

WATER & WASTEWATER SERVICES

OPERATIONAL REPORTS

WASTEWATER
TREATMENT AND
COLLECTION
PERFORMANCE
REPORTS



The County
PRINCE EDWARD COUNTY • ONTARIO

OPERATIONAL REPORTS

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OPERATIONAL REPORTS

PICTON WWTP

**ANNUAL PERFORMANCE REPORT
(ECA NO. 5464-AKATW7)**



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2025 Annual Wastewater Performance Report

The Corporation of the County of Prince Edward: Picton Wastewater Treatment Facility
MECP Identifier No. 120000667
Environmental Compliance Approval: ECA No. 5464-AKATW7

Picton sanitary collection system services the town of Picton through a network of underground collection infrastructure and 7 pump stations located on Loyalist Parkway, Bridge Street, Hill Street, Main Street (Decommissioned on October 28, 2025), New Main Street (Commissioned and in service from October 27, 2025), Jasper Avenue, Paul Street, and Lalor Street. The Lalor Street Pump Station receives flows from the entire collection system and channels it through the treatment process via two forcemains up Nicholas Street to the Picton Wastewater Treatment Facility. The Picton Wastewater Treatment Facility is a Class 2 extended aeration treatment facility with tertiary treatment and ultraviolet disinfection. Disinfected final effluent is discharged via a 500mm pipe to Marsh Creek, and finally Picton Bay, Bay of Quinte. Standby generators are in place in the event of a utility power failure.

Picton Environmental Compliance Approval: ECA No. 5464-AKATW7, Condition 11-4

The annual reporting requirements as per Environmental Compliance Approval (ECA) number 5464-AKATW7 have been listed below. In accordance with Condition 11-4, *The Owner shall prepare performance reports on an annual basis and submit to the Water Supervisor by March 31 of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information:*

- a. *a summary and interpretation of all monitoring data and a comparison to the compliance limits outlined in Condition 7, including an overview of the success and adequacy of the Works;*
- b. *a description of any operating problems encountered and corrective actions taken;*
- c. *a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;*
- d. *a summary of any effluent quality assurance or control measures undertaken in the reporting period;*
- e. *a summary of the calibration and maintenance carried out on all effluent monitoring equipment;*
- f. *a description of efforts made and results achieved in meeting the design objectives of Condition 6;*
- g. *a 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;*
- h. *a summary of any complaints received during the reporting period and any steps taken to address the complaints;*
- i. *a summary of all By-pass, spill or abnormal discharge events;*
- j. *a 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*
- k. *a report summarizing all modifications completed as a result of Schedule B, Section 3;*
- l. *any other information the Water Supervisor requires from time to time.*

Monitoring and Analytical Data

Condition 11.4(a) and (f) - (ECA No. 5464-AKATW7)

Summary of all monitoring data and analytical data collected relative to the works during the reporting period:

Table 1a: Effluent Quality: Compliance Parameters

Parameters	Carbonaceous Biochemical Oxygen Demand	Total Suspended Solids	Total Phosphorus	
	Monthly Mean Concentration			Waste Loading
ECA Limit	10 mg/L	10 mg/L	0.27 mg/L	1.63 kg/d
ECA Objective	5 mg/L	5 mg/L	0.15 mg/L	n/a
Month	mg/L	mg/L	mg/L	kg/d
January	< 4.00	3.25	0.08	0.19
February	4.50	2.25	0.16	0.28
March	< 4.00	6.17	0.12	0.57
April	< 4.00	2.80	0.09	0.36
May	< 4.00	5.25	0.10	0.47
June	4.80	2.20	0.07	0.20
July	< 4.00	2.50	0.14	0.27
August	< 4.00	< 2.00	0.14	0.27
September	< 4.00	< 2.00	0.18	0.29
October	< 4.00	< 2.00	0.16	0.25
November	< 4.00	2.25	0.06	0.12
December	< 4.00	2.60	0.06	0.17

Note: Condition 6 and 7 of Environmental Compliance Approval Number 5464-AKATW7 indicates average loading and concentration limits and objectives for compliance assessment of carbonaceous biochemical oxygen demand, total suspended solids and total phosphorus against results achieved. Objective exceedances are highlighted in orange.

Table 1b: Total Ammonia Nitrogen (TAN) Effluent Quality Assessment

Parameter	Total Ammonia Nitrogen	
	Monthly Mean Concentration	
ECA Limit	0.8 mg/L May - October	1.5 mg/L November - April
ECA Objective	0.6 mg/L May - October	1.2 mg/L November - April
Month	mg/L	mg/L
January		< 0.10
February		< 0.10
March		< 0.10
April		0.12
May	< 0.10	
June	< 0.10	
July	< 0.10	
August	< 0.10	
September	< 0.10	
October	< 0.10	
November		< 0.10
December		< 0.10

Note: Condition 6 and 7 of Environmental Compliance Approval Number 5464-AKATW7 indicates design objectives and limits for compliance assessment of total ammonia nitrogen against results achieved. There were no design limits or objective exceedances.

Table 1c: Escherichia coli, Toxicity and pH Effluent Quality Assessment

Parameter	Escherichia coli	Toxicity		pH	
	Monthly Mean Geometric Density	Rainbow Trout	Daphnia Magma	Monthly Mean Result	
ECA Limit	200MPN/100mL	Non-toxic Effluent (50%)		6.0	9.5
ECA Objective	200MPN/100mL	Non-toxic Effluent (50%)		6.0	9.5
Month	MPN/100mL	% Mortality		Min	Max
January	0.00	0	0	6.96	7.48
February	0.00	-	-	7.28	7.56
March	0.12	-	-	7.38	7.71
April	2.24	0	0	7.37	7.74
May	0.01	-	-	7.45	7.83
June	0.00	-	-	7.61	7.85
July	0.01	0	0	7.37	7.75
August	0.00	-	-	7.00	7.44
September	0.63	-	-	6.87	7.45
October	3.08	0	0	6.93	7.56
November	0.01	-	-	7.40	7.93
December	1.82	-	-	7.45	7.72

Note: Condition 6 and 7 of Environmental Compliance Approval Number 5464-AKATW7 indicates design objectives and limits for compliance assessment of geometric mean density of E.coli and toxicity against results achieved. There were no design limits or objective exceedances.

Table 2: Effluent Quality Operational Monitoring Data

Month	Biochemical Oxygen Demand	Total Kjeldahl Nitrogen	Unionized Ammonia	Unionized Ammonia @ 15°C	Nitrite	Nitrate	Temperature
	Monthly Individual Concentration		Monthly Mean Concentration				
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C
January	< 4	1.10	< 0.001	< 0.001	< 0.03	15.50	9.35
February	< 4	1.10	< 0.001	< 0.001	< 0.03	17.90	9.78
March	< 4	< 0.50	< 0.001	< 0.001	< 0.03	8.90	9.62
April	< 4	0.60	< 0.001	< 0.001	< 0.03	8.47	12.10
May	4	1.30	< 0.001	< 0.001	< 0.03	10.22	14.28
June	< 4	< 0.50	< 0.001	< 0.001	< 0.03	7.70	17.76
July	< 4	0.70	< 0.001	< 0.001	< 0.03	11.41	22.48
August	< 4	< 0.50	< 0.001	< 0.001	< 0.03	10.98	23.58
September	< 4	0.80	< 0.001	< 0.001	< 0.03	13.20	21.92
October	< 4	< 0.50	< 0.001	< 0.001	< 0.03	16.45	20.33
November	< 4	1.30	< 0.001	< 0.001	< 0.03	17.73	13.45
December	< 4	0.50	< 0.001	< 0.001	< 0.03	20.08	11.30

Note: Effluent monitoring samples are collected as per the Environmental Compliance Approval, F-10-1 Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only) and Wastewater System Effluent Regulations for operational efficiency determination and effluent quality monitoring.

Table 3: Influent Quality Monitoring Data

Month	Biochemical Oxygen Demand	Carbonaceous Biochemical Oxygen Demand	Total Suspended Solids	Total Phosphorus	Total Kjeldahl Nitrogen
	Monthly Mean Concentration				
	mg/L	mg/L	mg/L	mg/L	mg/L
January	104.00	77.75	109.00	1.92	12.73
February	81.25	56.25	78.50	1.59	13.68
March	61.25	55.50	94.50	1.43	8.40
April	154.40	102.00	255.40	2.56	16.00
May	101.75	72.50	110.25	1.73	11.80
June	103.40	84.80	151.20	2.14	15.42
July	162.00	85.75	255.00	4.71	17.90
August	168.50	141.50	150.25	3.26	22.50
September	171.80	147.00	354.00	8.75	27.12
October	97.00	70.50	103.25	1.92	17.33
November	42.25	32.25	41.00	1.28	15.18
December	70.00	51.20	65.00	1.52	15.12

Note: Influent monitoring samples are collected as per the Environmental Compliance Approval and F-10-1 Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only) to determine treatment efficiency.

Effluent Quality Interpretations

Condition 11.4(a) and (f) - (ECA No. 5464-AKATW7)

Note: Results reported as “< value” are the laboratory detection limits used to plot the graph.

Carbonaceous Biochemical Oxygen Demand (CBOD)

Influent

Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly

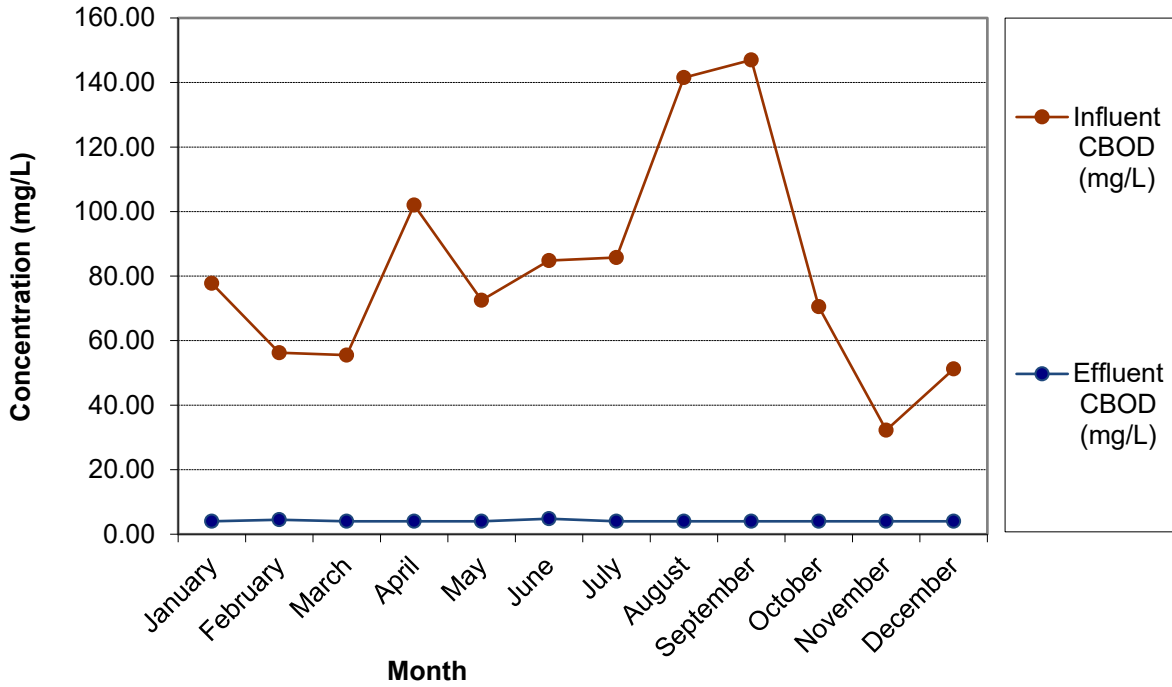
Effluent

Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 5mg/L
 Compliance Limit: 10mg/L
 Compliance Limit Exceedance: No

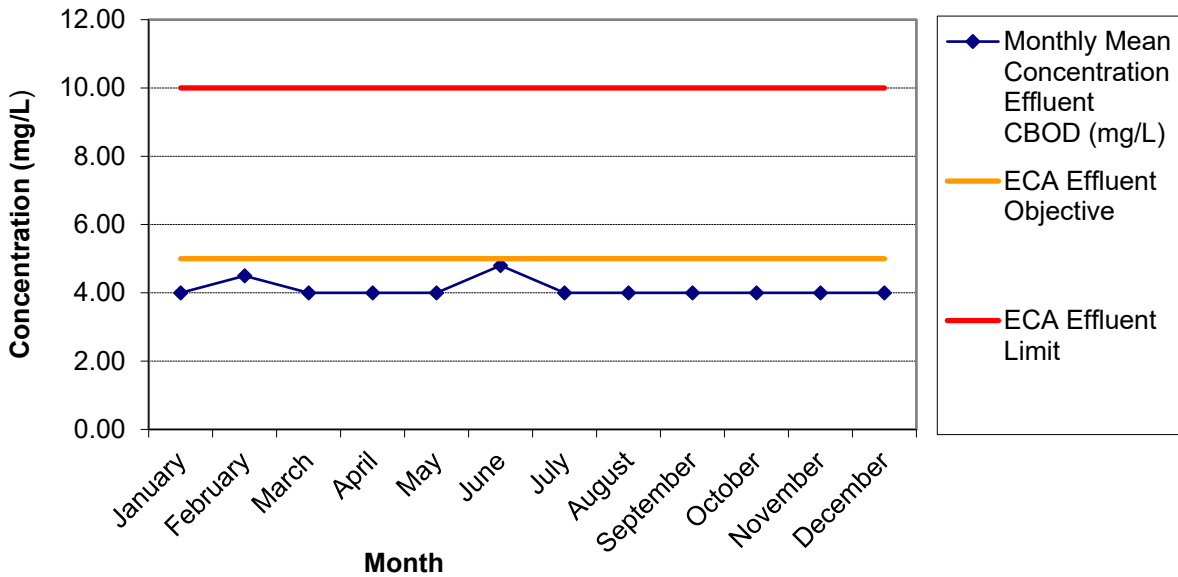
Table 4: Carbonaceous Biochemical Oxygen Demand Percent Removal Values

Month	Influent Carbonaceous Biochemical Oxygen Demand	Effluent Carbonaceous Biochemical Oxygen Demand	Percent Removal Carbonaceous Biochemical Oxygen Demand
	Monthly Mean Concentration		%
	mg/L	mg/L	
January	77.75	< 4.00	94.86
February	56.25	4.50	92.00
March	55.50	< 4.00	92.79
April	102.00	< 4.00	96.08
May	72.50	< 4.00	94.48
June	84.80	4.80	94.34
July	85.75	< 4.00	95.34
August	141.50	< 4.00	97.17
September	147.00	< 4.00	97.28
October	70.50	< 4.00	94.33
November	32.25	< 4.00	87.60
December	51.20	< 4.00	92.19

Carbonaceous Biochemical Oxygen Demand
 Monthly Average Influent CBOD vs. Effluent CBOD Values



Carbonaceous Biochemical Oxygen Demand
 Effluent Quality: Actual vs. Objective & Limit CBOD Concentrations



Total Suspended Solids (TSS)

Influent

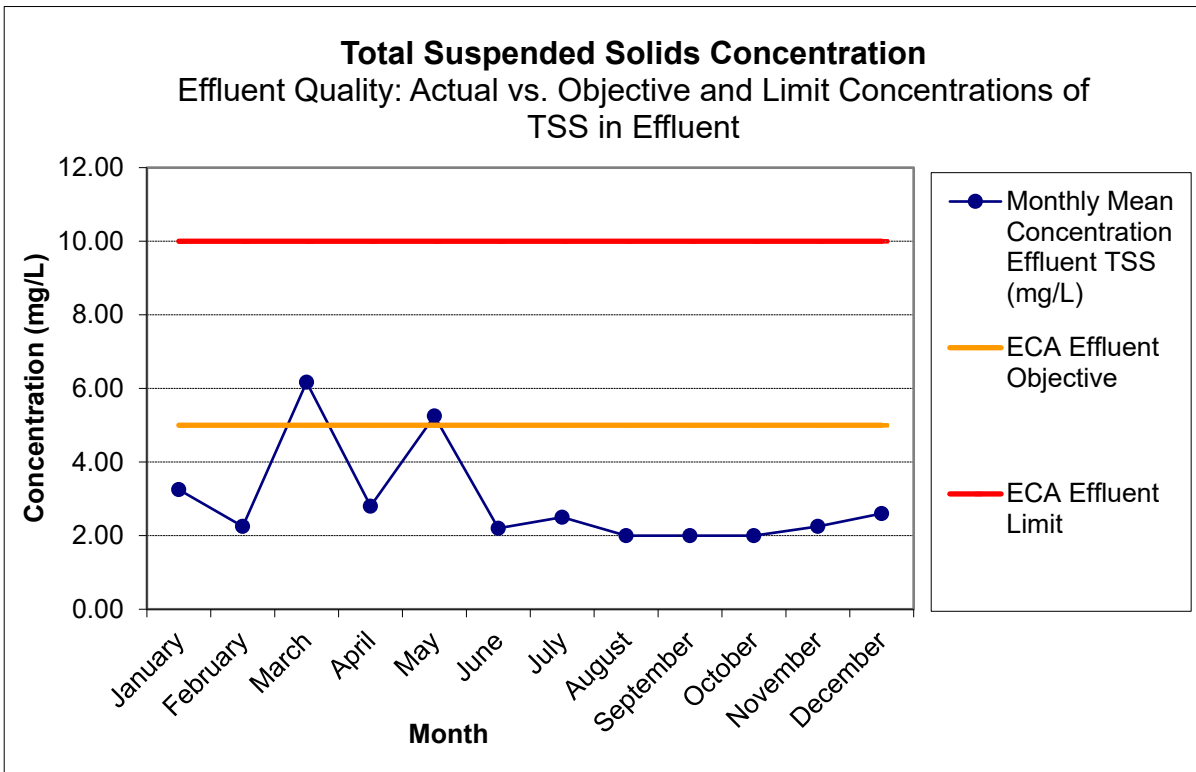
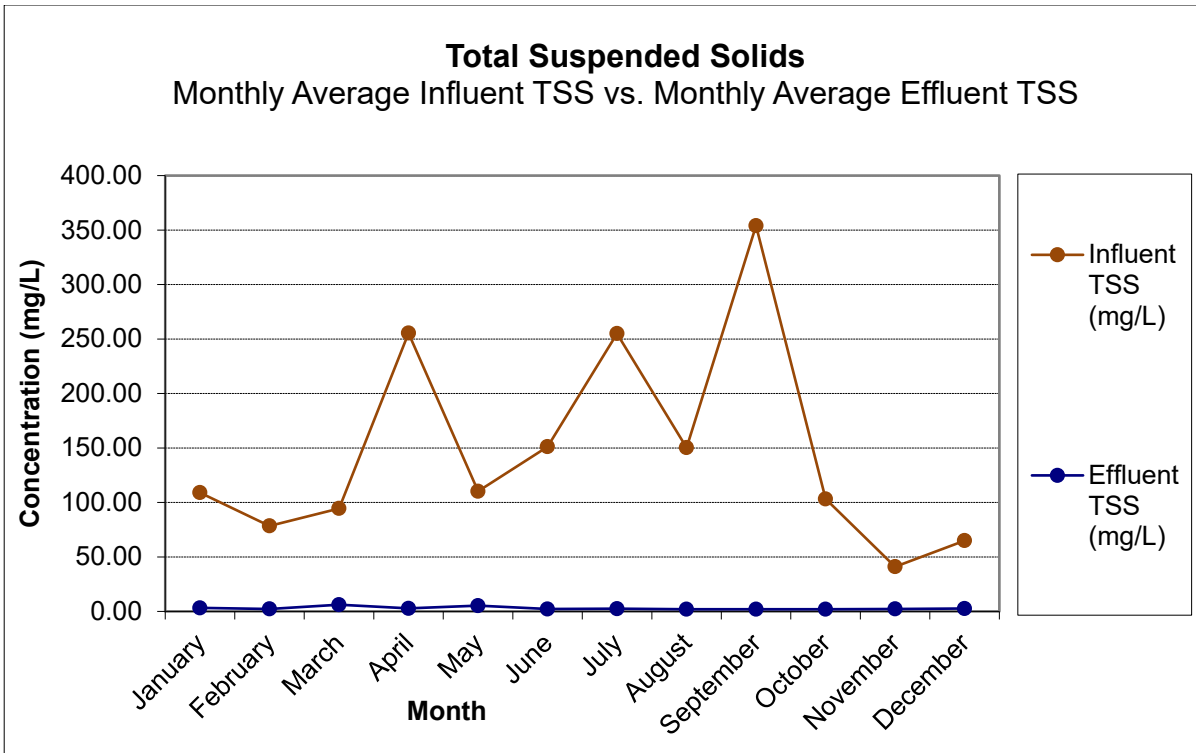
Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly

