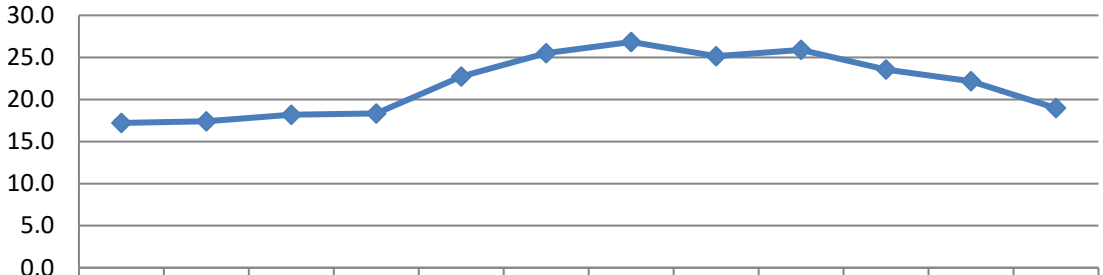
6.7.1 Geometric Mean (cfu/100mL)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Objective	150	150	150	150	150	150	150	150	150	150	150	150
Geometric Mean	2	6	24	63	18	10	9	48	21	6	5	13

6.8 Temperature

There are no compliance limits or objectives defined for Effluent.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	17.2	17.4	18.2	18.3	22.7	25.5	26.8	25.2	25.9	23.6	22.2	19.0

7 Operating Issues

Upon the review of the process it was determined that the influent parameters were elevated during the month of August. Operations determined the source of the excess influent and the flow was stopped. The excess influent came from an industrial system user who uses a lagoon to provide a level of treatment prior to the effluent discharging into the sanitary system. Arrangements were made with the industrial user to notify prior to discharges to ensure proper process adjustments are made at the treatment plant. Discharge flows will also be closely monitored to ensure they align with the sewage plants treatment capacity.

7.1 Effluent Quality Non-Compliance Summary

Date	Exceedance of	Limit	Value	Corrective Action
August 2024	Phosphorus	1	1.74	Influent flow with excessive phosphorus stopped

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
No spills to report in 2024.					

8 Maintenance

Unplanned maintenance is conducted as required.

8.1 Normal Maintenance and Repairs

Maintenance/Repair
-Blower motor(April 17/24) -Chlorine tank liner(Nov 20/24) - Chlorine pvc line in clarifier(October 2/24) - Fixed scum arm basin in clarifier(September 19/24) - Secondary digester rail hook up for pump to transfer to Long term storage (October 30/24) - New VFD on pump # 3 for Ingleside sewage pump station(January 3/24) - New Alarm panel at Ingleside pump station(January 3/24) - New batteries installed on generator at Ingleside pump station(January 23/24) - New VFD on ras pump #1(February 5/24) - New check valve and PVC pipe on sump pump(February 28/24) - New Flow meter at Lactalis (November 5/24)

8.2 Emergency Maintenance and Repairs

Maintenance/Repair	Details
Sewer Lateral	Repaired @ 21 Hickory St
Sewer Lateral	Replaced @26 Santa Cruz Dr

8.3 Flow Meter Calibrations and Maintenance

Location	Date of Calibration	Additional Maintenance
FIT-100 West RAS Flow Meter	September 17, 2024	None.
FIT-200 East RAS Flow Meter	September 17, 2024	None.

8.4 Authorized Alterations in Collection System

Alteration	Details	Significant Drinking Water Threat (Y/N)
No alterations to the collection system in 2024.		

8.5 Notice of Modifications

Date	Process	Modification	Status
No modifications to the collection system in 2024.			

9 Sludge Generation

9.1 Sludge Disposal Summary

Date	Disposal Location	Approval Number	Total Volume (m3)
October 25, 2024	NASM 21558	Submission ID 61025	240
October 28, 2024	NASM 21558	Submission ID 61025	520
October 29, 2024	NASM 21558	Submission ID 61025	560
October 31, 2024	NASM 21558	Submission ID 61025	560
November 1, 2024	NASM 21558	Submission ID 61025	600
November 4, 2024	NASM 21558	Submission ID 61025	120

In 2024, a total of 2600 m^3 of liquid sludge was removed from Ingleside's WWTP and was utilized as soil conditioner. The sludge was removed from the WWTP by GFL in October and November. It is anticipated that approximately the same volume of sludge will be generated in 2025.

