



City of Summerside
Waste Water Treatment and Collection Facilities
Report for 2021

Date Submitted: January, 2022

Submitted by: City of Summerside Sewer Utility

1. Introduction

The City of Summerside operates a Treatment Facility that services approximately 15,000 people within the city. The plant is a tertiary BNR system that removes ammonia, phosphorus, and nitrogen from the water before it leaves the facility. The utility includes 116,077.3 meters of gravity sewer main, 9,927.9 meters of sewer force main, and 12 lift stations. This report is prepared to give the public a clear understanding of the facilities operation over the past year, 2021.

2. Summary of Wastewater Effluent Data Operation

The City of Summerside is required to meet maximum concentrations of 25mg/L of carbonaceous Biochemical Oxygen Demand (cBOD) and 25 mg/L of Total Suspended Solids (TSS) with Faecal Coliform of 400 MPN/100mL peak and 200 Most Probable Number (MPN) / 100ml average. These parameters are as per our Certificate of Approval from the Province of Prince Edward Island.

3. Summary of Discharge Notifications

During the calendar year 2021 there was 1 discharge event, which had began on December 13 of 2020 and lasted until January 6, 2021. This same event was included in the previous annual report since it spanned across both years.

Note that the sample taken May 27, 2021 is listed as having 33 mg/L TSS. As plant staff had their own data for that day showing a far lower number they consulted with PEI Department of Environment Staff who reached out to Environment Canada staff and a decision was made to resample on May 31. All 3 samples taken on May 31 showed Total Suspended Solids levels at or below 5mg/L, indicating the plant effluent was well within compliance and thus no out of compliance report was filed.

4. Major Operational Modifications

There were no operational modifications to the Summerside WWTP in 2021.

5. Major Construction WWTP Projects

There were no construction projects at the Summerside WPCC in 2021.

6. Summary of Biosolids Production

The City of Summerside produced a total of 4844 metric tons of fertilizer product through their N-Viro system during 2021. See table 4 for the breakdown of product used.

7. Summary of Flow Metering

The flow at the City of Summerside WWTP is measured using a Parshall flume and electronic instrument and recorded on our SCADA system. See Appendix D for daily flow readings.

8. Summary of Waste Water Collection System

In 2021 the City of Summerside continued to operate a modern Waste Water Collection System including gravity mains, force mains, and lift stations. Below is a list of lift stations under the care of the City of Summerside which all continued to receive maintenance as per usual in 2021:

Summerside Lift Station ID number	Location
LS 1	Northumberland Street
LS 2	Eustane Street
LS 3	Read's Corner
LS 4	Red Bridge
LS 5	Crozier Drive
LS 6	Glover's Shore Road
LS 7	Whitecap Drive
LS 8	Heather Moyse Drive
LS 9	MacKenzie Drive
LS 10	Briggs Street
LS 11	Granville Street
LS 12	MacKenzie Drive #2

Table 1: Summary of Wastewater Effluent Data

Date Sampled	Sample Location (WWTP)	ID #	cBOD (mg/L)	TSS (mg/L)	Faecal (MPN/100mL)
	Regulated Maximum Limits		25.0	25.0	200
January 6, 2021	After UV Outfall	W210106005	<10	15	Na
January 6, 2021	After UV Outfall	W210106004	Na	18	<2
January 20, 2021	After UV Outfall	W210120002	<10	8	2
February 3, 2021	After UV Outfall	W210203002	<10	5	2
February 17, 2021	After UV Outfall	W210217002	<10	7	<2
March 10, 2021	After UV Outfall	W210310005	<10	6	4
March 17, 2021	After UV Outfall	W210317002	<10	7	<2
March 31, 2021	After UV Outfall	W210331005	<10	2	<2
April 14, 2021	After UV Outfall	W210414003	<10	5	4
April 28, 2021	After UV Outfall	W210428002	<10	4	<2
May 12, 2021	After UV Outfall	W210512002	<10	4	<2
May 27, 2021	After UV Outfall	W210527002	<10	33	<2
May 31, 2021	After UV Outfall	W210531002	Na	5	<2
May 31, 2021	After UV Outfall	W210531003	Na	4	2
May 31, 2021	After UV Outfall	W210531004	Na	4	<2
June 9, 2021	After UV Outfall	W210609002	<10	5	<2
June 23, 2021	After UV Outfall	W210623003	<10	7	<2
July 7, 2021	After UV Outfall	W210707003	<10	3	<2
July 21, 2021	After UV Outfall	W210721002	<10	5	<2
August 4, 2021	After UV Outfall	W210804002	<10	4	<2
August 18, 2021	After UV Outfall	W210818002	<10	7	2
September 1, 2021	After UV Outfall	W210901002	<10	5	<2
September 15, 2021	After UV Outfall	W210915003	<10	5	<2
September 29, 2021	After UV Outfall	W210929003	<10	5	<2
October 13, 2021	After UV Outfall	W211013002	<10	5	<2
October 27, 2021	After UV Outfall	W211027003	<10	5	<2
November 10, 2021	After UV Outfall	W211110002	<10	5	2
November 24, 2021	After UV Outfall	W211124002	<10	6	2
December 8, 2021	After UV Outfall	W211208002	<10	5	<2
December 16, 2021	After UV Outfall	W211216002	<10	7	<2
December 29, 2021	After UV Outfall	W211229001	<10	7	<2