Effluent

Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 5mg/L
 Compliance Limit Monthly Average Concentration: 10mg/L
 Compliance Limit Exceedance: No

Table 5: Total Suspended Solids Percent Removal Values

Month	Influent Total Suspended Solids	Effluent Total Suspended Solids	Percent Removal Total Suspended Solids
	Monthly Mean Concentration		%
	mg/L	mg/L	
January	109.00	3.25	97.02
February	78.50	2.25	97.13
March	94.50	6.17	93.47
April	255.40	2.80	98.90
May	110.25	5.25	95.24
June	151.20	2.20	98.54
July	255.00	2.50	99.02
August	150.25	< 2.00	98.67
September	354.00	< 2.00	99.44
October	103.25	< 2.00	98.06
November	41.00	2.25	94.51
December	65.00	2.60	96.00



Total Phosphorus (TP)

Influent

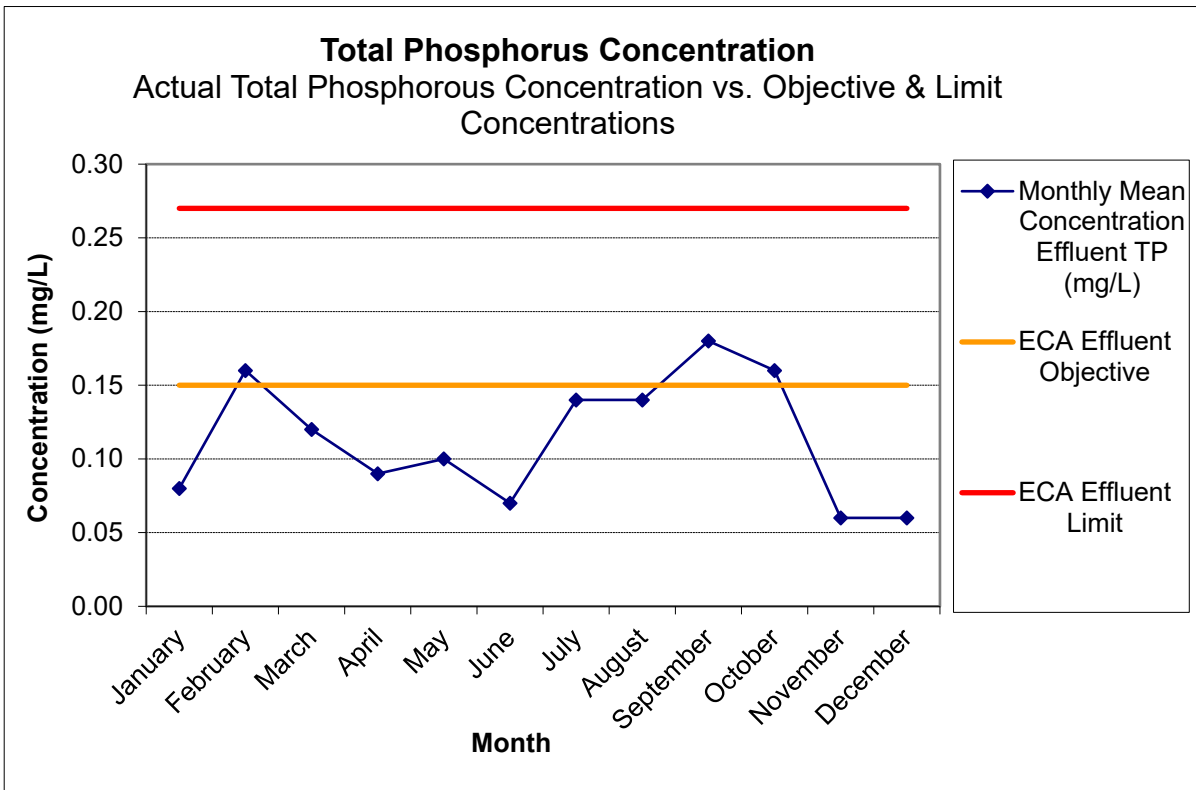
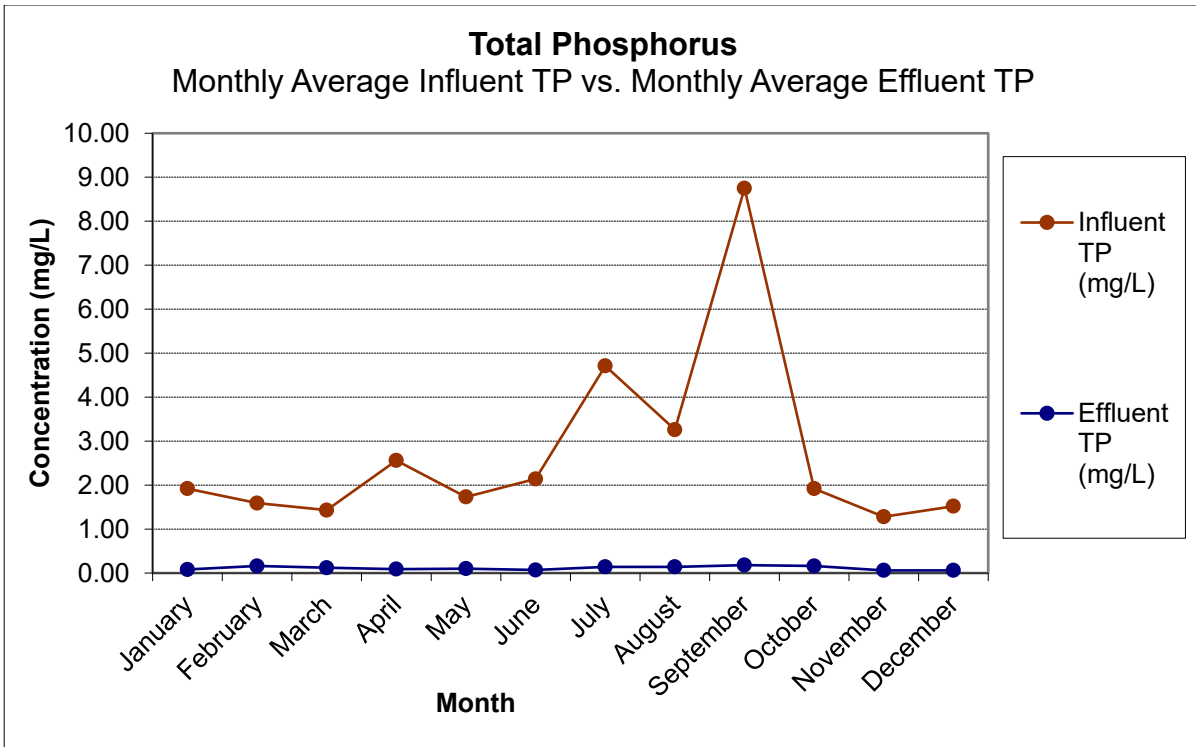
Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly

Effluent

Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 0.15mg/L
 Compliance Limit Monthly Average Concentration: 0.27mg/L
 Compliance Limit Monthly Average Daily Waste Loading: 1.63kg/d
 Compliance Limit Exceedance: No

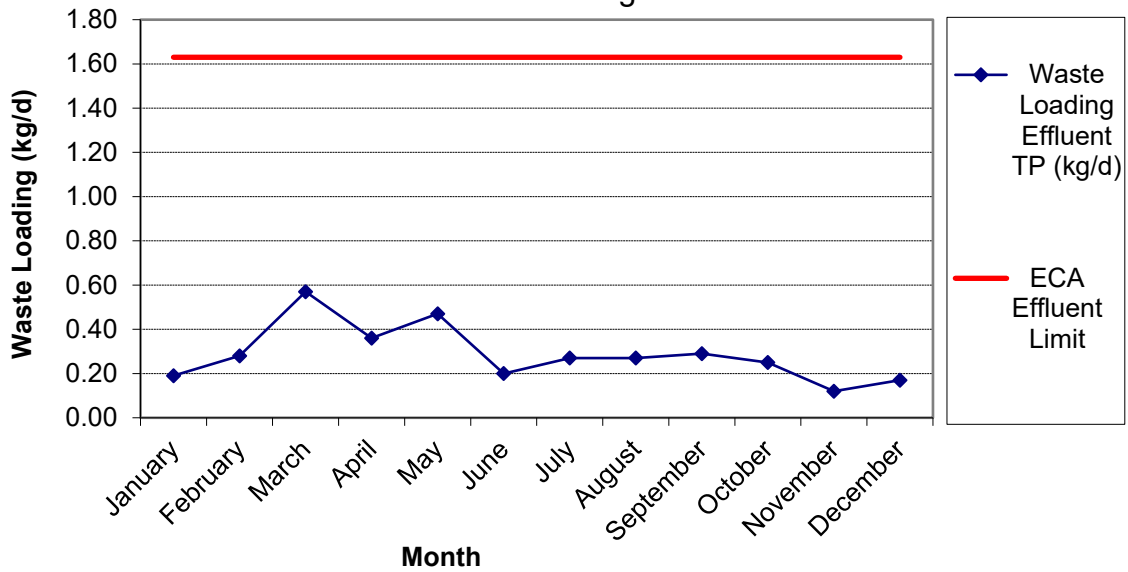
Table 6: Total Phosphorus Percent Removal Values

Month	Influent Total Phosphorus	Effluent Total Phosphorus	Percent Removal Total Phosphorus
	Monthly Mean Concentration		%
	mg/L	mg/L	
January	1.92	0.08	95.83
February	1.59	0.16	89.94
March	1.43	0.12	91.61
April	2.56	0.09	96.48
May	1.73	0.10	94.22
June	2.14	0.07	96.73
July	4.71	0.14	97.03
August	3.26	0.14	95.71
September	8.75	0.18	97.94
October	1.92	0.16	91.67
November	1.28	0.06	95.31
December	1.52	0.06	96.05



Total Phosphorus Waste Loading

Actual Total Phosphorous Waste Loading vs. Limit Waste Loading



pH

Influent

Sampling Frequency: Weekly (minimum)
Sample Type: Grab
Environmental Compliance Approval Requirement: N/A

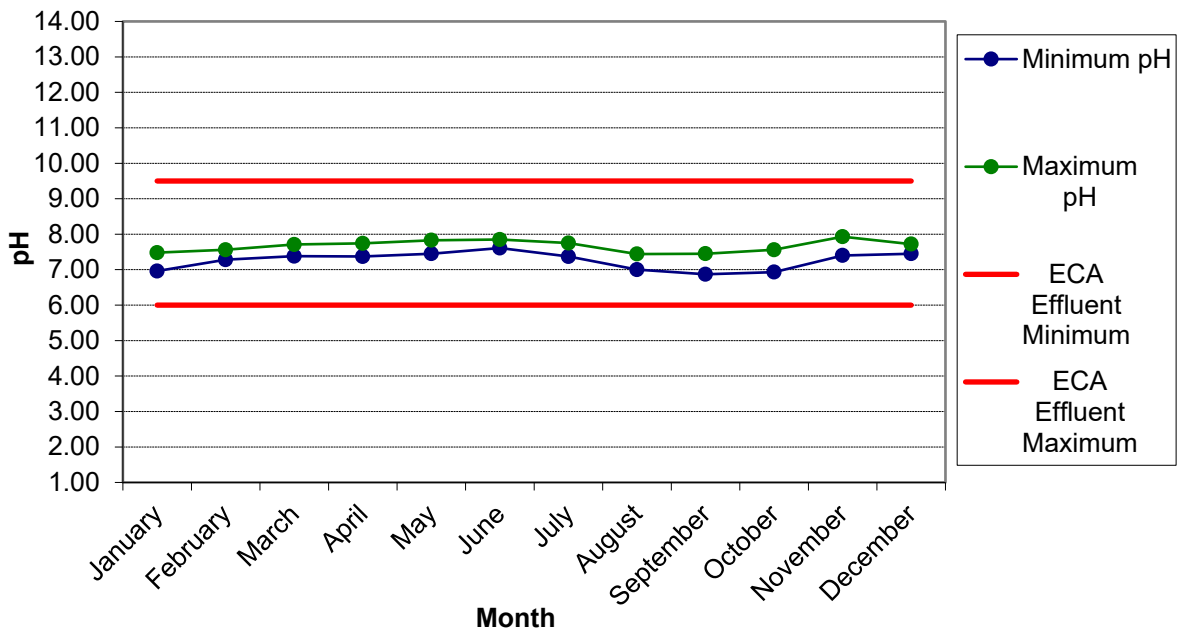
Effluent

Sampling Frequency: Weekly (minimum)
Sample Type: Grab
Environmental Compliance Approval Requirement: Weekly
Compliance Objective: Range 6-9.5
Compliance Limit: Range 6-9.5
Compliance Limit Exceedance: No

Table 7: pH Minimum and Maximum Values

Month	Minimum pH	Maximum pH
January	6.96	7.48
February	7.28	7.56
March	7.38	7.71
April	7.37	7.74
May	7.45	7.83
June	7.61	7.85
July	7.37	7.75
August	7.00	7.44
September	6.87	7.45
October	6.93	7.56
November	7.40	7.93
December	7.45	7.72

pH pH Values vs. Minimum and Maximum Certificate of Approval Limits



Disinfection: *Escherichia coli* (*E. coli*) Geometric Mean Density

Influent

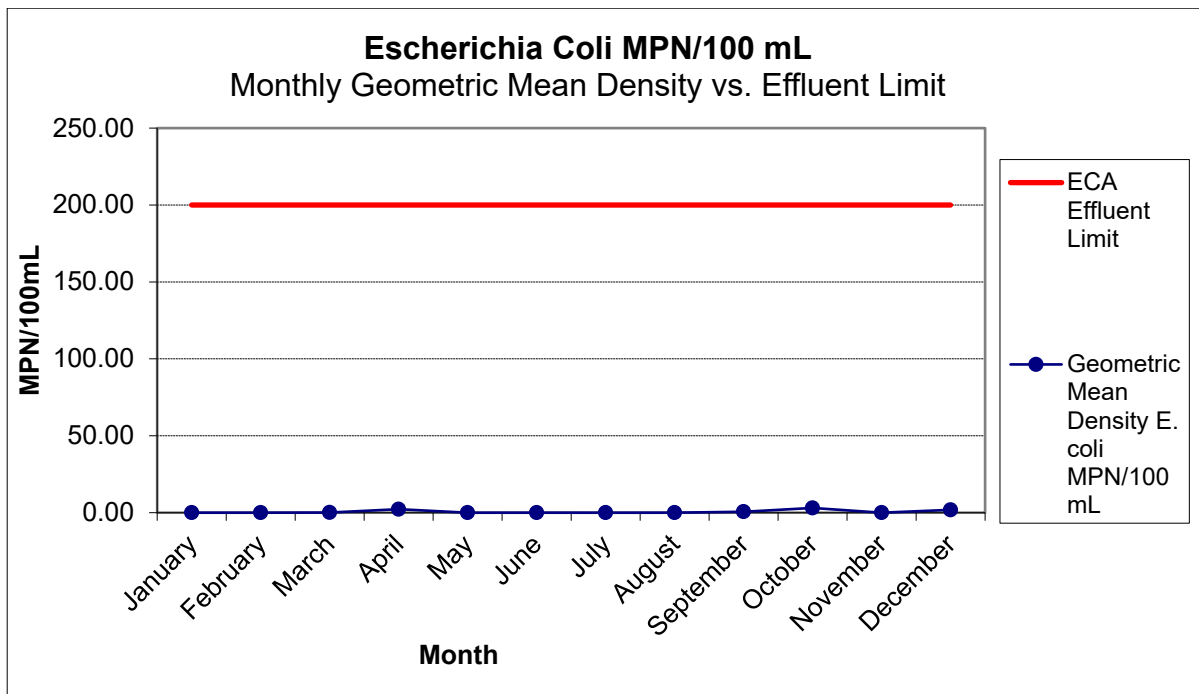
Sampling Frequency: N/A
 Environmental Compliance Approval Requirement: N/A

Effluent

Sampling Frequency: Weekly
 Sample Type: Grab
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 200 MPN/100mL Geometric Mean Density
 Compliance Limit: 200 MPN/100mL Geometric Mean Density
 Compliance Limit Exceedance: No

Table 8: *Escherichia coli* Geometric Mean Density Values

Month	Geometric Mean Density
	MPN/100mL
January	0.00
February	0.00
March	0.12
April	2.24
May	0.01
June	0.00
July	0.01
August	0.00
September	0.63
October	3.08
November	0.01
December	1.82



Nitrogen Removal

Total Ammonia Nitrogen (TAN)

Influent

Sampling Frequency: Weekly (Monitoring)
 Sample Type: Composite
 Environmental Compliance Approval Requirement: N/A

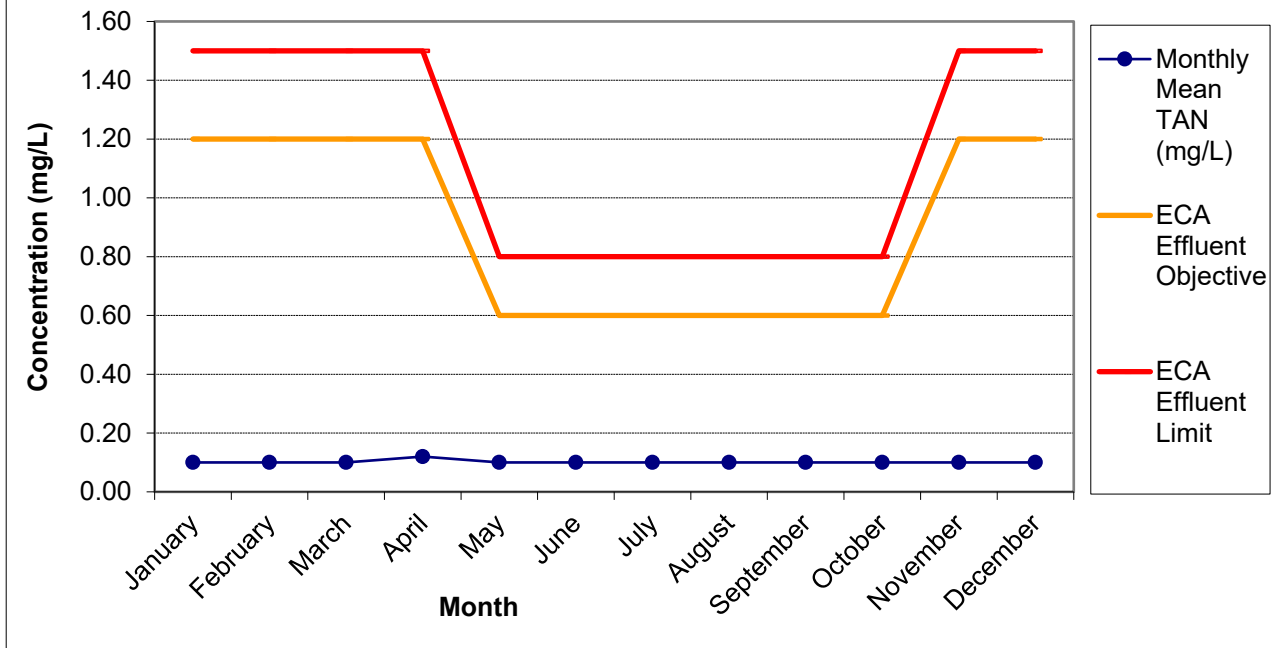
Effluent

Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: May–October 0.6mg/L, November–April 1.2mg/L
 Compliance Limit: May–October 0.8mg/L, November–April 1.5mg/L
 Compliance Limit Exceedance: No