10 Summary of Complaints

Location	Date	Nature of Complaint	Actions Taken
Santa Cruz Dr	11/27/24	Sewer back up	Inspected by plumber.
Hickory St	11/28/23	Sewer backup	Inspected by Township.
Santa Cruz Dr	08/20/24	Sewer backup	Inspected by Township.
Wildwood Dr	05/28/24	Odour	Inspected by Township.

Appendix A

Appendix A – Performance Assessment Report

Municipality: TOWNSHIP OF SOUTH STORMONT **Year:** 2024

INGLESIDE WWTP **Receiving Water:** Lake St. Lawrence

DESIGN CAP: 4,045 m^3/d ave. - 10,027 m^3/d peak

Description: SECONDARY TREATMENT / EXTENDED AER/ AEROBIC DIGESTION

MONTH	FLOWS				BIOCHEMICAL O_2 DEMAND			SUSPENDED SOLIDS			PHOSPHORUS			AMMONIA			DRP		TKN	
	INFLUENT			EFFLUENT	AVG.	AVG.	PERCENT	AVG.	AVG.	PERCENT	AVG.	AVG.	PERCENT	AVG.	AVG.	PERCENT	AVG.	AVG.	AVG.	AVG.
	TOTAL	AVG.	MAX	TOTAL	INF.	EFF.	REMOVAL	INF.	EFF.	REMOVAL	INF.	EFF.	REMOVAL	INF.	EFF.	REMOVAL	INF.	EFF.	INF.	EFF.
	m^3	m^3	m^3	m^3	mg/l	mg/l	%	mg/l	mg/l	%	mg/l	mg/l	%	mg/l	mg/l	%	mg/l	mg/l	mg/l	mg/l
JAN	121,300	3,913	5,956	134,995	102	15.40	85%	171	7.02	96%	11.46	0.40	97%	36.34	10.53	71%	7.40	0.23	45.84	12.92
FEB	125,489	4,327	6,389	137,324	103	10.13	90%	143	8.75	94%	12.63	0.44	97%	22.26	3.62	84%	6.41	0.25	43.29	7.08
MAR	137,133	4,424	6,498	147,619	80	3.50	96%	117	6.38	95%	9.53	0.34	96%	31.93	2.07	94%	5.97	0.14	38.43	3.40
APR	155,937	5,198	8,269	167,268	99	14.25	86%	168	12.54	93%	12.17	0.58	95%	43.33	11.64	73%	8.22	0.55	56.36	16.08
MAY	121,991	3,935	4,620	130,091	81	19.40	76%	115	16.85	85%	11.41	0.66	94%	50.10	24.90	50%	7.02	0.23	62.49	28.32
JUN	109,307	3,644	4,829	120,517	85	16.00	81%	124	6.34	95%	10.65	0.42	96%	49.23	19.07	61%	6.52	0.13	58.48	22.23
JUL	103,363	3,334	4,801	118,451	92	12.20	87%	179	8.65	95%	11.53	0.41	96%	37.16	15.93	57%	5.64	0.15	47.12	16.94
AUG	166,878	5,383	10,770	182,339	93	28.50	69%	128	24.00	81%	8.93	1.74	81%	24.28	19.78	19%	3.88	0.23	38.20	21.63
SEP	92,886	3,096	3,811	102,354	81	16.75	79%	153	12.31	92%	11.48	0.65	94%	38.85	14.24	63%	5.23	0.29	47.60	14.55
OCT	79,335	2,559	3,195	86,614	119	12.50	89%	181	11.23	94%	14.88	0.51	97%	49.80	11.04	78%	10.07	0.09	78.73	23.58
NOV	79,569	2,652	3,600	82,375	128	8.75	93%	231	5.75	98%	16.67	0.28	98%	58.18	9.17	84%	11.80	0.13	83.97	10.30
DEC	112,973	3,644	5,491	118,270	148	9.60	93%	228	10.00	96%	11.99	0.42	97%	50.44	11.53	77%	7.68	0.09	63.64	12.34
TOTAL	1,406,161			1,528,217																
AVERAGE		3,842		4,175	101	13.91	85%	161	10.82	93%	11.94	0.57	95%	40.99	12.79	68%	7.15	0.21	55.35	15.78
MAXIMUM			10,770																	
CRITERIA						25			25			1.00			15					
ANNUAL LOADING Kg/d						53.46			41.57			2.19								
CRITERIA						101			101			4								