Table 2: Summary of Wastewater Effluent Chemistry Data

Date Sampled	Sample Location (WWTP)	ID #	Ammonia-N (ppm)	pH	Total Nitrogen (ppm)	Total Phosphorus (ppb)
January 20, 2021	After UV Outfall	W210120002	<0.1	8.0	2.8	135
May 12, 2021	After UV Outfall	W210512002	<0.1	7.3	1.8	196
August 18, 2021	After UV Outfall	W210818002	0.115	8.0	1.7	143
November 10, 2021	After UV Outfall	W211110002	<0.001	7.6	2.2	192
December 8 2021	After UV Outfall	W211208003	14.461	7.9	15.9	2280

Table 3: Summary of Discharge Notifications for WPCC and Lift Stations

Date	Time	WW Type	Location	Period of Discharge	Total Discharge	Reason for Discharge
December 13, 2020	3:00 p.m.	Release of Partially treated wastewater	Summerside WWTP	Until January 6 2021	192,000 cubic meters	Poor settling secondary sludge resulting in high effluent TSS.

Table 4: Summary of Biosolids Production Data

Sludge Total (Kg)	Lime Total (Kg)	Lime Dust Total (Kg)	Dewatered Sludge Cake % Solids Average	Final Product % Solids Average	Product Total (tonnes)
6,476,195	71,587	1,790,373	28.45	60.38	4844

Appendix A: Effluent Wastewater Lab Reports

See data in Table 1 of this report. For original copies of PEI Analytical Laboratories Reports please see Appendix E.

Appendix B: Biosolids Quality Lab Reports

	Exceptional Quality Limit, ACWWA	April 14, 2021	April 27, 2021	July 7, 2021	October 7, 2021
E. Coli	<1000 MPN/g	<2	5	<2	87.0
Salmonella	<3 MPN/4g	Absent	Absent	Absent	Absent
Arsenic	41 mg/kg	6.7	1.7	5.5	7.8
Cadmium	39 mg/kg	<0.5	<0.5	<0.51	<0.5
Chromium	1200 mg/kg	11.1	4.2	12.9	11.2
Copper	1500 mg/kg	57.4	38.6	88.0	67.5
Mercury	17 mg/kg	<0.2	<0.2	<0.2	<0.2
Molybdenum	75 mg/kg	3.8	1.1	3.5	3.5
Nickel	420 mg/kg	8.7	2.3	8.8	8.2
Lead	300 mg/kg	86.8	4.7	59.9	75.3
Selenium	100 mg/kg	3	<1	3	4
Zinc	2800 mg/kg	72	46	108	133