Table 9: Total Ammonia Nitrogen Values

Month	Monthly Mean TAN (mg/L)	ECA Effluent Objective	ECA Effluent Limit
	Monthly Mean		
	mg/L	mg/L	mg/L
January	< 0.10	1.20	1.50
February	< 0.10	1.20	1.50
March	< 0.10	1.20	1.50
April	0.12	1.20	1.50
May	< 0.10	0.60	0.80
June	< 0.10	0.60	0.80
July	< 0.10	0.60	0.80
August	< 0.10	0.60	0.80
September	< 0.10	0.60	0.80
October	< 0.10	0.60	0.80
November	< 0.10	1.20	1.50
December	< 0.10	1.20	1.50

Total Ammonia Nitrogen Actual TAN Concentration vs Objective and Limit Concentrations



Effluent Toxicity: Rainbow Trout and *Daphnia magna* Acute Mortality Testing

Influent

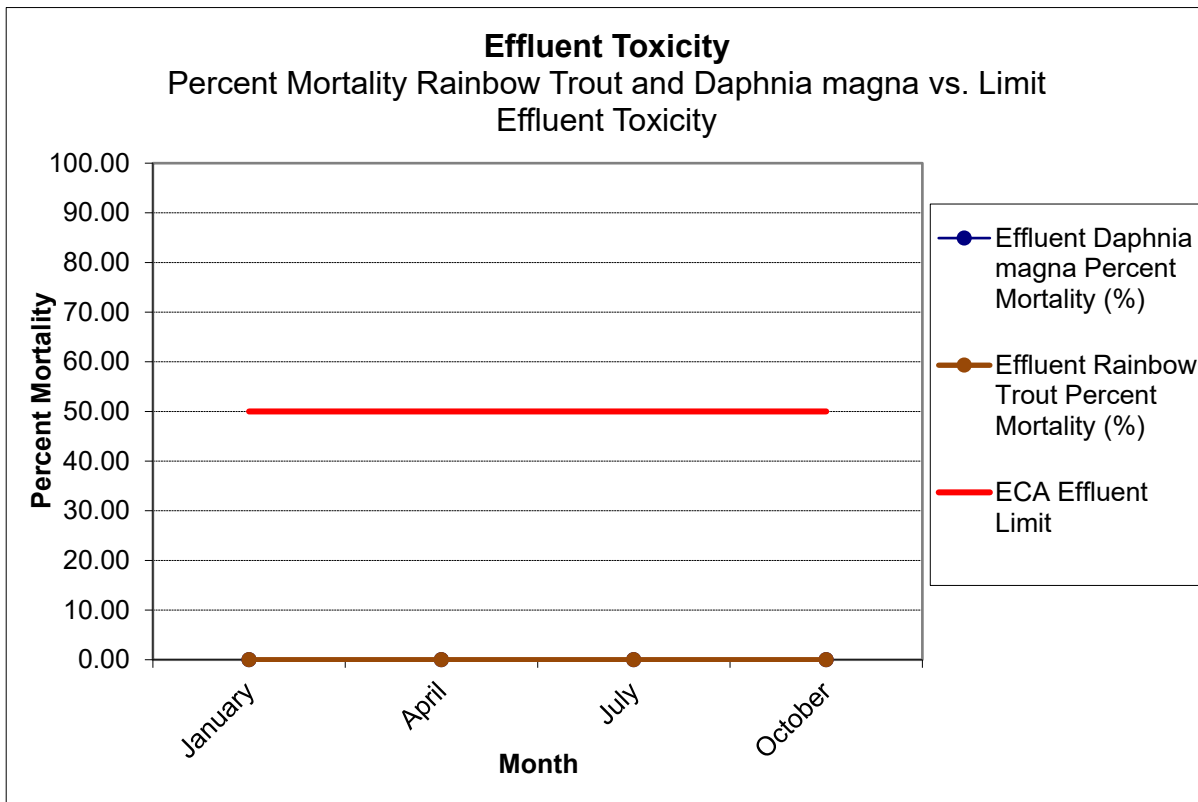
Sampling Frequency: N/A
 Sample Type: N/A
 Environmental Compliance Approval Requirement: N/A

Effluent

Sampling Frequency: Quarterly
 Sample Type: Grab
 Environmental Compliance Approval Requirement: Monthly, reduced to quarterly after 12 consecutive non-toxic samples. (Condition satisfied.)
 Compliance Objective: Non-toxic effluent
 Compliance Limit: Non-toxic effluent (Percent Mortality <50%)
 Compliance Limit Exceedance: No

Table 10: Effluent Toxicity Values

Month	Effluent <i>Daphnia magna</i> Percent Mortality	Effluent Rainbow Trout Percent Mortality
	%	%
January	0	0
April	0	0
July	0	0
October	0	0



Capacity Assessment: Influent and Effluent Quantities

Table 11: Influent Quantity; Flow Data

Month	Approved Capacity (Rated Capacity) ¹	Monthly Average	Approved Capacity (Peak Daily Flow Rate) ²	Peak Daily Flow Rate
	m ³ /day	m ³ /day	m ³ /day	m ³ /day
January	6000	2426.48	26400	4477.91
February	6000	1801.16	26400	2340.71
March	6000	4922.47	26400	11058.63
April	6000	4002.40	26400	8193.03
May	6000	4522.83	26400	9770.14
June	6000	2780.57	26400	3751.59
July	6000	2061.54	26400	2277.75
August	6000	1872.41	26400	2436.31
September	6000	1600.16	26400	1818.08
October	6000	1603.60	26400	2088.82
November	6000	2125.12	26400	2748.92
December	6000	2633.46	26400	5368.51
Annual	6000	2696.02	26400	4694.20

Note¹: As per ECA No. 5464-AKATW7, "Rated Capacity" is defined as the Annual Average Daily Flow for which the Sewage Treatment Plant is designed to handle. The Picton WWTP maintained an average daily flow within approved capacity requirements for the 2025 operational year.

Note²: As per ECA No. 5464-AKATW7, "Peak Flow Rate" is defined as the Peak Instantaneous Flow Rate, Peak Hourly Flow Rate or Peak Daily Flow Rate for which the Sewage Treatment Plant or treatment process unit or equipment is designed to handle, as appropriate. The Picton WWTP maintained Peak Daily Flow Rate within approved capacity requirements for the 2025 operational year.

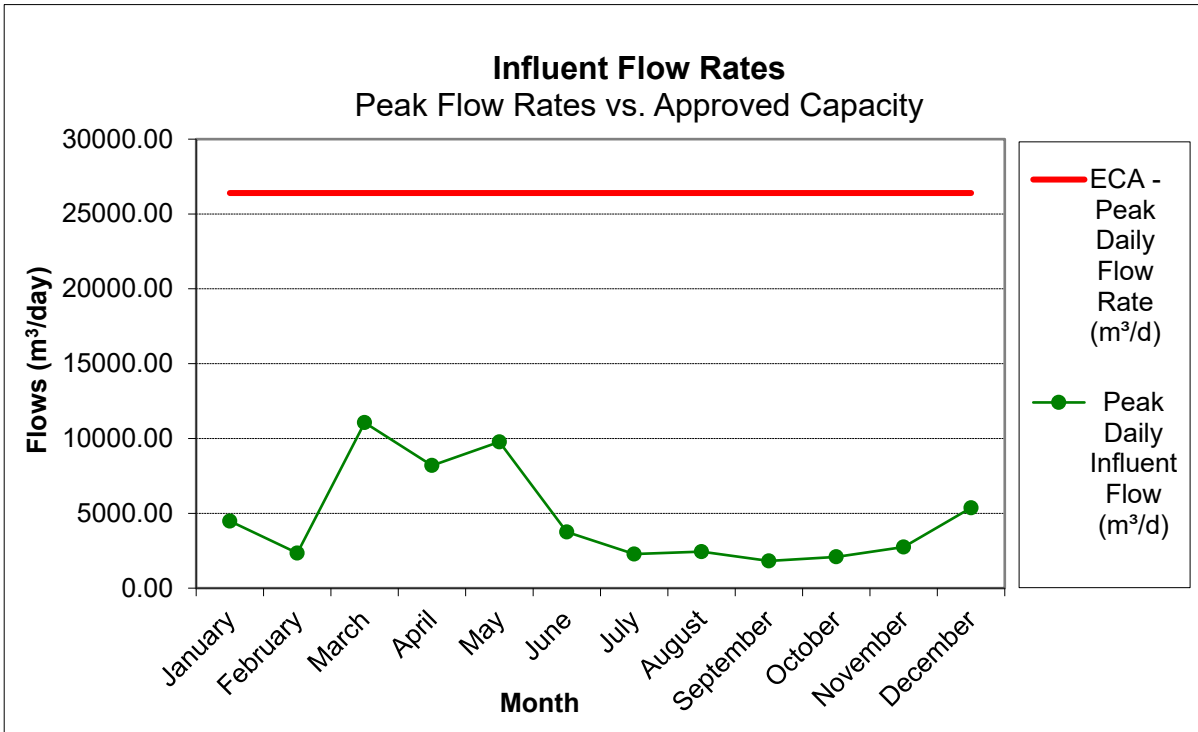
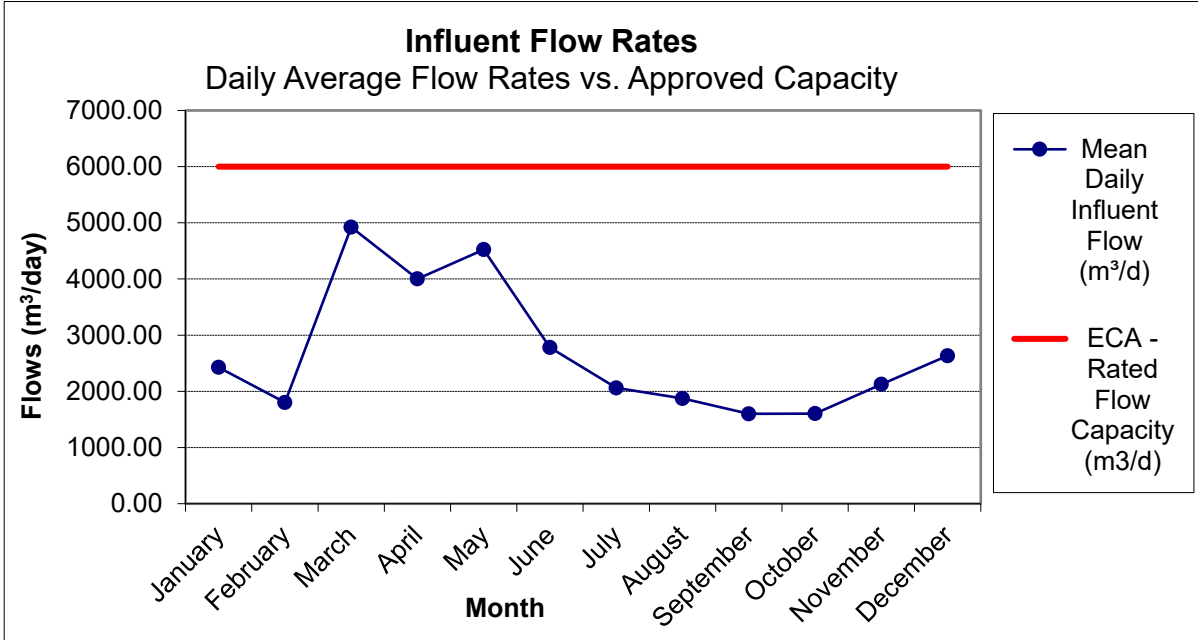


Table 12: Historical Influent Flows

Year	Total Influent Flow	Annual Average Daily Flow
	m ³	m ³ /day
2015	865255.04	2370.56
2016	977265.12	2670.12
2017	1308584.33	3585.16
2018	1142974.13	3131.44
2019	1195875.12	3276.37
2020	1023748.86	2793.59
2021	858004.49	2350.70
2022	1130953.94	3098.50
2023	1290722.78	3536.23
2024	1076771.04	2364.61
2025	987006.79	2704.13

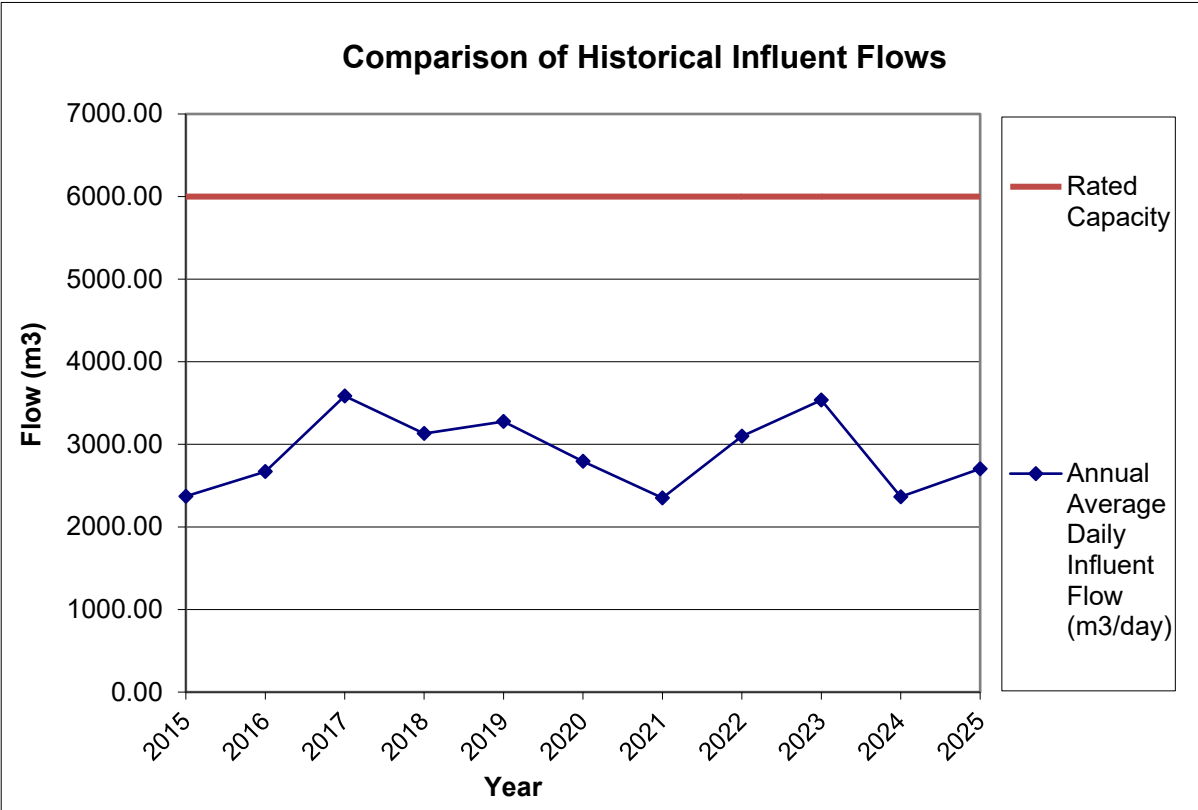
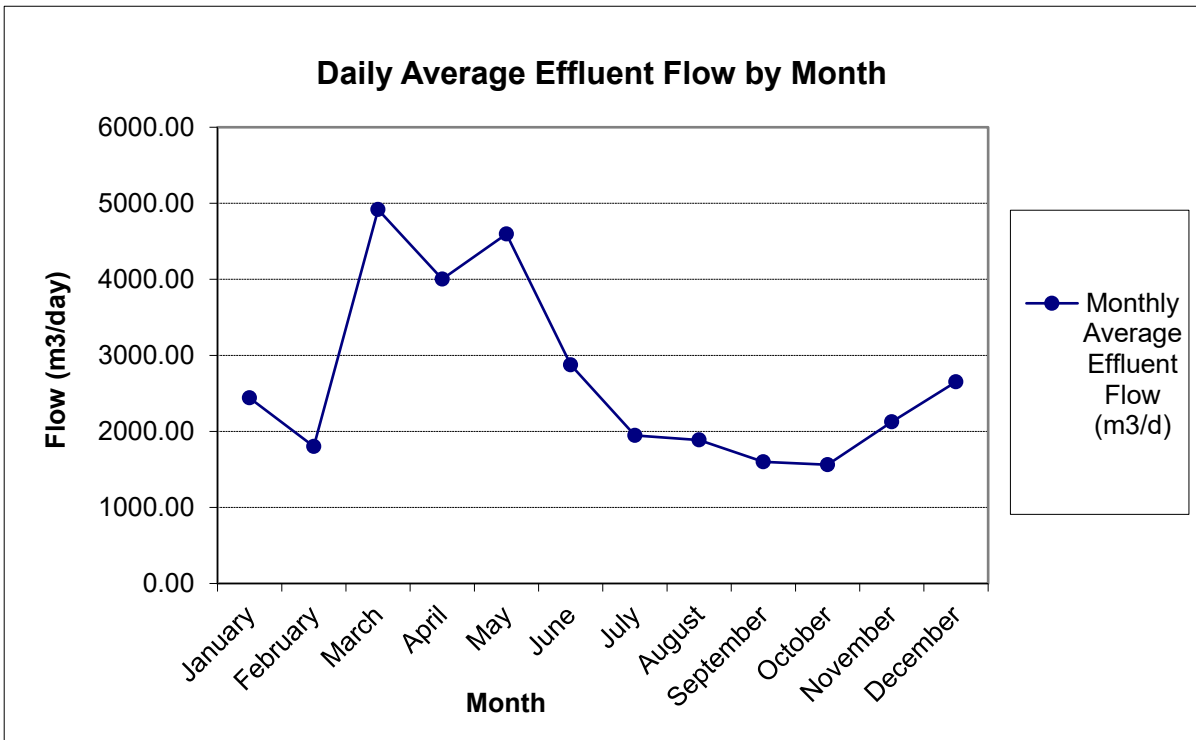


Table 13: Effluent Quantity Flow Data

Month	Monthly Average	Total Flow
	m ³ /day	m ³
January	2439.57	75626.55
February	1801.29	50436.01
March	4916.96	152425.71
April	4002.42	120072.58
May	4595.50	142460.38
June	2874.10	86222.96
July	1946.01	60326.39
August	1886.82	58491.39
September	1599.53	47985.89
October	1561.73	48413.57
November	2124.97	63749.05
December	2651.82	82206.45



Operating Problems and Corrective Actions

Condition 11.4(b) - (ECA No. 5464-AKATW7)

Table 14: A description of any operating problems encountered, and corrective actions taken

Date Discovered	Date Resolved	Affected Equipment or Process	Description of any Operating Problems Encountered	Corrective Actions
No Operating Problems were noted in 2025.				

Maintenance Summary

Condition 11.4(c) - (ECA No. 5464-AKATW7)

Summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the works:

Routine preventative maintenance performed throughout the reporting period:

Collection System: Pumping Stations

- Annual electrical work-orders
- Annual Health and Safety equipment work-orders (fire extinguishers, lifting devices, gas detection equipment, etc.)
- Annual wet well cleaning, inspection and maintenance
- Annual equipment maintenance, calibrations and inspections (generators, submersible pumps flow meters, et. al.)

Treatment System: Picton Wastewater Treatment Plant

- Annual electrical work-orders
- Annual Health and Safety equipment work-orders (fire extinguishers, lifting devices, gas detection equipment, etc.)
- Annual equipment maintenance, calibrations and inspections (blowers, compressors, generators, submersible pumps, flow meters, laboratory equipment, et. al.)
- Monthly equipment maintenance and inspections (wet well inspections, UV disinfection equipment inspections, headworks equipment inspections, tertiary treatment inspections, pressure sustaining valve, et. al.)
- Required cleaning and inspection of tanks (as necessary)
- Biosolids removal
- Full inspection of UV banks. 12000-hour service requirement for proper operation of the UV disinfection system. Replacement of all UV lamps and sleeves. Annual maintenance.