Municipality: TOWNSHIP OF SOUTH STORMONT **Year:** 2024

INGLESIDE WWTP **Receiving Water:** Lake St. Lawrence

DESIGN CAP: 4,045 m^3/d ave. - 10,027 m^3/d peak

Description: SECONDARY TREATMENT / EXTENDED AER/ AEROBIC DIGESTION

MONTH	NO_2		NO_3		ALKALINITY		CHLORIDES		COND.		pH		TC	E.Coli	FS	Temp.	Total Cl_2
	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	GEOMEAN	GEOMEAN	GEOMEAN	AVG	AVG.
	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.	INF.	EFF.	EFF.	EFF.	EFF.	EFF.	EFF.
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	umho/cm		pH units		CFU/100mL	CFU/100mL	CFU/100mL	°C	mg/l
JAN	1.53	1.10	5.12	21.70	723	445	346	395	2520	2627	8.15	7.09	1412	2	4	17.2	0.00
FEB	1.20	0.40	8.07	28.78	703	410	496	500	2758	2572	8.17	7.03	6147	6	35	17.4	0.00
MAR	0.96	0.35	4.95	22.58	736	379	341	326	2448	2299	8.12	7.04	3790	24	37	18.2	0.00
APR	0.54	0.27	1.12	12.91	921	562	269	291	2738	4802	8.11	7.13	6620	63	241	18.3	0.00
MAY	0.33	0.44	0.33	5.82	843	562	337	391	2616	2841		7.50	33957	18	141	22.7	0.00
JUN	2.71	0.25	1.95	27.28	864	582	393	395	2800	2818	8.19	7.58	32901	10	38	25.5	0.00
JUL	1.45	0.86	0.90	30.36	765	407	302	365	2740	2514	7.73	7.40	4443	9	40	26.8	0.02
AUG	1.86	1.00	5.09	9.16	769	536	239	263	2255	2303	7.26	7.40	18516	48	41	25.2	0.00
SEP	2.66	0.81	4.93	18.55	909	514	333	349	2881	2693	7.65	7.32	29610	21	35	25.9	0.00
OCT	3.94	29.15	1.79	0.28	997	431	401	448	3223	3080	7.95	7.38	1218	6	13	23.6	0.00
NOV	0.72	0.37	1.20	42.23	957	438	587	499	3240	3212	7.85		6701	5	6	22.2	0.00
DEC	0.20	16.00	0.20	8.46	827	419	438	369	2820	2552	7.97	7.59	284	13	22	19.0	0.00
TOTAL																	
AVERAGE	1.51	4.25	2.97	19.01	834	474	373	383	2753	2859	7.92	7.31	12133	19	54	21.8	0.00
MAXIMUM																	
CRITERIA														200			
ANNUAL LOADING Kg/d																	
CRITERIA																	

Appendix B

Appendix B - Details of Abnormal Sewage Discharge Events

Event Details Summary

Facility Bypass

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
No facility bypass' to report in 2024.								

Facility Overflow

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
No facility overflows to report in 2024.								

Collection Overflow

There are no authorized overflow locations in this system.

Spills of Sewage

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
No spills of sewage to report in 2024.								

Appendix C

Appendix D - ECA Annual Report Requirements

Facility ECA # 2147-734L2K Section 12(6)	**Section in Report**
a) a summary and interpretation of all monitoring data and comparison to the effluent limits outlined in Condition 7, including an overview of success and adequacy	Treatment Flows, Raw Sewage and Effluent Quality
b) a description of any operating problems encountered and corrective actions taken	Operating Issues and Problems
c) summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works	Maintenance
d) summary of any effluent quality assurance or control measures undertaken in the reporting period	Effluent Quality
e) summary of the calibration and maintenance carried out on all effluent monitoring equipment	Maintenance
f) description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6	Effluent Quality
g) tabulation of the quantity of septage added to the Works for co-treatment during the reporting period	Treatment Flows
h) summary of chemical characterization data for samples of septage collected in accordance with Table 4 in Condition 11 during the reporting period	Raw Sewage Quality
i) 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 to where the sludge was disposed	Sludge Generation
j) tabulation of the quantity of groundwater pumped from the WWTP Building foundation drainage system to the storm sewer system	Groundwater Pumping Volumes
k) summary of any complaints received during the reporting period and any steps taken to address the complaints	Summary of Complaints
l) summary of all By-pass, overflow, spill or abnormal discharge events	Operating Issues and Problems
m) any other information the District Manager requires from time to time	N/A

Collection ECA # 165-W601 Schedule E	**Section in Report**
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

Collection ECA # 165-W601 **Schedule E**	**Section in Report**
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; 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.	Operating Issues and Problems Appendix D
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