Appendix C: Daily Flow Meter Readings for Summerside WPCC 2021

Note: Readings are in cubic meters per day

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	7042	7970	8867	11638	10711	10153	8504	8355	8314	8376	8380	10838
2	7490	10736	8110	11358	10118	10024	8844	9320	18300	8119	8240	11258
3	7668	11075	8116	10396	10528	9659	8256	8916	10178	8202	8236	14431
4	8253	8646	7794	12580	10225	10264	10482	8735	9294	8791	7807	10936
5	8080	9492	8110	12479	10707	9331	9439	10338	8648	8476	8518	10590
6	8302	9279	7503	11784	11847	9226	8900	12932	11445	8356	7539	11919
7	7781	8453	7485	11180	10602	9996	9349	9102	9955	8244	7926	11082
8	7753	8760	8160	11020	12496	9888	8977	8958	9526	8308	8314	11360
9	7335	8467	8094	10629	11521	9640	10802	9431	9330	7842	8244	10729
10	7444	8578	8071	10144	11201	9343	8708	9321	11005	7882	8669	10420
11	7915	8058	9071	10232	11244	9401	8368	9816	9173	8191	7827	12691
12	7752	8273	10861	10553	11130	8688	9062	9070	9337	8277	8163	11436
13	7696	7809	8955	10316	10546	8910	9090	9217	9759	9219	7586	11606
14	7126	7685	8493	10729	10476	9461	9171	8528	9316	8346	7887	10818
15	7613	7962	8865	9825	9736	9533	8750	8536	9686	8424	9433	10807
16	8233	8313	8808	9784	9804	9727	8807	8871	8873	7840	8873	10595
17	10313	8084	8779	10586	10136	9174	7963	8803	8969	8555	8252	10937
18	8912	7758	8674	11689	10384	9025	8037	8772	8336	8666	8549	9783
19	8484	8024	8978	9906	10125	8685	8942	8643	8643	8727	9551	9947
20	8299	7652	8374	9320	9794	8704	8884	8772	8883	8282	7921	10600
21	7834	7522	8776	10115	10990	9440	9297	8015	8831	8402	8160	10383
22	8188	7954	9551	10317	11159	9948	10861	7996	8797	8431	15261	10455
23	7611	8397	9768	10050	11492	9389	9054	8841	8338	9303	14648	10225
24	7622	8257	9947	9441	10439	8868	8185	8641	8426	8862	10852	9255
25	8126	8091	9925	9825	10712	8971	8428	8665	8031	7871	10355	8043
26	8056	7913	17161	10375	10495	8465	9183	7589	9187	7414	11877	9127
27	7622	7788	11589	10442	10251	8599	8827	5136	8785	7932	10465	9459
28	7725	8035	11800	9969	10038	9176	8831	7898	8807	8182	9807	9483
29	7971		12724	9543	9243	9108	8441	7645	8756	8291	13540	9426
30	8249		11194	12525	9573	8997	11448	8562	8371	7882	11695	8952
31	8131		10977		10490		8549	8260		8555		8831

Appendix D Ortho Map



Appendix E

PEI Analytical Laboratories Reports



PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant
Sampler: Sam Arsenault
Sample Location: After UV Outfall
Sample Point: Summerside Water Pollution Control Plant
Water Type: WasteWater
Wastewater - WWTP - Effluent

Sample Number: W210106005
Date Sampled: 06-Jan-2021
Received Date: 06-Jan-2021
Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	12-Jan-2021
WML_04M*	TSS*	15	mg/L	1	07-Jan-2021

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 12-Jan-2021

Legend: MPN = Most Probable Number
cfu/100 mls = colony forming units per 100 millilitres
* = method accredited by Standards Council of Canada;
Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre
nd = not detected; na = not analysed
< = less than

Results in this report relate only to the actual submitted and tested sample. This report may not be reproduced except in full, without written approval from the laboratory. Please take a moment to complete our customer satisfaction survey at <https://peial.questionpro.ca>



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Department of Environment, Water and Climate Change

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210106005

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jan 06, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Field Notes: Bottles Post It Note A

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant
Sampler: Sam Arsenault
Sample Location: After UV Outfall
Sample Point: Summerside Water Pollution Control Plant
Water Type: WasteWater
Wastewater - WWTP - Effluent

Sample Number: W210106004
Date Sampled: 06-Jan-2021
Received Date: 06-Jan-2021
Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_09M*	Faecal coliforms A1*	<2	MPN	2	07-Jan-2021
WML_04M*	TSS*	18	mg/L	1	06-Jan-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 07-Jan-2021

Legend: MPN = Most Probable Number
cfu/100 mls = colony forming units per 100 millilitres
* = method accredited by Standards Council of Canada;
Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre
nd = not detected; na = not analysed
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Department of Environment, Water and Climate Change

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210106004

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jan 06, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Field Notes: Bottle Post It Note B 24 Hour Composite Sample

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

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Approved By:

Angela Richard - Lab Technician

End of Report

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PEI Analytical Laboratories Water Quality Test Report

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Chad Fraser

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210120002

Date Sampled: 20-Jan-2021

Received Date: 20-Jan-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	26-Jan-2021
WML_09M*	Faecal coliforms A1*	2	MPN	2	21-Jan-2021
WML_04M*	TSS*	8	mg/L	1	21-Jan-2021

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WCL_02M*	Ammonia-N*	<0.100	ppm	0.1000	01-Feb-2021
WCL_04M*	pH for Water*	8.0	pH (pH Units)	0.0000	03-Feb-2021
WCM_05M*	Total Nitrogen*	2.8	ppm	0.5000	21-Jan-2021
WCL_08M*	Total Phosphorus*	135	ppb	0.0100	28-Jan-2021