Table 15: Additional Maintenance

System	Date Started	Date Completed	Equipment/Process	Description of Maintenance
SPX*	February 7, 2025	February 7, 2025	Sewer Lateral Replacement	In response to customer concern, the lateral within the municipal road allowance was found to be vitrified clay tile and was laid through a storm sewer when installed. The sewer lateral was replaced by third party contractor.
SPT	March 3, 2025	March 4, 2025	Alum lines/headwork fitting replacement	Alum lines and aging fittings in headworks building that feed equipment in bar screen room were replaced.
SPT	March 13, 2025	April 10, 2025	Mechanical bar screen	Brush shaft replaced, gear reducer repaired and installed by third party contractors.
SPT	April 8, 2025	April 10, 2025	Replace automatic bar screen chain	Bar screen chain was damaged and at end of life. Third party contractor replaced the chain and reassembled the automatic bar screen back to working order.
SPX*	May 6, 2025	May 6, 2025	Sewer Lateral Repair	In response to a plumber notification as result of a customer concern, the lateral within the municipal road allowance was found to be vitrified clay tile and a void under the roadway was discovered. The lateral was repaired to the sewer main from property line.
SPX*	May 7, 2025	May 7, 2025	Sewer Lateral Repair	In response to customer concern, the sewer lateral was excavated from the property line to the sewer main. There was a piece of asbestos cement (AC) pipe between two historical repairs that was creating a blockage in flow. The AC pipe was removed, and a new piece of 5' PVC sewer lateral was installed.
SPT	May 20, 2025	June 6, 2025	Secondary Clarifier #2	Replaced clarifier chains, sprockets, concrete wear strips, collector bar wear parts, collector bar motion sensors, drive chain and sprockets.

**Events indicated with an asterisk are noted in CLI-ECA Performance Report as well.*

Effluent Quality Assurance and Control Measures

Condition 11.4(d) - (ECA No. 5464-AKATW7)

Quality Assurance

The Picton Wastewater Treatment Plant implements quality assurance strategies to ensure consistent compliance with regulatory and operational standards. Quality assurance focuses on preventing issues before they occur by establishing structured procedures, staff training, and maintenance programs. The plant follows manufacturer-recommended calibration and maintenance schedules, completes sampling beyond the required parameters, and operates according to the engineering recommendations and standard operating procedures. These proactive measures help uphold operational efficiency and ensure effluent quality through process control.

Quality Control

The Picton Wastewater Treatment Plant applies quality control measures to ensure that treated effluent consistently meets regulatory and operational standards. Quality control focuses on detecting and

correcting issues through regular sampling, testing, and system checks. Effluent quality is monitored against compliance limits. Any deviations require root cause analysis and trigger corrective actions.

Effluent analysis for all compliance and monitoring parameters under Environmental Compliance Approval No. 5464-AKATW7 are conducted by accredited laboratories, SGS Lakefield and SGS London, with Caduceon Environmental Laboratories as a secondary backup. Sample collection and in-house analysis are performed by licensed wastewater operators.

Sampling follows required frequencies and defined methods, and referenced against to compliance design limits and objectives. Additional samples are taken during bypasses, overflows, or abnormal conditions. Beyond regulatory requirements, additional in-house and laboratory samples assess treatment effectiveness and determination of removal efficiencies. Ongoing evaluation of non-regulated monitoring samples support effluent quality control and process optimization.

Third-party calibration of flow meters, routine equipment checks, and SCADA alarm monitoring further support process reliability. By continuously analyzing performance data and making necessary adjustments, the plant maintains high treatment efficiency and protects the receiving environment.

Effluent Monitoring Equipment Maintenance and Calibration

Condition 11.4(e) - (ECA No. 5464-AKATW7)

All monitoring equipment is calibrated and maintained according to the manufacturer's recommendations. Calibrations are scheduled through a preventative maintenance database, which tracks due dates and logs completed work.

Licensed operators perform routine maintenance, while flow measuring devices at the Picton Wastewater Treatment Facility undergo annual calibration by a certified third-party service provider. Other operational equipment is submitted for third-party review as needed.

Table 16: Flow Measuring Equipment Calibrations

Equipment Location	Description	Calibrated By	Calibration Date
Picton WWTP (Final Effluent Measured at Lalor Street Pump Station)	Final Effluent Flowmeter (FIT 701) (Dissipation Chamber)	Tower Electronics Canada Inc.	July 26, 2025
Lalor Inlet Pumping Station	Dissipation Chamber (FIT 701)	Tower Electronics Canada Inc.	July 21, 2025
Lalor Inlet Pumping Station	Force Main #1 (FIT 101)		
Lalor Inlet Pumping Station	Force Main #2 (FIT 102)		

Design Objectives Assessment

Condition 11.4 (f) - (ECA No. 5464-AKATW7)

As per ECA No. 5464-AKATW7, Condition 6, The Owner shall:

1. Use best efforts to design, construct and operate the Works such that the design objectives of the materials named below as effluent parameters are achieved in the Final Effluent from the Sewage Treatment Plant:
 - a. Effluent parameters with concentration objective:

Table 17: Effluent Objectives

Effluent Parameter	Concentration Objective (mg/L unless otherwise indicated)	Averaging Period
Biochemical Oxygen Demand (BOD5)	5	Monthly
Total Suspended Solids (TSS)	5	Monthly
Total Phosphorus (TP)	0.15	Monthly
Total Ammonia Nitrogen (NH ₃ -N) May-October	0.6	Monthly
Total Ammonia Nitrogen (NH ₃ -N) November-April	1.2	Monthly

- b. pH within the range of 6.0-9.5, inclusive at all times,
- c. The Final Effluent is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discoloration on the receiving waters,
- d. The Final Effluent is continuously disinfected so that the monthly Geometric Mean Density of E.coli does not exceed 200 organisms per 100 milliliters of Final Effluent,
- e. The Final Effluent is non-acutely lethal to Rainbow Trout and Daphnia magna.

2. Use best efforts to operate the Works within the Rated Capacity of the Sewage Treatment Plant and the Peak Flow Rates of all components of the Works,

3. Make an assessment of the issues and recommendation of pro-active actions if any is required under the following situations and include in the annual report to the Water Supervisor:

- a. when any of the design objectives is not achieved consistently;
- b. when the Annual Average Daily Flow reaches 80% of the Rated Capacity.

The Picton Wastewater Treatment Plant is operated and maintained to meet its design objectives by adhering to regulatory requirements, implementing proactive maintenance and calibration programs, conducting comprehensive monitoring, and continuously optimizing treatment processes.

Individual statements of compliance with design limits and objectives are noted within the monitoring data assessments. The following is the summary of process parameter where in the design objective was not met:

Table 18: Design Objective Exceedances

Parameter	Design Objective	Monthly Mean Result	Month	Root Cause	Corrective Action
TSS	5 mg/L	6.17mg/L	March 2025	Increase in the influent was responsible for higher than normal values for TSS.	Tertiary treatment filter maintenance and cleaning was conducted. Suction line of effluent composite sampler was installed. Ongoing monitoring.
		5.25 mg/L	April 2025		
TP	0.15mg/L	0.16mg/L	February 2025	Chemical dosing adjustments required	Chemical addition dosage optimization.
		0.18mg/L	September 2025		
		0.16mg/L	October 2025	There was a plugged coagulant feed line found.	The coagulant feed line was replaced.

- While the annual average daily influent flow remained within the rated capacity, there were 16 daily events of rated capacity exceedance. The annual average daily influent flow remains below 80% of the rated capacity. Average daily rated capacity exceedance events are listed in Table 19.

Table 19: Average daily rated capacity exceedance events

No.	Date	Average Daily Flow m ³ /day
1	March 6, 2025	6691.67
2	March 12, 2025	6021.95
3	March 16, 2025	9499.55
4	March 17, 2025	11058.63
5	March 18, 2025	7356.33
6	March 31, 2025	7435.312
7	April 1, 2025	6329.87
8	April 3, 2025	8193.03
9	April 4, 2025	6755.32
10	April 5, 2025	6040.13
11	May 7, 2025	6878.63
12	May 8, 2025	6262.66
13	May 23, 2025	8587.55
14	May 24, 2025	9770.14
15	May 25, 2025	7630.82
16	May 26, 2025	6169.64

Biosolids Management

Condition 11.4(g) - (ECA No. 5464-AKATW7)

All sludge generated during 2025 was land applied in Prince Edward County by GFL Environmental Inc. The sludge volumes can be assessed as listed below in **Table 19: Biosolids Management Quantities**.

Table 20: Biosolids Management Quantities for Picton Wastewater Treatment Plant

Date	NASM	Farmer/ Landowner	Township	Ward	Total Volume
	#				m ³
September 15-25, 2025	62881	Bay Breeze Farms	Prince Edward	Ameliasburgh	3225
Total					3225

For 2026, biosolids will go to tender for land application. The disposal will occur at approved site(s) within the boundaries of Prince Edward County. It is expected that the volume of sludge generated will be comparable to 2025 volumes.

Complaints and Customer Concerns

Condition 11.4(h) - (ECA No. 5464-AKATW7)

Table 21: Customer complaints and associated corrective actions are outlined as

Date	Nature of Complaint	Description of Complaint	Action Taken
No Customer complaints were received regarding Picton Wastewater Treatment Plant in 2025. Complaints and Customer Concerns associated with the Picton Wastewater Collection System can be found in the CLI-ECA Performance Report.			

Event Summary

Condition 11.4(i) - (ECA No. 5464-AKATW7)

Table 22: Event Summary

Date Discovered	Date Resolved	Affected Equipment or Process	Description of any Operating Problems Encountered	Corrective Actions
March 16, 2025	March 16, 2025	Tertiary Treatment	Due to heavy rains, tertiary treatment was overloaded resulting in a partial bypass of tertiary treatment for 10 minutes. During the event total of 0.17 cubic meters was bypassed filtration but received UV disinfection.	Monitoring and sampling were completed as per the ECA requirements.

Notice of Modifications

Condition 11.4(j), (k) - (ECA No. 5464-AKATW7)

There were no Notice of Modifications submitted during this reporting period. Normal and emergency operational modifications to existing approved sewage works equipment are outlined in the Maintenance Summary under *Condition 11.4(c)*.

Additional Information

Condition 11.4(l) - (ECA No. 5464-AKATW7)

There was no additional information required by the Water Supervisor in the reporting period.

OPERATIONAL REPORTS

WELLINGTON WWTP

ANNUAL PERFORMANCE REPORT
(ECA NO. 0003-CGGME6)



TheCounty

PRINCE EDWARD COUNTY • ONTARIO

2025 Annual Wastewater Performance Report

The Corporation of the County of Prince Edward: Wellington Water Pollution Control Plant
MECP Identifier No. 120003165
Environmental Compliance Approval: ECA No. 0003-CGGME6

Wellington sanitary collection system services the town of Wellington through a network of underground collection infrastructure and two pump stations located at Wharf Street and Harbour Street. A third pump station located at the treatment facility receives flows from the entire collection system and channels it through the treatment process. The Wellington Water Pollution Control Plant is classified as Class 2 extended aeration treatment facility with secondary treatment and ozone disinfection. Wet weather flow equalization facilities were added to the treatment system (Commissioned in 2023) to divert a portion of influent sanitary sewage during peak flow events as needed to reduce the risk of impacts to the treatment system. Disinfected final effluent is discharged via a 600mm pipe to Lake Ontario. Standby generators are in place in the event of a utility power failure.

Wellington Environmental Compliance Approval: ECA No. 0003-CGGME6, Condition 11-4

The annual reporting requirements as per Environmental Compliance Approval (ECA) number 0003-CGGME6 have been listed below. In accordance with Condition 11-4, *The Owner shall prepare performance reports on a calendar year basis and submit to the District Manager by March 31 of the calendar year following the period being reported on. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:*

- a. *a summary and interpretation of all Influent monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;*
- b. *a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;*
- c. *a summary of all operating issues encountered and corrective actions taken;*
- d. *a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;*
- e. *a summary of any effluent quality assurance or control measures undertaken;*
- f. *a summary of the calibration and maintenance carried out on all Influent and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;*
- g. *a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:*
 - i. *when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;*
 - ii. *when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;*
- h. *a tabulation of the volume of sludge generated, 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;*
- i. *a summary of any complaints received and any steps taken to address the complaints;*
- j. *a summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;*

- k. a summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on status of implementation of all modification.
- l. a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow elimination including expenditures and proposed projects to eliminate Bypass/Overflows with estimated budget forecast for the year following that for which the report is submitted.
- m. any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works.
- n. a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;

Monitoring and Analytical Data

Condition 11.4(a), (b) - (ECA No. 0003-CGGME6)

Summary of all monitoring and analytical data collected relative to the works during the reporting period:

Table 1a: Compliance Parameter Assessments

Parameters	CBOD		TSS		Total Phosphorus	
	Monthly Mean Concentration	Average Waste Loading	Monthly Mean Concentration	Average Waste Loading	Monthly Mean Concentration	Average Waste Loading
ECA Limits	25	37.5	25	37.5	1.0	0.75
ECA Objectives	15	Not Applicable	15	Not Applicable	0.5	Not Applicable
Month	mg/L	kg/d	mg/L	kg/d	mg/L	kg/d
January	4.25	2.61	5.00	3.07	0.07	0.04
February	4.25	1.87	3.50	1.54	0.08	0.04
March	4.50	6.18	8.25	11.34	0.15	0.21
April	4.14	5.11	5.71	7.04	0.08	0.10
May	< 4.00	5.92	5.00	7.40	0.12	0.18
June	< 4.00	2.90	3.43	2.49	0.15	0.11
July	< 4.00	2.17	2.75	1.49	0.15	0.08
August	< 4.00	1.93	3.00	1.44	0.18	0.08
September	4.20	1.35	2.40	0.77	0.13	0.04
October	4.50	1.48	2.25	0.74	0.18	0.06
November	< 4.00	1.87	3.00	1.40	0.05	0.02
December	4.40	3.19	3.00	2.18	0.04	0.03

Note: Schedule B&C of Environmental Compliance Approval Number 0003-CGGME6 indicates average loading, concentration limits and objectives for compliance assessment of carbonaceous biochemical oxygen demand, total suspended solids and total phosphorus against results achieved.

Table1b: Escherichia coli and pH Effluent Quality Assessment

Parameters	E. coli	pH	
	Monthly Mean Geometric Density	Monthly Mean Result	
Limits	200	6.0	9.5
Objective	150	6.5	8.5
Month	MPN/100mL	Min	Max
January	13.66	7.48	7.90
February	10.19	6.60	7.00
March	19.56	7.14	7.40
April	3.17	6.90	7.43
May	9.87	7.07	7.14
June	48.81	6.64	7.33
July	36.98	6.77	7.07
August	26.73	6.90	7.16
September	0.43	6.54	7.01
October	0.81	6.74	7.23
November	0.15	6.40	6.51
December	1.06	6.54	7.79

Note: Schedule B&C of Environmental Compliance Approval Number 0003-CGGME6 indicates annual average concentration limits and objectives for compliance assessment of geometric mean density of *E. coli* and pH against results achieved. November minimum pH value exceeds the design objectives listed. There were no other design limits or objective exceedances.

Table 1c: Dechlorination Data

Parameter	Maximum Total Chlorine Residual
ECA Limit	0.02
ECA Objective	Non-detectable
Month	mg/L
January	Using Ozone Disinfection
February	Using Ozone Disinfection
March	Using Ozone Disinfection
April	Using Ozone Disinfection
May	Using Ozone Disinfection
June	Using Ozone Disinfection
July	Using Ozone Disinfection
August	Using Ozone Disinfection
September	Using Ozone Disinfection
October	Using Ozone Disinfection
November	Using Ozone Disinfection
December	Using Ozone Disinfection

Note: Schedule B&C dechlorination values are required for compliance assessment in events wherein sodium hypochlorite is applied to support disinfection and/or there is an interruption to ozone disinfection. Ozone disinfection was continuous throughout the reporting period; sodium hypochlorite was not utilized therefore dechlorination was not required.

Table 2: Effluent Quality Operational Monitoring Data

Month	Biochemical Oxygen Demand	Total Ammonia Nitrogen	Unionized Ammonia	Total Kjeldahl Nitrogen	Unionized Ammonia @ 15°C	Nitrite	Nitrate	Temperature
	Monthly Individual Concentration	Monthly Mean Concentration						
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C
January	8	0.85	0.007	1.73	0.005	0.25	21.03	8.68
February	7	0.16	0.001	0.60	< 0.001	0.08	25.73	8.90
March	5	0.10	0.001	0.53	< 0.001	0.03	14.95	9.03
April	< 4	0.60	0.002	1.16	0.006	0.05	12.05	10.40
May	< 4	0.35	0.002	1.00	0.004	0.12	13.43	12.85
June	4	0.74	0.002	1.34	0.004	0.48	14.89	18.63
July	7	2.48	0.006	3.08	0.013	0.91	3.18	21.73
August	12	13.85	0.028	13.85	0.062	0.29	4.79	19.78
September	14	2.88	0.006	3.44	0.013	0.26	12.91	21.02
October	20	9.83	0.014	10.35	0.031	0.70	11.28	18.70
November	12	0.63	0.001	1.10	0.002	0.16	21.38	13.05
December	< 4	0.16	0.002	0.54	< 0.001	0.03	25.34	10.58

Note: Effluent monitoring samples are collected in addition to those required by Environmental Compliance Approval, F-10-1 Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only) and Wastewater System Effluent Regulations for operational efficiency determination and effluent quality monitoring.

Table 3: Influent Quality Monitoring Data

Month	Biochemical Oxygen Demand	Carbonaceous Biochemical Oxygen Demand	Total Suspended Solids	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L
January	134.50	104.00	94.75	28.28	2.98
February	142.50	126.25	74.75	32.03	3.50
March	63.00	69.67	61.75	13.13	1.38
April	77.20	53.40	43.80	12.58	1.32
May	60.50	45.25	41.25	12.48	1.20
June	174.20	137.80	97.40	29.30	3.36
July	271.25	188.25	106.00	40.60	4.48
August	271.00	245.25	133.50	43.50	4.87
September	226.00	182.80	109.60	44.48	5.22
October	231.00	213.75	113.50	42.85	4.79
November	125.00	85.25	72.25	29.48	3.05
December	97.60	81.40	48.00	24.24	2.43

Note: Influent monitoring samples are collected as per the Environmental Compliance Approval and F-10-1 Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only) to determine treatment efficiency.