Lab Results Approved By: Lori Brine - Laboratory Manager

Date: 08-Feb-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

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Department of Environment, Water and Climate Change

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210120002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jan 20, 2021

PP_NO: 68726

Sampler: Chad Fraser

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories - Water Quality Test Report

23 Innovation Way, Charlottetown, PE

Page 1 of 1

Client Name: City of Summerside: Wastewater Treatment
Sample Point: St. Eleanors Wastewater Treatment Lagoon
Date Sampled: 2/3/2021
Date Received: 2/3/2021

Sample Number: W210203002
Sample Location: 15 Seaweed Road
Sampler: Winston Gallant
Water Type: Wastewater - WWTP - Effluent

Water Microbiology Results

(analysed at 23 Innovation Way)

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limit</u>
WML_04M *	TSS	5	mg/L	1.00
Approved By:	Angela Richard	Date: 2/4/2021		
WML_07M *	CBOD	<10	mg/L	10.00
WML_09M *	Faecal coliforms A1	2	MPN	2.00
Approved By:	Steven Nguyen	Date: 2/4/2021		

Date of Analysis available upon request.

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming unit per 100 millilitres

* = method accredited by Standards Council of Canada;

mg/L = milligrams per litre

nd = not detected; na = not analysed

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City of Summerside: Wastewater Treatment Plant
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Environment, Labour and Justice

Environment Division

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

2/9/2021

Sample Number: W210203002

Client Name: City of Summerside: Wastewater Treatment Plant
Sample Point: St. Eleanors Wastewater Treatment Lagoon
Sample Location: 15 Seaweed Road
Client Phone No.: 902-432-1274
Civic Address:
Community: PE

Sample Information:

Date Sampled: Wednesday, February 3, 2021

PP_NO: 68,726.00

Sampler:

Reference: Ben Lanigan

Watertype: WasteWater

Field Notes:

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.
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Drinking Water and Wastewater Management Section at 902-368-5043.

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Drinking Water and Wastewater Management Section at 902-368-5043.

Approved by:

Steven Nguyen



**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210217002

Date Sampled: 17-Feb-2021

Received Date: 17-Feb-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	24-Feb-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	18-Feb-2021
WML_04M*	TSS*	7	mg/L	1	18-Feb-2021

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 24-Feb-2021

Legend: MPN = Most Probable Number
cfu/100 mls = colony forming units per 100 millilitres
* = method accredited by Standards Council of Canada;
Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre
nd = not detected; na = not analysed
< = less than

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210217002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Feb 17, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210310005

Date Sampled: 10-Mar-2021

Received Date: 10-Mar-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	16-Mar-2021
WML_09M*	Faecal coliforms A1*	4	MPN	2	11-Mar-2021
WML_04M*	TSS*	6	mg/L	1	12-Mar-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 17-Mar-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210310005

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Mar 10, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Field Notes: Composite

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Angela Richard - Lab Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210317002

Date Sampled: 17-Mar-2021

Received Date: 17-Mar-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	23-Mar-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	18-Mar-2021
WML_04M*	TSS*	7	mg/L	1	18-Mar-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 23-Mar-2021

Legend: MPN = Most Probable Number
cfu/100 mls = colony forming units per 100 millilitres
* = method accredited by Standards Council of Canada;
Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre
nd = not detected; na = not analysed
< = less than

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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210317002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Mar 17, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Angela Richard - Lab Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210331005

Date Sampled: 31-Mar-2021

Received Date: 31-Mar-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	06-Apr-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	01-Apr-2021
WML_04M*	TSS*	2	mg/L	1	08-Apr-2021

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 08-Apr-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Department of Environment, Energy and Climate Action

PO Box 2000
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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210331005

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Mar 31, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Influent

Sample Number: W210414003

Date Sampled: 14-Apr-2021

Received Date: 14-Apr-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	20-Apr-2021
WML_09M*	Faecal coliforms A1*	4	MPN	2	15-Apr-2021
WML_04M*	TSS*	5	mg/L	1	15-Apr-2021

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 20-Apr-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210414003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Apr 14, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Influent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210428002

Date Sampled: 28-Apr-2021

Received Date: 28-Apr-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	04-May-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	29-Apr-2021
WML_04M*	TSS*	4	mg/L	1	30-Apr-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 04-May-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210428002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Apr 28, 2021

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Angela Richard - Lab Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210512002

Date Sampled: 12-May-2021

Received Date: 12-May-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	18-May-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	13-May-2021
WML_04M*	TSS*	4	mg/L	1	13-May-2021