Interpretation of Influent and Effluent Monitoring Data

Condition 11.4(a) and (b) - (ECA No. 0003-CGGME6)

Note: Results reported as “< value” are the laboratory detection limits used to plot the graph

Carbonaceous Biochemical Oxygen Demand (CBOD)

Influent

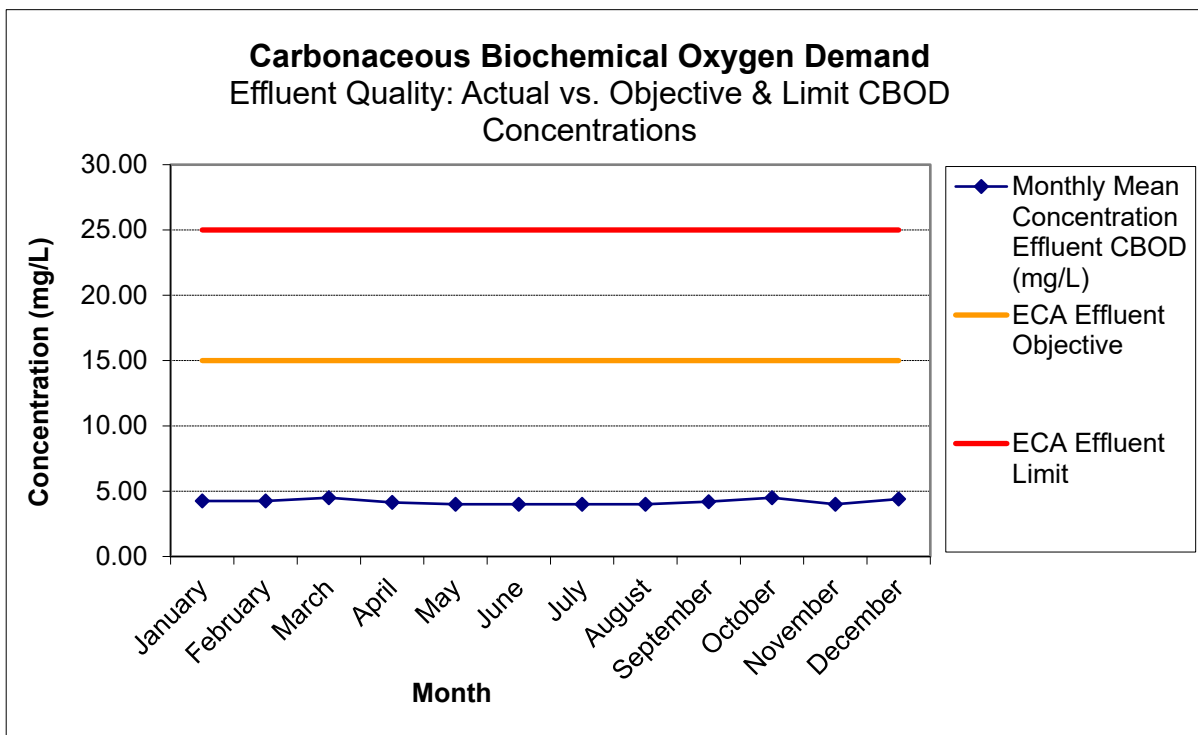
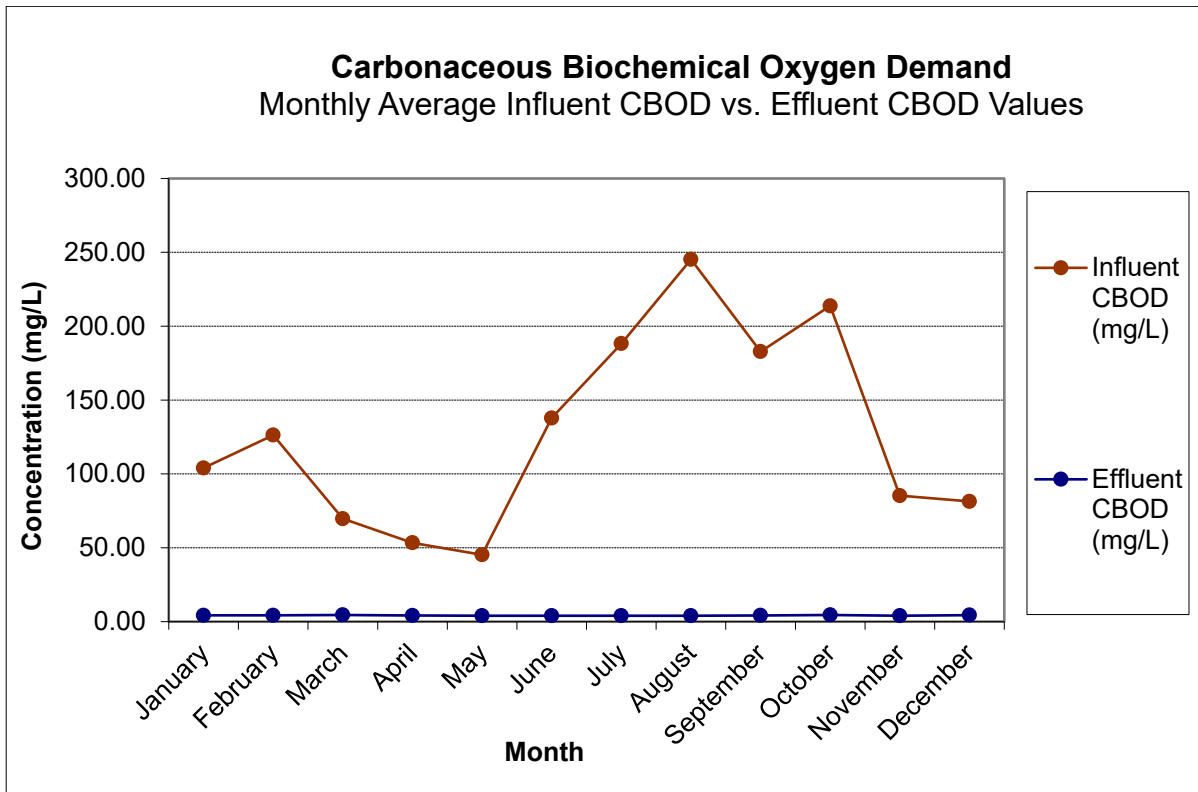
Sampling Frequency: Monthly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: N/A, monitoring only

Effluent

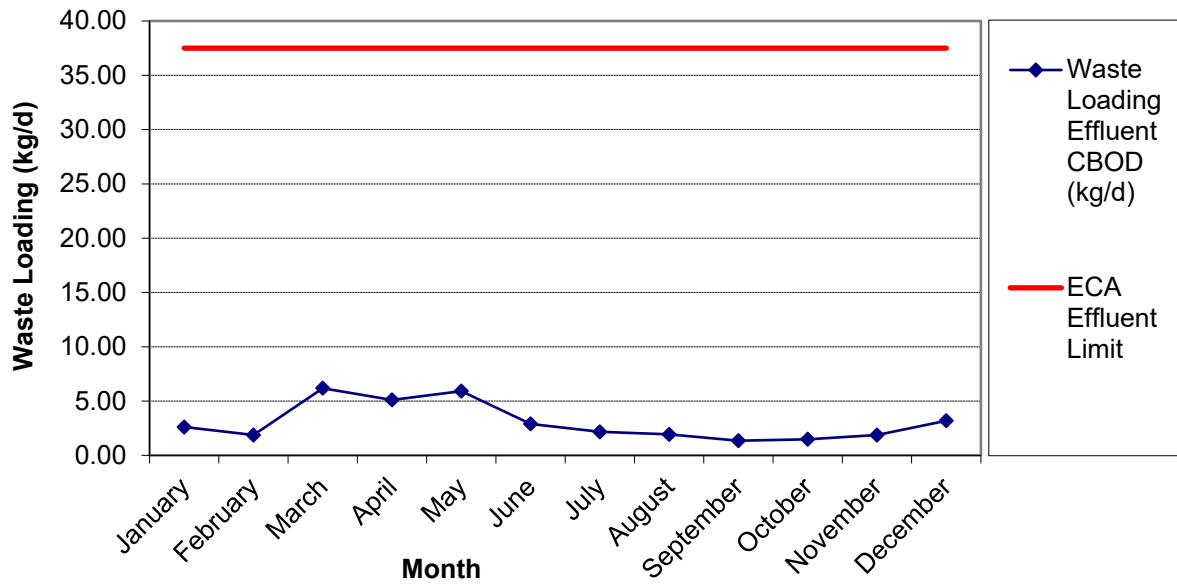
Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 15mg/L
 Compliance Limit Concentration: 25mg/L
 Compliance Limit Loading: 37.5kg/d
 Compliance Limit Exceedance: No

Table 4: Carbonaceous Biochemical Oxygen Demand Percent Removal Values

Month	Influent Carbonaceous Biochemical Oxygen Demand	Effluent Carbonaceous Biochemical Oxygen Demand	Percent Removal Carbonaceous Biochemical Oxygen Demand
	Monthly Mean Concentration		%
	mg/L	mg/L	
January	104.00	4.25	95.913
February	126.25	4.25	96.634
March	69.67	4.50	93.541
April	53.40	4.14	92.247
May	45.25	< 4.00	91.160
June	137.80	< 4.00	97.097
July	188.25	< 4.00	97.875
August	245.25	< 4.00	98.369
September	182.80	4.20	97.702
October	213.75	4.50	97.895
November	85.25	< 4.00	95.308
December	81.40	4.40	94.595



Carbonaceous Biochemical Oxygen Demand Actual CBOD Waste Loading vs. Limit Waste Loading



Total Suspended Solids (TSS)

Influent

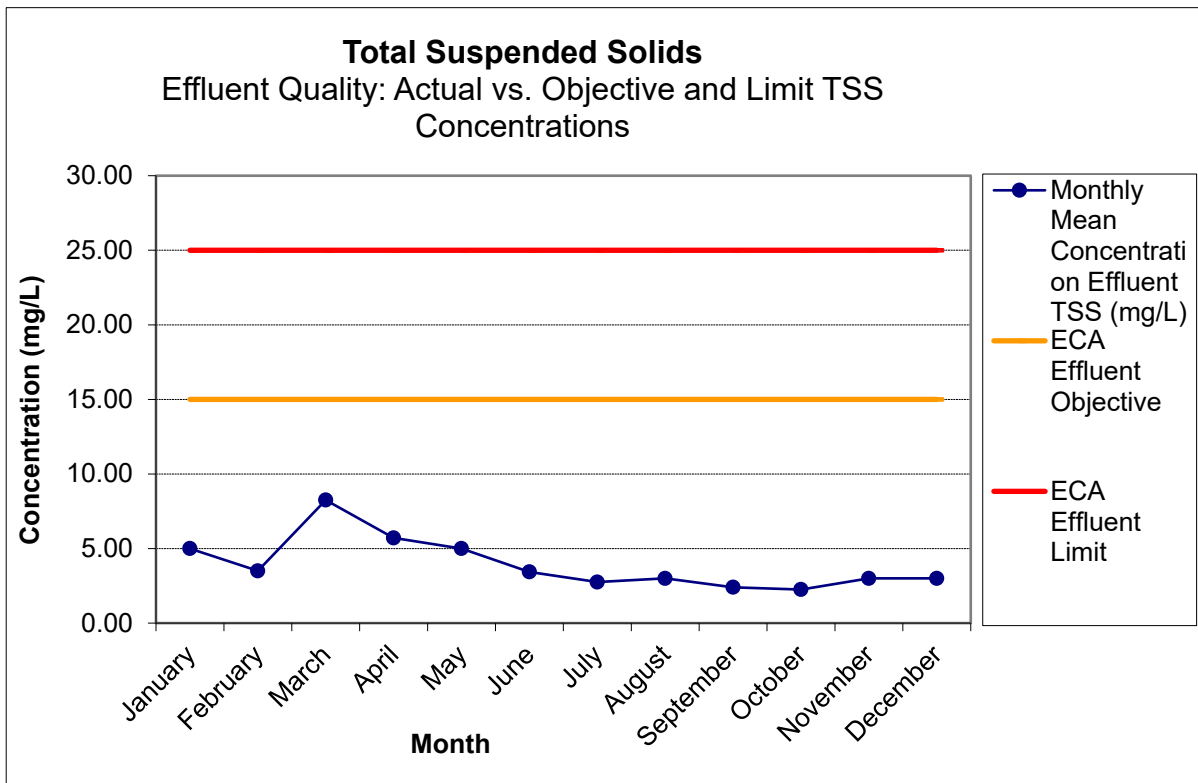
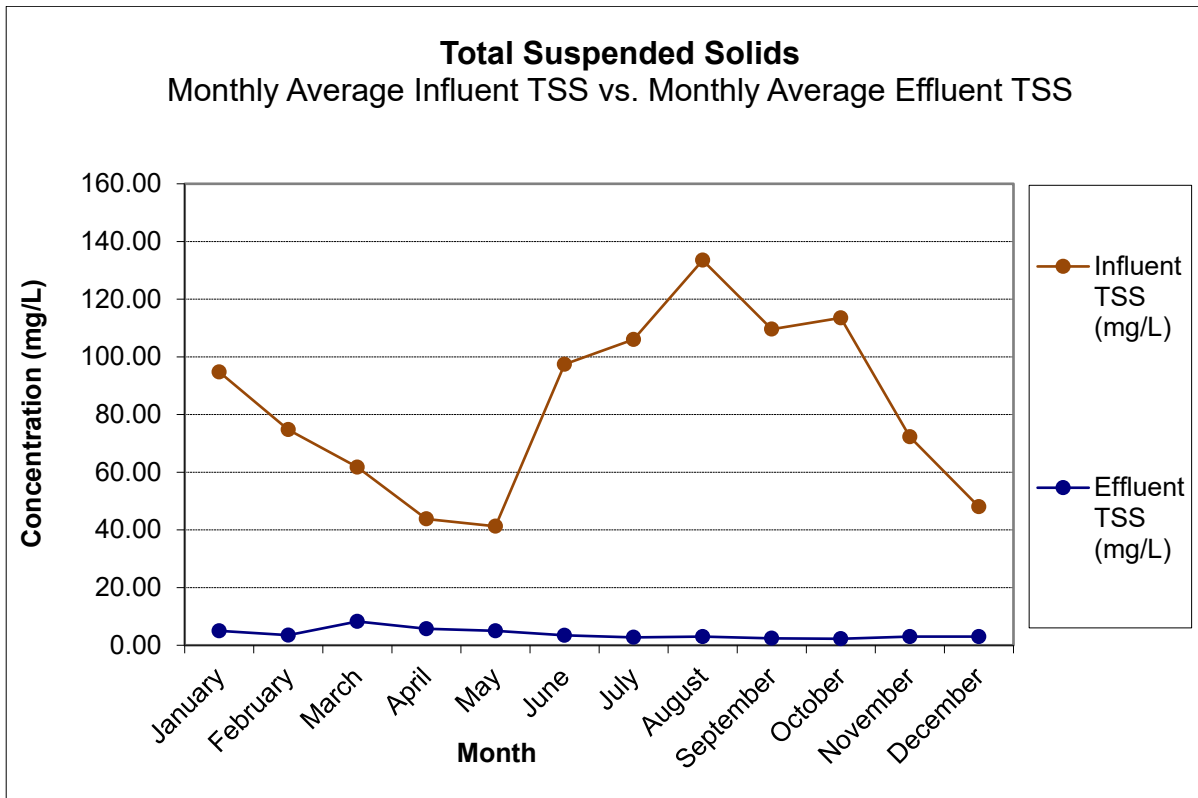
Sampling Frequency: Monthly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Monthly

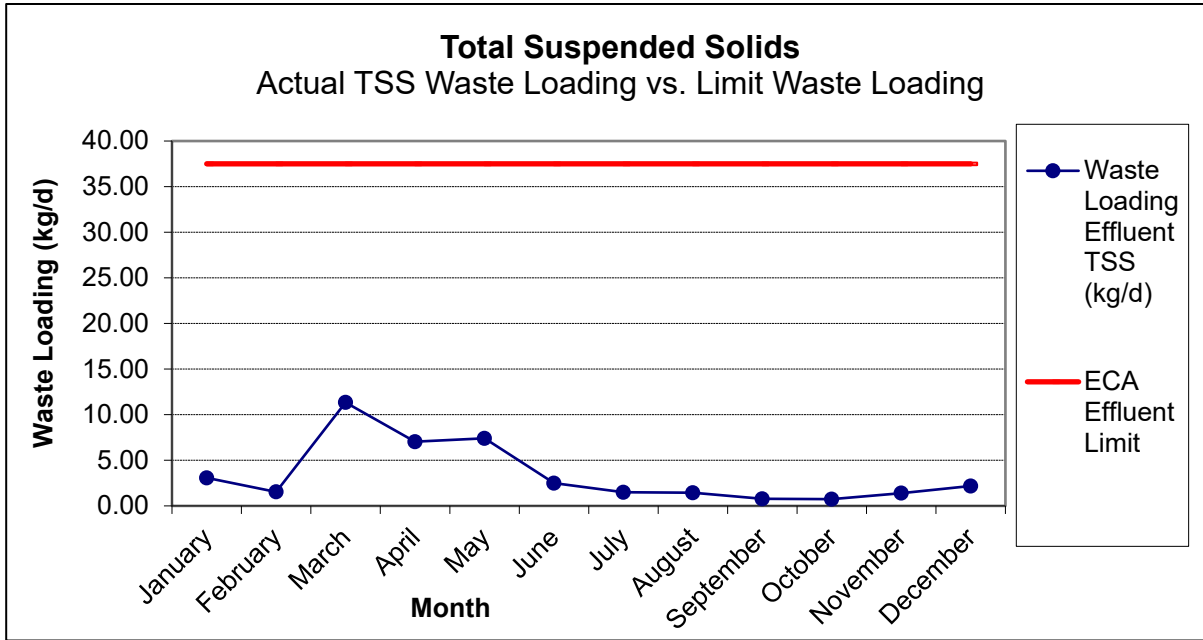
Effluent

Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 15mg/L
 Compliance Limit Monthly Average Concentration: 25mg/L
 Compliance Limit Monthly Average Daily Waste Loading: 37.5kg/d
 Compliance Limit Exceedance: No

Table 5: Total Suspended Solids Percent Removal Values

Month	Influent Total Suspended Solids	Effluent Total Suspended Solids	Percent Removal Total Suspended Solids
	Monthly Mean Concentration		%
	mg/L	mg/L	
January	94.75	5.00	94.723
February	74.75	3.50	95.318
March	61.75	8.25	86.640
April	43.80	5.71	86.963
May	41.25	5.00	87.879
June	97.40	3.43	96.478
July	106.00	2.75	97.406
August	133.50	3.00	97.753
September	109.60	2.40	97.810
October	113.50	2.25	98.018
November	72.25	3.00	95.848
December	48.00	3.00	93.750





Total Phosphorus (TP)

Influent

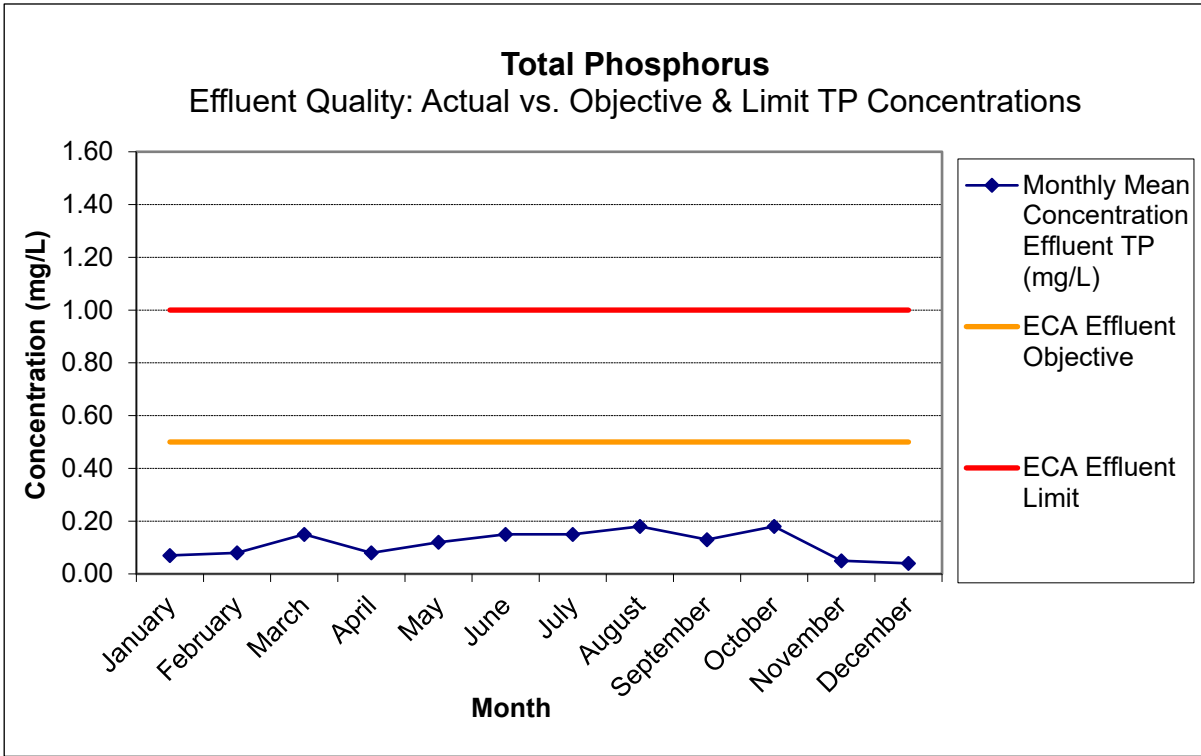
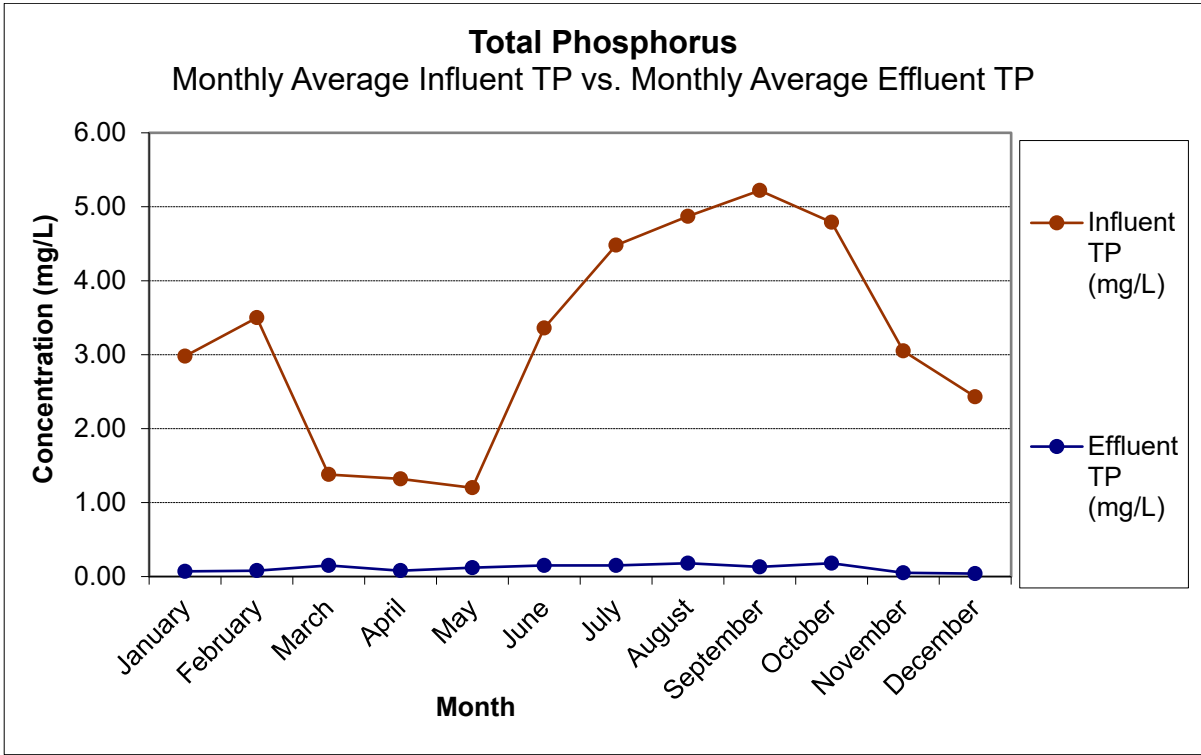
Sampling Frequency: Monthly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Monthly

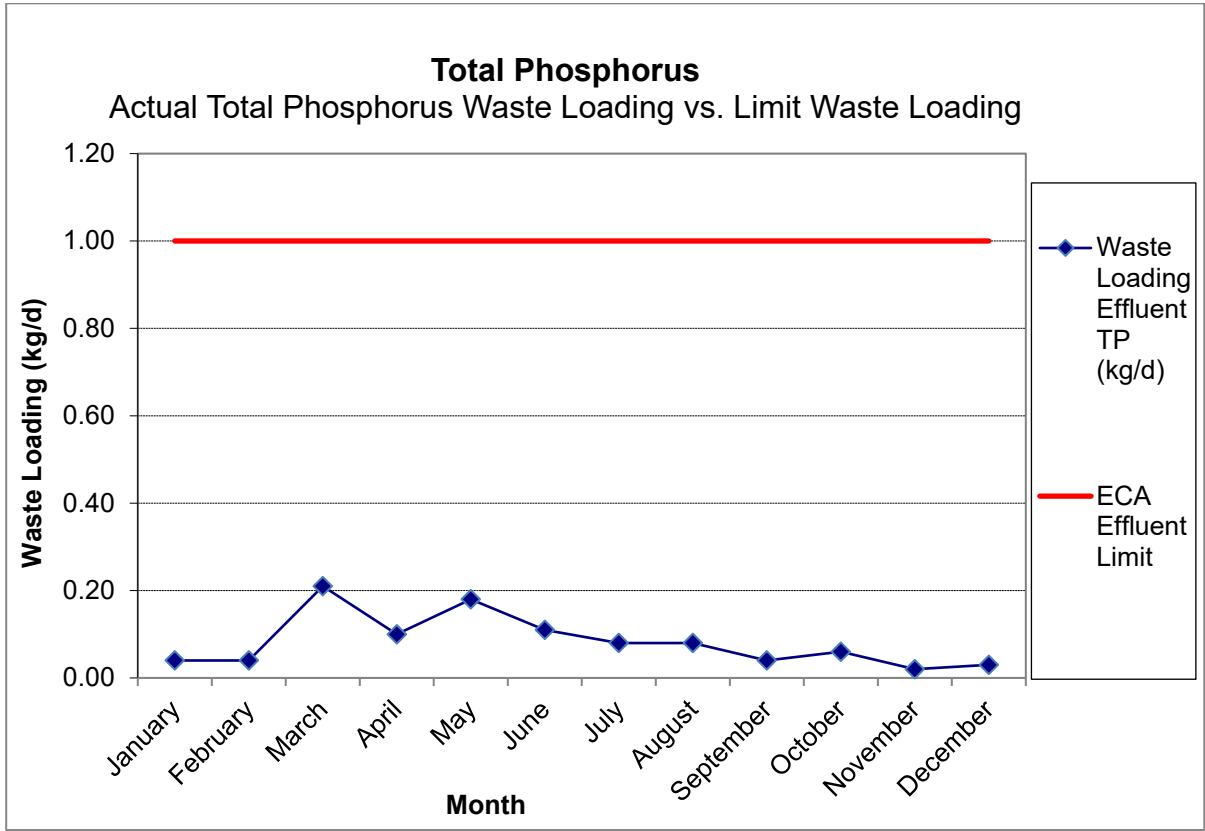
Effluent

Sampling Frequency: Weekly
 Sample Type: Composite
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 0.5mg/L
 Compliance Limit Concentration: 1.0mg/L
 Compliance Limit Loading: 0.75kg/d
 Compliance Limit Exceedance: No

Table 6: Total Phosphorus Percent Removal Values

Month	Influent Total Phosphorus	Effluent Total Phosphorus	Percent Removal Total Phosphorus
	Monthly Mean Concentration		%
	mg/L	mg/L	
January	2.98	0.07	97.65
February	3.50	0.08	97.71
March	1.38	0.15	89.13
April	1.32	0.08	93.94
May	1.20	0.12	90.00
June	3.36	0.15	95.54
July	4.48	0.15	96.65
August	4.87	0.18	96.30
September	5.22	0.13	97.51
October	4.79	0.18	96.24
November	3.05	0.05	98.36
December	2.43	0.04	98.35





pH

Influent

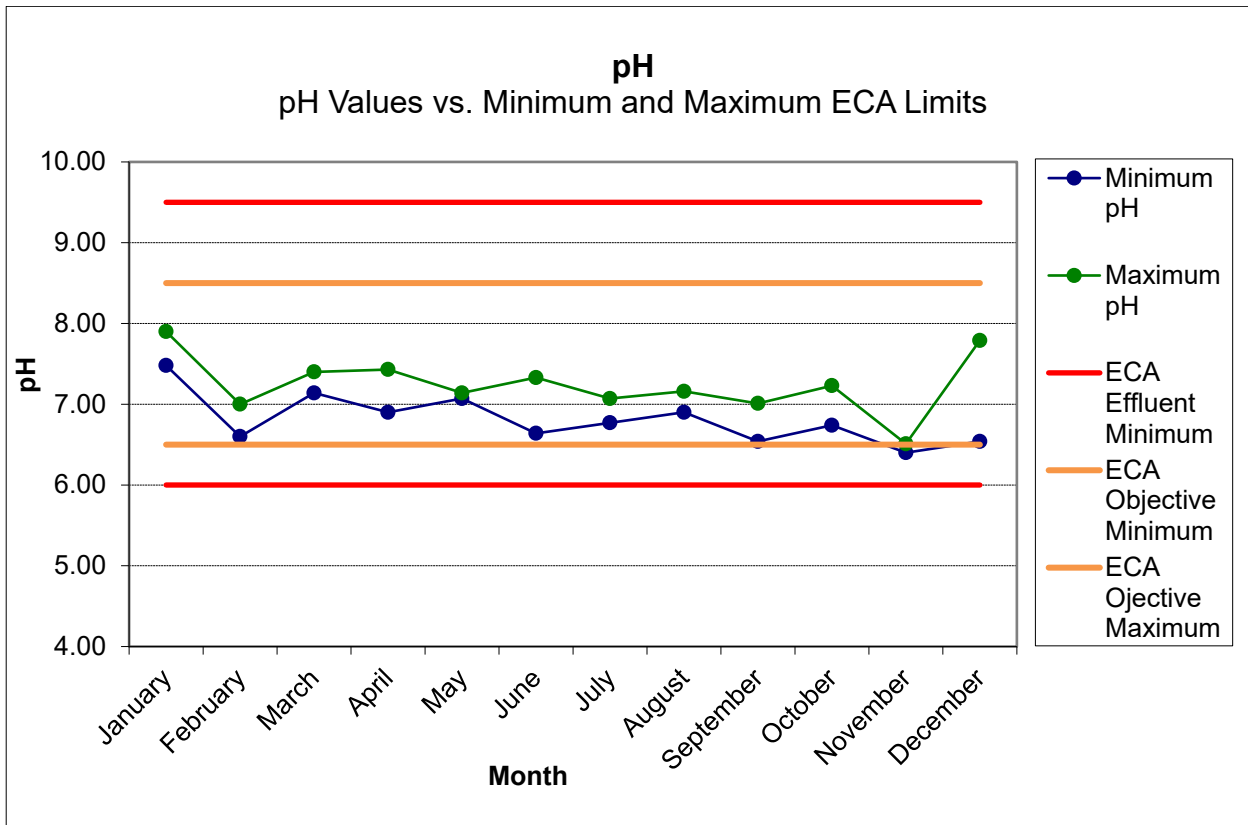
Sampling Frequency: Weekly (minimum)
Sample Type: Grab
Environmental Compliance Approval Requirement: N/A

Effluent

Sampling Frequency: Weekly (minimum)
Sample Type: Grab
Environmental Compliance Approval Requirement: Weekly
Compliance Objective: Range 6.5 - 8.5
Compliance Limit: Range 6.0 - 9.5
Compliance Limit Exceedance: No

Table 7: pH Minimum and Maximum Values

Month	Minimum pH	Maximum pH
January	7.48	7.90
February	6.60	7.00
March	7.14	7.40
April	6.90	7.43
May	7.07	7.14
June	6.64	7.33
July	6.77	7.07
August	6.90	7.16
September	6.54	7.01
October	6.74	7.23
November	6.40	6.51
December	6.54	7.79



Disinfection: *Escherichia coli* (E. coli) Geometric Mean Density

Influent

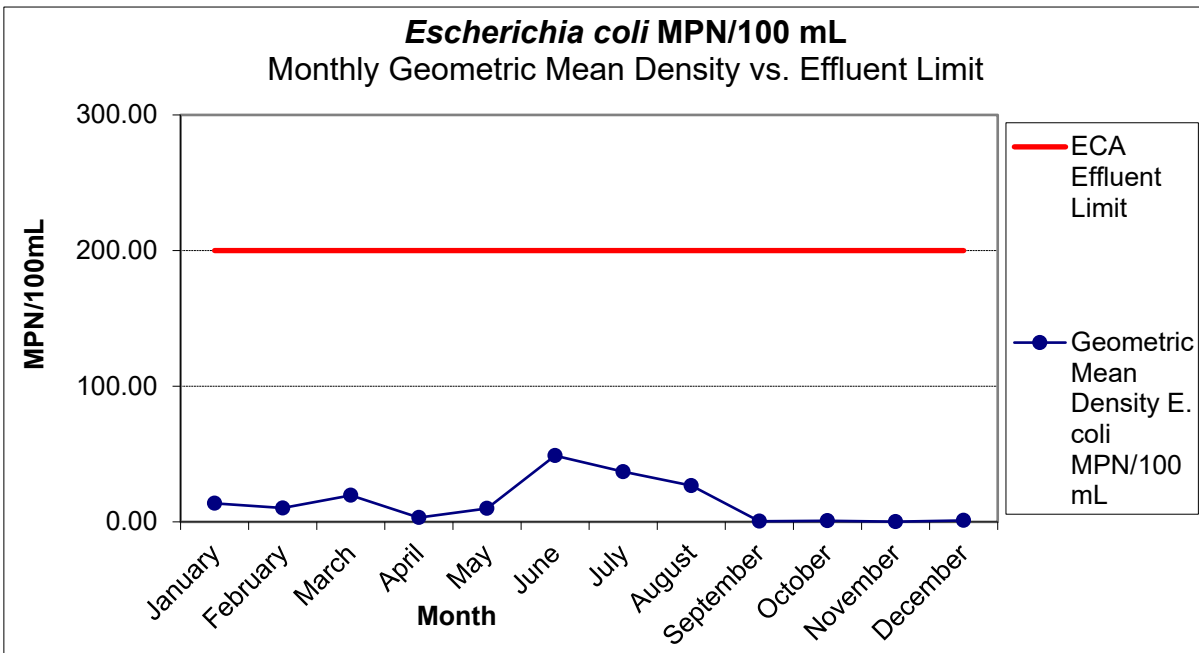
Sampling Frequency: N/A
 Environmental Compliance Approval Requirement: N/A

Effluent

Sampling Frequency: Weekly
 Sample Type: Grab
 Environmental Compliance Approval Requirement: Weekly
 Compliance Objective: 200MPN/100mL Geometric Mean Density
 Compliance Limit: 200MPN/100mL Geometric Mean Density
 Compliance Limit Exceedance: No

Table 8: *Escherichia coli* Geometric Mean Density Values

Month	Geometric Mean Density	ECA Effluent Limit
	MPN/100mL	MPN/100mL
January	13.66	200
February	10.19	200
March	19.56	200
April	3.17	200
May	9.87	200
June	48.81	200
July	36.98	200
August	26.73	200
September	0.43	200
October	0.81	200
November	0.15	200
December	1.06	200



Nitrogen Removal

Total Ammonia Nitrogen (TAN)

Influent

Sampling Frequency: N/A
Sample Type: N/A
Environmental Compliance Approval Requirement: N/A

Effluent

Sampling Frequency: Weekly
Sample Type: Composite
Environmental Compliance Approval Requirement: Weekly
Compliance Objective: N/A
Compliance Limit: N/A
Compliance Limit Exceedance: N/A

Unionized Ammonia

Influent

Sampling Frequency: N/A
Sample Type: N/A
Environmental Compliance Approval Requirement: N/A

Effluent

Sampling Frequency: Weekly (Calculation)
Sample Type: Calculation
Environmental Compliance Approval Requirement: Weekly (Calculation)
Compliance Objective: N/A
Compliance Limit: N/A
Compliance Limit Exceedance: N/A

Unionized Ammonia @ 15°C

Influent

Sampling Frequency: Weekly
Certificate of Approval Requirement: N/A

Effluent

Sampling Frequency: Weekly
Environmental Compliance Approval Requirement: N/A
Required by Wastewater Systems Effluent Regulation
Compliance Objective: N/A
Compliance Limit: N/A
Compliance Limit Exceedance: N/A

Total Kjeldahl Nitrogen (TKN)

Influent

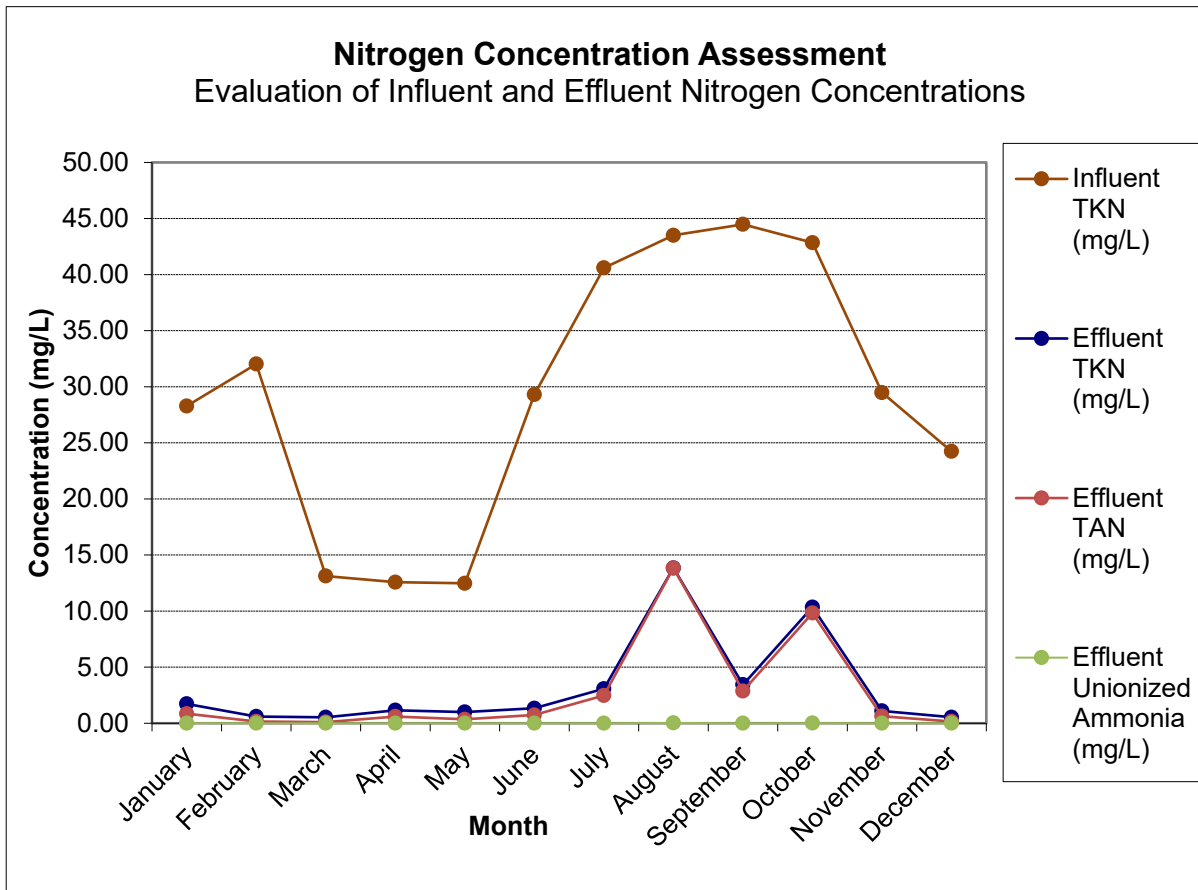
Sampling Frequency: Monthly
Sample Type: Composite
Environmental Compliance Approval Requirement: Monthly

Effluent

Sampling Frequency: Weekly
Sample Type: Composite
Environmental Compliance Approval Requirement: N/A
Compliance Objective: N/A
Compliance Limit: N/A
Compliance Limit Exceedance: N/A

Table 9: Nitrogen Concentration Assessment Values

Month	Influent Total Kjeldahl Nitrogen	Effluent Total Kjeldahl Nitrogen	Percent Removal Total Kjeldahl Nitrogen	Effluent Total Ammonia Nitrogen	Effluent Unionized Ammonia
	Monthly Mean Concentration				
	mg/L	mg/L	%	mg/L	mg/L
January	28.28	1.73	93.88	0.85	0.007
February	32.03	0.60	98.13	0.16	0.001
March	13.13	0.53	95.96	0.10	0.001
April	12.58	1.16	90.78	0.60	0.002
May	12.48	1.00	91.99	0.35	0.002
June	29.30	1.34	95.43	0.74	0.002
July	40.60	3.08	92.41	2.48	0.006
August	43.50	13.85	68.16	13.85	0.028
September	44.48	3.44	92.27	2.88	0.006
October	42.85	10.35	75.85	9.83	0.014
November	29.48	1.10	96.27	0.63	0.001
December	24.24	0.54	97.77	0.16	0.002



Capacity Assessment: Influent and Effluent Quantities

Condition 11.4(a) and (b) - (ECA No. 0003-CGGME6)

Table 10: Influent Quantity Flow Data

Month	Approved Capacity (Rated Capacity) ¹	Monthly Average	Approved Capacity (Peak Daily Flow Rate) ²	Peak Daily Flow Rate
	m ³ /day	m ³ /day	m ³ /day	m ³ /day
January	1500	723.22	4550	1176.67
February	1500	518.84	4550	630.52
March	1500	1371.30	4550	2374.31
April	1500	1293.63	4550	2301.32
May	1500	1472.75	4550	2334.80
June	1500	742.33	4550	1277.82
July	1500	568.20	4550	667.67
August	1500	564.85	4550	873.20
September	1500	473.85	4550	576.24
October	1500	506.48	4550	678.79
November	1500	637.29	4550	744.12
December	1500	841.23	4550	1907.49
Annual Average Daily Influent Flow		809.50		

Note¹: As per Environmental Compliance Approval No. 0003-CGGME6, "Rated Capacity" is defined as the Average Daily Flow for which the Works are approved to handle. The Wellington WWTP maintained an average daily flow within approved capacity requirements for the 2025 operational year.

Note²: As per Environmental Compliance Approval No. 0003-CGGME6, "Peak Daily Flow Rate" is defined as the largest volume of flow to be received during a one-day period for which the sewage treatment process unit or equipment is designed to handle. The Wellington WWTP maintained a peak daily flow within approved capacity requirements for the 2025 operational year.

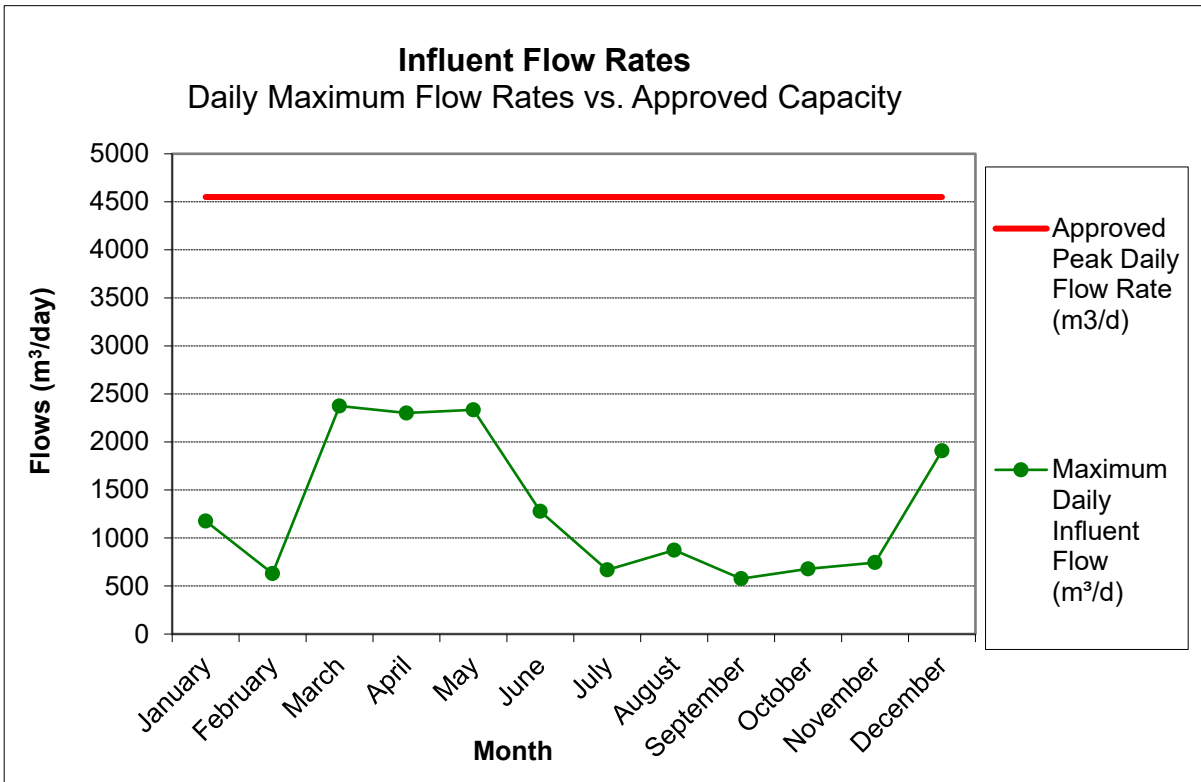
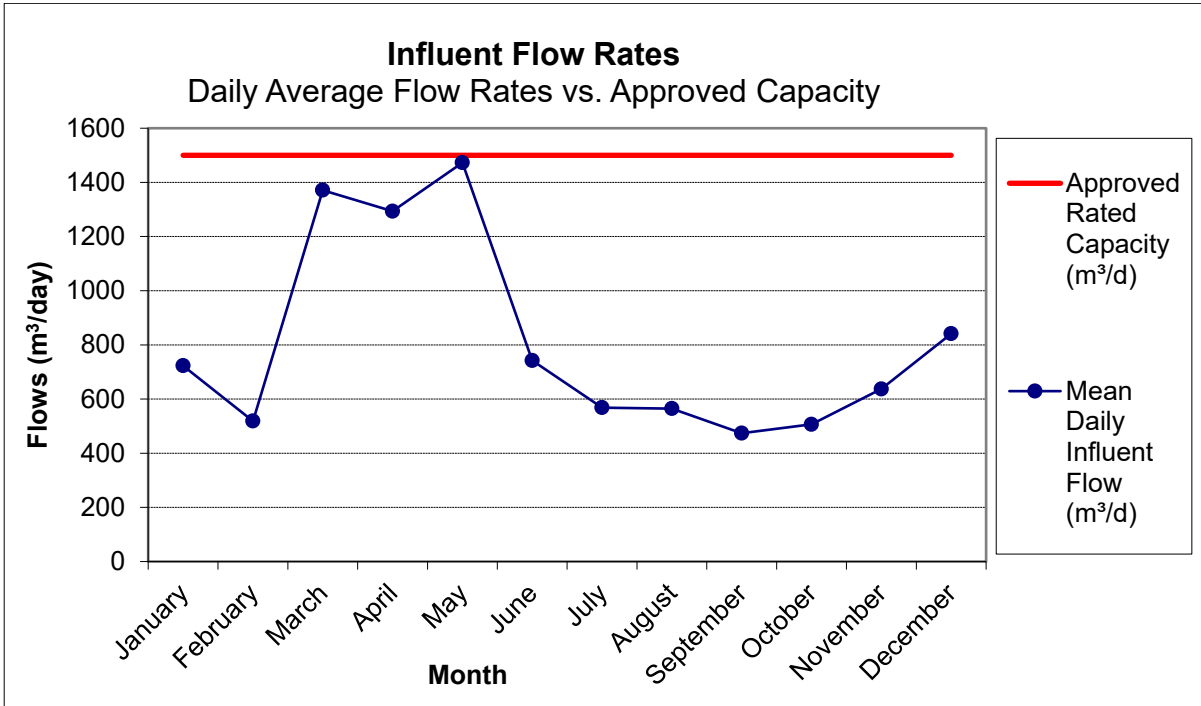


Table 11: Historical Influent Flows

Year	Total Influent Flow	Annual Average Daily Influent Flow	Approved Capacity (Rated Capacity)
	m ³	m ³ /day	m ³ /d
2015	211378.46	579.12	1500
2016	258334.96	705.83	1500
2017	357710.82	980.03	1500
2018	296484.74	823.57	1500
2019	326159.21	893.59	1500
2020	299209.99	817.51	1500
2021	285158.43	781.26	1500
2022	306507.81	839.75	1500
2023	334367.12	916.07	1500
2024	283767.72	775.32	1500
2025	296429.45	812.14	1500

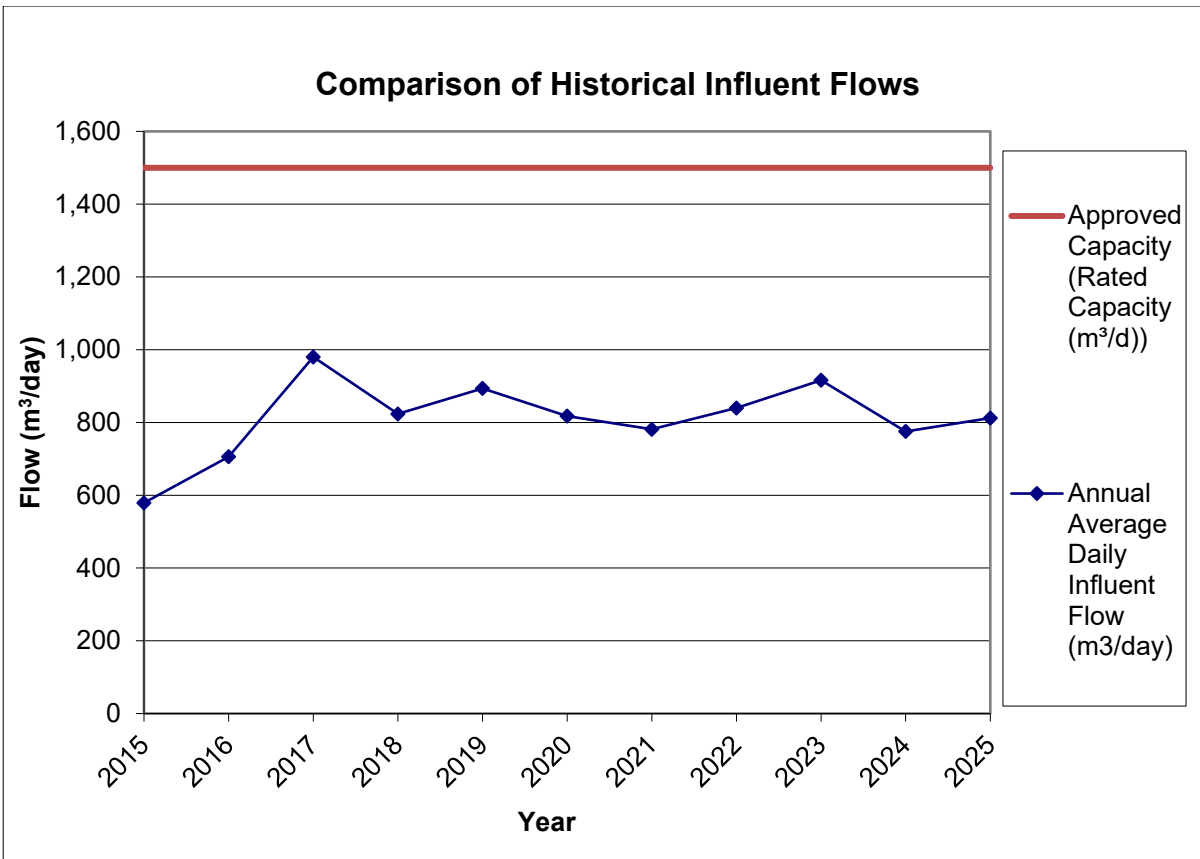
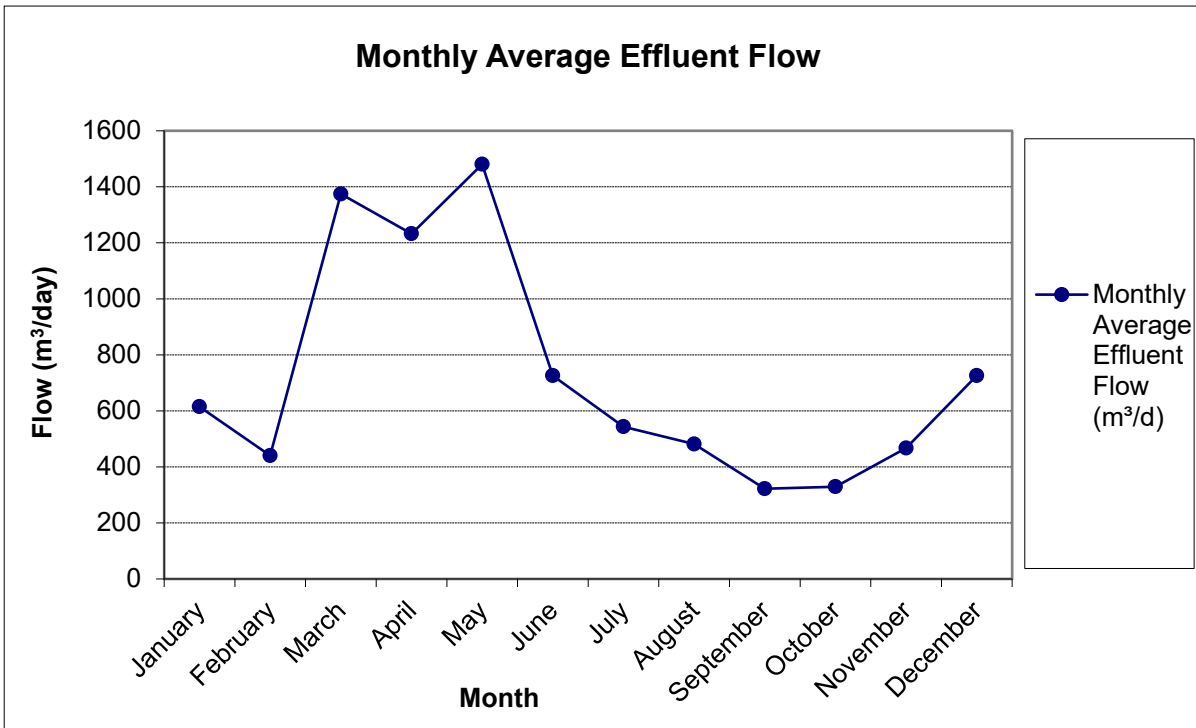


Table 12: Effluent Quantity Flow Data

Month	Monthly Average	Total Effluent Flow
	m ³ /day	m ³
January	614.89	19061.67
February	440.50	12334.06
March	1374.32	42603.77
April	1232.52	36975.59
May	1480.25	45887.69
June	725.66	21769.67
July	543.58	16850.95
August	481.38	14922.84
September	322.06	9661.87
October	329.17	10204.24
November	467.34	14020.28
December	725.95	22504.43



Operating Problems & Corrective Actions

Condition 11.4(c) - (ECA No. 0003-CGGME6)

Table 13: A description of any operating problems encountered, and corrective actions taken:

Date Discovered	Date Resolved	Affected Equipment or Process	Description of any Operating Problems Encountered	Corrective Actions
January 9, 2026	January 9, 2026	Ozone Disinfection	Ozone generating system failed	Contacted third party for the repairs. Repairs completed.
January 10, 2025	February 5, 2025	Chemical Coagulant Storage Tank	18500 kg of over concentrated Aluminium Sulphate was received from the supplier. Due to overconcentration, it was too thick to pump	The supplier oversaw the removal and cleaning of the product. Proper coagulant provided.
January 21, 2025	January 24, 2025	Ozone Disinfection	Ozone generating system failed	Contacted third party for the repairs. Repairs completed.
February 10, 2025	February 19, 2025	Ozone Disinfection	Ozone Pump Failure	Contacted third party for the repairs. Repairs completed.
February 18, 2025	February 19, 2025	Ozone Disinfection	Ozone generator cooling system failure	Contacted third party for the repairs. Repairs completed.
March 19, 2025	March 26, 2025	Ozone Disinfection	Ozone pump motor failure	Removed motor for repairs.
March 26, 2025	April 1, 2025	Ozone Disinfection	Electrical failure in the ozone system resulted in Ozone gas leak, ozone cooling system failure	Contacted third party for the repairs. Repairs completed.
April 7, 2025	April 8, 2025	Ozone Disinfection	Ozone generator cooling system failure	Contacted third party for the repairs. Repairs completed.
April 15, 2025	April 15, 2025	Ozone Disinfection	Ozone pump failure	Replaced booster pumps with new.
April 22, 2025	April 28, 2025	Ozone Disinfection	Ozone generator cooling system failure	Contacted third party for the repairs. Repairs completed.
May 21, 2025	May 25, 2025	Ozone Disinfection	Ozone Electrical system failure	Contacted third party for the repairs. Repairs completed.
June 4, 2025	June 13, 2025	Ozone Disinfection	Ozone pump failure	Replaced booster pumps with new.
June 12, 2025	June 12, 2025	Ozone Disinfection	Ozone disinfection sensor failure	Contacted third party to replace and calibrate sensors.
June 16, 2025	June 25, 2025	Ozone Disinfection	Ozone disinfection sensor failure	Contacted third party to replace and calibrate sensors.
August 13, 2025	August 14, 2025	Ozone Disinfection	Ozone generating system failed	Contacted third party for the repairs. Repairs completed.
September 9, 2025	September 11, 2025	Ozone Disinfection	Ozone pump failure.	Replaced booster pumps with new.
September 30, 2025	September 30, 2025	Ozone Disinfection	Ozone generating system failed	Contacted third party for the repairs. Repairs completed.
October 1, 2025	October 1, 2025	Ozone Disinfection	Ozone generating system failed	Contacted third party for the repairs. Repairs completed.
October 28, 2025	October 31, 2025	Ozone Disinfection	Multiple failures in compressor airlines.	Contacted third party to repair compressor system.

Note: As a result of ongoing operational problems and failures, in early 2026, ozone disinfection was discontinued. Disinfection process was reverted to sodium hypochlorite (chlorine) disinfection, paired with dichlorination prior to final effluent discharge.

Maintenance Summary

Condition 11.4(d) - (ECA No. 0003-CGGME6)

Summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the works:

Routine preventative maintenance performed throughout the reporting period:

Collection System: Pumping Stations

- Annual electrical work orders, as needed
- Annual Health and Safety equipment work-orders (fire extinguishers, lifting devices, gas detection equipment, etc.)
- Annual wet well cleaning, inspection and maintenance
- Annual equipment maintenance, calibrations and inspections (generators, flow meters, et. al.)
- Annual sewer main flushing

Treatment System: Wellington Wastewater Treatment Plant

- Annual electrical work-orders, as needed
- Annual Health and Safety equipment work-orders (fire extinguishers, lifting devices, gas detection equipment, etc.)
- Annual equipment maintenance, calibrations and inspections (blowers, flow meters, laboratory equipment, et. al.)
- Monthly equipment maintenance and inspections (wet well inspections, ozone disinfection equipment inspections, headworks equipment inspections, et. al.)
- Required cleaning and inspection of tanks (as necessary)
- Annual lifting device inspections
- Annual outfall inspection
- Annual contact chamber cleanout
- Annual digester cleanout
- Annual east and west storage tank cleanout
- Ozone Disinfection System - biannual preventative maintenance
- Biosolids removal
- Biannual Ozone maintenance

Table 14: Additional Maintenance

System	Date Started	Date Completed	Equipment/Process	Description of Maintenance and Outcomes
SWT	March 17, 2025	March 18, 2025	Pump Station 3 Wet Well	Raw sewage pump 3 failure. Removed pump from wet well and found construction debris in the impeller. Cleaned debris from the pump and returned to service.
SWT	March 18, 2025	March 19, 2025	Pump Station 3 Wet Well	Raw sewage pump 1 failure. Removed pump from wet well and found construction debris in the impeller. The impeller was broken and replaced with spare.
SWT	September 18, 2025	September 18, 2025	Coagulant Chemical Pumps	Replaced multiple chemical panel parts. New pressure relief valves, all new chemical pump suction lines, chemical pump discharge lines.
SWT	September 25, 2025	September 25, 2025	Headworks	Replaced all galvanized air lines in west headworks due to end of life.
SWT	October 24, 2025	November 6, 2025	Disinfection	Replaced all dechlorination lines for backup emergency purposes.

SWT	November 27, 2025	November 27, 2025	Headworks	Replaced all galvanized air lines in west headworks due to end of life.
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Effluent Quality Assurance and Control Measures

Condition 11.4 (e) - (ECA No. 0003-CGGME6)

Quality Assurance

The Wellington Wastewater Treatment Plant implements quality assurance strategies to ensure consistent compliance with regulatory and operational standards. Quality assurance focuses on preventing issues before they occur by establishing structured procedures, staff training, and maintenance programs. The plant follows manufacturer-recommended calibration and maintenance schedules, completes sampling beyond the required parameters, and operates according to the engineering recommendations and standard operating procedures. These proactive measures help uphold operational efficiency and ensure effluent quality through process control.

Quality Control

The Wellington Wastewater Treatment Plant applies quality control measures to ensure that treated effluent consistently meets regulatory and operational standards. Quality control focuses on detecting and correcting issues through regular sampling, testing, and system checks. Effluent quality is monitored against compliance limits. Any deviations require root cause analysis and trigger corrective actions.

Effluent analysis for all compliance and monitoring parameters under Environmental Compliance Approval No. 0003-CGGME6 are conducted by accredited laboratories, SGS Lakefield and SGS London, with Caduceon Environmental Laboratories as a secondary backup. Sample collection and in-house analysis are performed by licensed wastewater operators.

Sampling follows required frequencies and defined methods and referenced against to compliance design limits and objectives. Additional samples are taken during bypasses, overflows, or abnormal conditions. Beyond regulatory requirements, additional in-house and laboratory samples assess treatment effectiveness and determination of removal efficiencies. Ongoing evaluation of non-regulated monitoring samples support effluent quality control and process optimization.

Third-party calibration of flow meters, routine equipment checks, and SCADA alarm monitoring further support process reliability. By continuously analyzing performance data and making necessary adjustments, the plant maintains high treatment efficiency and protects the receiving environment.

Influent and Effluent Monitoring Equipment Maintenance and Calibration

Condition 11.4 (f) - (ECA No. 0003-CGGME6)

All monitoring equipment is calibrated and maintained according to the manufacturer's recommendations. Calibrations are scheduled through a preventative maintenance database, which tracks due dates and logs completed work.

Licensed operators perform routine maintenance, while flow measuring devices at the Wellington Wastewater Treatment Facility undergo annual calibration by a certified third-party service provider. Other operational equipment is submitted for third-party review as needed.

Table 15: Flow Measuring Equipment Calibrations carried out in the reporting period

Equipment Location	Description	Calibrated By	Calibration Date
Wellington WWTP	Influent North Channel (FIT 201A)	Tower Electronics Canada Ltd.	July 22, 2025
	Influent South Channel (FIT 201B)		July 22, 2025
	Final Effluent (FIT 202)		July 22, 2025

Design Objectives Assessment

Condition 11.4 (g) - (ECA No. 0003-CGGME6)

As per ECA No. 0003-CGGME6, the Owner shall design and undertake everything practicable to operate the Sewage Treatment Plant in accordance with the following objectives:

- i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;*
- ii. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;*

The Wellington Wastewater Treatment Plant is operated and maintained to meet its design objectives by adhering to regulatory requirements, implementing proactive maintenance and calibration programs, conducting comprehensive monitoring, and continuously optimizing treatment processes. Individual statements of compliance with design limits and objectives are noted within the monitoring data assessments. The following is the summary of process parameter where in the design objective was not met:

Table 16: Design Objective Exceedance

Parameter	Design Objective as per ECA	Monthly Mean Result	Month	Root Cause	Corrective Action
pH	6.5-8.5	Minimum pH 6.4	November 2025	pH analyzer found be faulty	Faulty pH analyzer was replaced

- While the annual average daily influent flow remained within the rated capacity, there were 26 daily events of rated capacity exceedance.
- There are no circumstances in which any of the design objectives were not achieved for more than 50% of the time and there appears to be no increasing trend in deterioration of final effluent quality against previous years. Although the annual average daily influent flow remains below 80% of the rated capacity, significant development in the Wellington service area is anticipated. In response, plans for operational expansion are in progress to accommodate future growth and ensure continued compliance with design objectives.
- The annual average daily influent flow remains below 80% of the rated capacity. Average daily rated capacity exceedance events are listed below in Table 17.

Table 17: Average daily rated capacity exceedance events

No.	Date	Average Daily Flow m ³ /day
1	March 7, 2025	1735.461
2	March 10, 2025	1520.91
3	March 11, 2025	1787.39
4	March 12, 2025	1617.73
5	March 15, 2025	1649.45
6	March 16, 2025	1890.50
7	March 17, 2025	1769.32
8	March 30, 2025	1877.73
9	March 31, 2025	2374.31
10	April 1, 2025	1744.94
11	April 2, 2025	1685.32
12	April 3, 2025	2301.32
13	April 4, 2025	1976.71
14	April 5, 2025	1814.52
15	April 6, 2025	1584.11
16	April 10, 2025	1607.87
17	May 3, 2025	1622.73
18	May 4, 2025	1669.66
19	May 7, 2025	2334.80
20	May 8, 2025	2185.11
21	May 9, 2025	1994.13
22	May 10, 2025	1723.86
23	May 23, 2025	1876.30
24	May 24, 2025	2153.37
25	May 25, 2025	1949.95
26	May 26, 2025	1669.84

Biosolids Management

Condition 11.4 (h) - (ECA No. 0003-CGGME6)

All sludge generated during 2025 was land applied in Prince Edward County by GFL Environmental Inc. The sludge volumes can be assessed as listed below:

Table 18: Biosolids Management Quantities for Wellington Wastewater Treatment Plant

Date	NASM	Farmer/ Landowner	Township	Ward	Total Volume
	#				m ³
September 16-19, 2025	62881	Bay Breeze Farms	Prince Edward	Ameliasburgh	1520
Total					1520

For 2026, biosolids will go to tender for land application. The disposal will occur at approved site(s) within the boundaries of Prince Edward County. It is expected that the volume of sludge generated will be comparable to 2025 volumes.

Complaints and Customer Concerns

Condition 11.4 (i) - (ECA No. 0003-CGGME6),

Customer complaints and associated corrective actions are outlined as follows:

Table 19: Customer complaints and associated corrective actions are outlined as follows:

Date	Nature of Complaint	Description of Complaint	Action Taken
No Customer complaints were received regarding Wellington Wastewater Treatment Plant in 2025. Complaints and Customer Concerns associated with the Wellington Wastewater Collection System can be found in the CLI-ECA Performance Report.			

Event Summary

Condition 11.4(j) - (ECA No. 0003-CGGME6)

Table 20: Event Summary

Date Discovered	Date Resolved	Affected Equipment or Process	Description of any Operating Problems Encountered	Corrective Actions
April 9, 2025	April 9, 2025	Disinfection Process	Ozone system failure due to compressor faults for >10 minutes.	Worked with the equipment supplier to correct faults on compressors and restore ozone disinfection. Reporting and sampling were completed, as per ECA requirements.

Notice of Modifications

Condition 11.4(k) - (ECA No. 0003-CGGME6)

There was no Notice of Modifications submitted during this reporting period. There were no normal or emergency operational modifications to existing approved sewage works equipment that were subject to Limited Operational Flexibility requirements.

Summary of Efforts to Comply with Procedure F-5-1

Condition 11.4 (l) - (ECA No. 0003-CGGME6)

Table 21: Summary of Efforts to Conform with Procedure F-5-1 in 2025

Date	Effort to Achieve Conformance
2025	The Wellington Wastewater Treatment Plant provides secondary treatment with disinfection and under normal operational circumstances meets all effluent quality objectives and limits, as prescribed by the ECA.
	In 2025, on going investigation of an engineering firm to design a new wastewater treatment facility. Continue in 2026.

Table 22: Summary of Efforts and Projected Budget to Conform with Procedure F-5-1 in 2026

Date	Effort to Achieve Conformance	Budget
2026	The tendering process will start for construction of the new wastewater treatment facility which will include tertiary treatment with UV disinfection.	Capital Replacement

Updates/Change to Schedule for Proposed Works

Condition 11.4 (m) - (ECA No. 0003-CGGME6)

All proposed works have been completed as of 2023.

Scheduled Sample Deviations

Condition 11.4 (n) - (ECA No. 0003-CGGME6)

For the 2025 operational year, scheduled samples were taken on Tuesday for the period of January-April 2025. After considering internal changes all the scheduled sample days were shifted from Tuesday to Monday for the rest of the year (May-December 2025). The scheduled samples were taken to comply with the ECA requirements, regulatory requirements and in response to events outside of normal operating conditions. Monday as a regulatory sample day will be continued for 2026.

Table 23: Deviations from Sample Schedule

Scheduled Sample Date	Adjusted Sample Date	Rationale
Monday, October 6, 2025	Monday, November 3, 2025	The annual sludge hauling took place in late September 2025. Due to that there was not enough volume left for the sampling on following week.

OPERATIONAL REPORTS

PICTON & WELLINGTON SANITARY COLLECTION SYSTEMS

ANNUAL PERFORMANCE REPORT
(CLI-ECA NO. 162-W601)



TheCounty

PRINCE EDWARD COUNTY • ONTARIO

2025 Annual Wastewater Collection Performance Report

The Corporation of the County of Prince Edward
County of Prince Edward Sewage Collection System
Consolidated Linear Infrastructure Environmental Compliance Approval: CLI-ECA No. **162-W601**

The County of Prince Edward Sewage Collection System is comprised of the Picton and Wellington Wastewater Collection Systems. The Picton Wastewater Collection System consists of sewage works for the collection and transmission of sewage, consisting of a separated sewer system, 6 sewage pumping stations and associated forcemains that discharge to the Lalor Street Inlet Pumping Station and the Picton Wastewater Treatment Plant.

The Wellington Wastewater Collection System consists of sewage works for the collection and transmission of sewage, consisting of a separated sewer system, 2 sewage pumping stations and associated forcemains that discharge to the Wellington Water Pollution Control Plant.

Consolidated Linear Infrastructure Environmental Compliance Approval No. 162-W601, Schedule E; Condition 4.6

The annual reporting requirements as per Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-EECA) number 162-W601 have been listed below. In accordance with Condition 4.6., *The Owner shall prepare an annual performance report for the Authorized System that:*

1. *Is submitted to the Director on or before March 31st of each year and covers the period from January 1st to December 31st of the preceding calendar year.*
 - a. *For clarity, the first report shall cover the period of January 1 2024 to December 31st, 2024 and be submitted to the Director on or before March 31st, 2025.*
 - b. *For the transitional period of January 1, 2022 to December 31, 2022, annual reporting requirements from previous ECAs pertaining to Spills only, where these occurred in the reporting period, and that have been revoked through issuance of this ECA shall apply*
 - i. *For the transitional period, condition 4.6.2 does not apply.*
2. *Is also submitted to the District Manager where a Collection System Overflow or Spill of Sewage has occurred in the reporting period.*
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.*
4. *Includes a summary of any operating problems encountered and corrective actions taken*
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*
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*
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.*

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.\
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.

And Condition 4.7, indicating that the report described in Condition 4.6 shall be:

1. Made available, on request and without charge, to members of the public who are served by the Authorized System; and
2. Made available, by June 1st of the same reporting year, to members of the public without charge by publishing the report on the Internet, if the Owner maintains a website on the Internet.

Report Preparation and Distribution

Condition 4.6.1 and 4.6.2 - (CLI -ECA No. 162-W601)

The annual Performance Report will be submitted to the required contacts in accordance with regulatory requirements.

Sampling and Monitoring Data & Interpretations

Condition 4.6.3 - (CLI -ECA No. 162-W601)

Not applicable. No sampling or monitoring within the collection systems has been required within the reporting period.

Operating Problems and Corrective Actions

Condition 4.6.4 - (CLI -ECA No. 162-W601)

Table 1: Operating Problems and Corrective Actions

Date Discovered	Date Resolved	Affected Equipment or Process	Description of any Operating Problems Encountered	Corrective Actions
March 25, 2025	March 25, 2025	Wharf Street Pumping Station backup generator	The new generator fuel line was not installed with a check valve to hold fuel to the fuel pump resulting in multiple manual starts.	The generator supplier installed check valve on the fuel line to resolve the issue.
July 25, 2025	July 25, 2025	Wharf Street Pumping Station sewage pump.	The 600-volt power cord was stuck in the impeller and damaged.	Replacement pump was put in service; the damaged pump was sent for repair.

Prince Edward County Sewage Collection System Annual Performance Report

Issue Date: March 20, 2026

Revision Date: 0. March 20, 2026

October 8, 2025	October 08, 2025	Harbour Street Pumping Station force main	During the installation of a new sewer service on Main Street in Wellington the force main of the pumping station was damaged by the excavator.	The damaged section was cut out and replaced with new.
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Calibration, Maintenance, and Repairs

Condition 4.6.5 - (CLI -ECA No. 162-W601)

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:

Routine preventative maintenance performed throughout the reporting period:

Collection System Routine Maintenance

- Annual electrical work-orders, as needed
- Annual Health and Safety equipment work-orders (fire extinguishers, lifting devices, gas detection equipment, etc.)
- Annual wet well cleaning, inspection and maintenance
- Annual equipment maintenance, calibrations and inspections (generators, flow meters, et. al.)
- Annual manhole inspection and maintenance
- Annual sewer main flushing

Collection System Repairs

Table 2: Collection System Repair Summary

Date Discovered	Date Resolved	Affected Equipment or Process	Description of any Operating Problems Encountered	Corrective Actions
January 2, 2025	February 07, 2025	346 Main Street Picton - Sewer Lateral Repair	The sewer lateral was damaged in the municipal road allowance.	The sewer lateral was excavated and repaired.
May 6, 2025	May 06, 2025	65 Mary Street Picton - Sewer Lateral Repair	The sewer lateral was damaged in the municipal road allowance.	The sewer lateral was excavated and repaired.
May 7, 2025	May 07, 2025	4 Elm Street Picton - Sewer Lateral Repair	The sewer lateral was damaged in the municipal road allowance.	The sewer lateral was excavated and repaired.
May 25, 2025	May 26, 2025	5 Main Street Picton - Sewer Main Blockage	The sewer main was blocked with grease and rags.	The sewer main was cleaned by third party contractor.

Additional maintenance details can be found in the Picton and Wellington Wastewater Treatment Facility Annual Performance Reports, *Maintenance Summary*.

Table 3: Flowmeter Calibration Details

Equipment Location	Description	Calibrated By	Calibration Date
Hill Street PS	Hill St. (FIT 100)	Tower Electronics Canada Inc.	July 21, 2025
Jasper Street PS	Jasper St. (FIT 101)		

Complaints and Corrective Actions

Condition 4.6.6 - (CLI -ECA No. 162-W601)

Date	Facility	Nature of Complaint	Description of Complaint	Action Taken
January 2, 2025	Picton Wastewater Collection System	Backup	Resident was having issues with sewage backing up.	Investigation. Excavate and repair the damaged sewer lateral section.*
February 7, 2025	Picton Wastewater Collection System	Backup	Resident was having issues with sewage backing up.	In response to customer concern, the lateral within the municipal road allowance was found to be vitrified clay tile and was laid through a storm sewer when installed. The sewer lateral was replaced by third party contractor.
February 26, 2025	Picton Wastewater Collection System	Plumbing	Resident called to report that toilet was not working properly and thought that might be related to the nearby water main repair.	A wastewater operator visited the site verify sewer lateral and/or main operation/flow. Sewer found to be operating properly. Referred customer to plumber for internal investigation.
March 24, 2025	Picton Wastewater Collection System	Plumbing	Resident informed that his plumbing was backed up.	A wastewater operator visited the site verify sewer lateral and/or main operation/flow. Sewer found to be operating properly. Referred customer to plumber for internal investigation.
March 31, 2025	Picton Wastewater Collection System	Plumbing	Resident was experiencing sewer backup.	A wastewater operator visited the site verify sewer lateral and/or main operation/flow. Sewer found to be operating properly. Referred customer to plumber for internal investigation.
May 6, 2025	Picton Wastewater Collection System	Backup	Resident was having issues with sewage backing up.	In response to a plumber notification as result of a customer concern, the lateral within the municipal road allowance was found to be vitrified clay tile and a void under the roadway was discovered. The lateral was repaired to the sewer main from property line.
May 7, 2025	Picton Wastewater Collection System	Backup	Resident was having issues with sewage backing up.	In response to customer concern, the sewer lateral was excavated from the property line to the sewer main. There was a piece of asbestos cement (AC) pipe between two historical repairs that was creating a blockage in flow. The AC pipe was removed, and a new piece of 5' PVC sewer lateral was installed.
May 9, 2025	Picton Wastewater Collection System	Odour	Resident experienced sewage odour in home.	Wastewater staff visited the site and did not experience sewage odour. Staff provided education regarding plumbing/p-trap.
August 6, 2025	Wellington Wastewater Collection System	Plumbing	Resident called to report a sewer backup.	A wastewater operator visited the site verify sewer lateral and/or main operation/flow. Sewer found to be operating properly. Referred customer to plumber for internal investigation. Additionally, groundwater infiltration was noted in basement. No sewage back-up was identified during site visit.
September 25, 2025	Picton Wastewater Collection System	Sewer Pipe Cap Request	Resident called to report the sewage pipe at the edge of the driveway needs a cap.	Cap replaced on the sewer clean out.
November 14, 2025	Picton Wastewater Collection System	Plumbing	Resident was having issued with the sewage backing up.	Resident had a plumber on-site prior, was advised to reach out to W&WW Department.

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				A wastewater operator visited the site verify sewer lateral and/or main operation/flow. Sewer found to be operating properly. Referred customer to plumber for camera/auger work on sewer lateral. Education provided on sewer use bylaw.
November 27, 2025	Picton Wastewater Collection System	Manhole Cover	Customer drove over the manhole cover, and it came free of the manhole.	A third-party contractor was secured to replace the frame and lid of the manhole. Lid was replaced.
December 4, 2025	Picton Wastewater Collection System	Plumbing	The house owner was having an issue with the drains backing up. Resident requested to that the municipal lines be checked to see if there is an issue.	A wastewater operator visited the site verify sewer lateral and/or main operation/flow. Sewer found to be operating properly. Referred customer to plumber for internal investigation.

Alteration to the Authorized System

Condition 4.6.7- (CLI -ECA No. 162-W601)

Location	Date Completed	Details
Picton Collection System	October 20, 2025	Construction of new Main Street pumping station was completed on October 20, 2025. On October 27, 2025, the new pumping station came in service and on October 28, 2025, the old main street pumping station was decommissioned.
Picton Collection System	December 12, 2025	Replacement of the York Street sewer from Main Street to Mary Street.
Picton Collection System	December 15, 2025	Reconstruction of all sewer mains and service connections from Johnson Street to Fawcett Avenue.

Collection System Events and Corrective Actions

Condition 4.6.8- (CLI -ECA No. 162-W601)

Table 4: Collection System Events

Date	Volume	Duration	TSS	BOD	TP	TKN	E.coli	Disinfection	Impacts/Corrective Actions
<i>No events of collection system overflows, and spills of sewage have been identified for the reporting period.</i>									

Efforts to Reduce System Events

Condition 4.7.9 - (CLI -ECA No. 162-W601)

There were no events of collection system overflows or spills of sewage identified in the inspection period.

Table 5: Efforts to Reduce Collection System Events

System	Date	Details	Outcomes/Impacts
Wellington Collection System	2026	Continued sewer flushing program for the Wharf Street sewage collection catchment area.	Proactive cleaning and maintenance on sewers to reduce likelihood of overflows and spills.
Picton Collection System	2025-2026	New construction of sanitary sewer mains from Fawcett Avenue to Folkard Lane.	The new infrastructure will accommodate new development.
Picton Collection System	2026	Reconstruction of sewer mains on Bowery Street and Barker Street.	The new infrastructure will accommodate new development.

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There is not currently a Pollution Prevention and Control Plan for the system. As per condition 8.2.2 of CLI-ECA No. 162-W601, a Pollution Prevention and Control Plan will be established and submitted no later than **June 17, 2027**.

Report Preparation and Distribution

Condition 4.7.1 and 4.7.2 - (CLI -ECA No. 162-W601)

Reports will be made available through inquiry to the Clerk's Office, and/or online at www.pecounty.on.ca.