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WCL_02M*	Ammonia-N*	<0.100	ppm	0.1000	26-May-2021
WCL_04M*	pH for Water*	7.3	pH (pH Units)	0.0000	14-May-2021
WCM_05M*	Total Nitrogen*	1.8	ppm	0.5000	31-May-2021
WCL_08M*	Total Phosphorus*	196	ppb	0.0100	07-Jun-2021

Lab Results Approved By: Lori Brine - Laboratory Manager

Date: 10-Jun-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210512002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: May 12, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210527002

Date Sampled: 27-May-2021

Received Date: 27-May-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	01-Jun-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	28-May-2021
WML_04M*	TSS*	33	mg/L	1	28-May-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 01-Jun-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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PO Box 2000
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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210527002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: May 27, 2021

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210531004

Date Sampled: 31-May-2021

Received Date: 31-May-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_09M*	Faecal coliforms A1*	<2	MPN	2	01-Jun-2021
WML_04M*	TSS*	4	mg/L	1	01-Jun-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 01-Jun-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210531004

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: May 31, 2021

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Field Notes: First Grab of 3 done @ 8:00 AM. Run out Faecal 6 rows.

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210531003

Date Sampled: 31-May-2021

Received Date: 31-May-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_09M*	Faecal coliforms A1*	2	MPN	2	01-Jun-2021
WML_04M*	TSS*	4	mg/L	1	01-Jun-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 01-Jun-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210531003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: May 31, 2021

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Field Notes: Second Grab of 3 @8:15 AM. Run out Faecal '6' rows.

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210531002

Date Sampled: 31-May-2021

Received Date: 31-May-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_09M*	Faecal coliforms A1*	<2	MPN	2	01-Jun-2021
WML_04M*	TSS*	5	mg/L	1	01-Jun-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 01-Jun-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210531002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: May 31, 2021

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Field Notes: 3rd Sample of 3 done @ 8:30 AM. Run of Faecal 6 rows.

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210609002

Date Sampled: 09-Jun-2021

Received Date: 09-Jun-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	15-Jun-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	10-Jun-2021
WML_04M*	TSS*	5	mg/L	1	11-Jun-2021

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 15-Jun-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210609002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jun 09, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Not indicated on request form

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: Wastewater

Wastewater - WWTP - Effluent

Sample Number: W210623003

Date Sampled: 23-Jun-2021

Received Date: 23-Jun-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	29-Jun-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	24-Jun-2021
WML_04M*	TSS*	7	mg/L	1	28-Jun-2021

Lab Results Approved By: Scott Brown - Laboratory Technologist

Date: 29-Jun-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Department of Environment, Energy and Climate Action

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210623003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jun 23, 2021

PP_NO: 68726

Sampler: Not indicated on request form

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - Effluent

Sample Number: W210707003

Date Sampled: 07-Jul-2021

Received Date: 07-Jul-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	13-Jul-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	08-Jul-2021
WML_04M*	TSS*	3	mg/L	1	09-Jul-2021

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 13-Jul-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

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WATER QUALITY ASSESSMENT

Sample Code: W210707003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jul 07, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210721002

Date Sampled: 21-Jul-2021

Received Date: 21-Jul-2021

Reported Date:

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	27-Jul-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	22-Jul-2021
WML_04M*	TSS*	5	mg/L	1	27-Jul-2021

Lab Results Approved By: Sandra Pinkham - Laboratory Technician

Date: 27-Jul-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

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WATER QUALITY ASSESSMENT

Sample Code: W210721002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jul 21, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

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For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Sandra Pinkham - Laboratory Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210804002

Date Sampled: 04-Aug-2021

Received Date: 04-Aug-2021

Reported Date: 10-Aug-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	10-Aug-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	05-Aug-2021
WML_04M*	TSS*	4	mg/L	1	05-Aug-2021

Lab Results Approved By: Sandra Pinkham - Laboratory Technician

Date: 10-Aug-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

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WATER QUALITY ASSESSMENT

Sample Code: W210804002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Aug 04, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Sandra Pinkham - Laboratory Technician

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210818002

Date Sampled: 18-Aug-2021

Received Date: 18-Aug-2021

Reported Date: 28-Sep-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	24-Aug-2021
WML_09M*	Faecal coliforms A1*	2	MPN	2	19-Aug-2021
WML_04M*	TSS*	7	mg/L	1	19-Aug-2021

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WCL_02M*	Ammonia-N*	0.115	ppm	0.1000	21-Sep-2021
WCL_04M*	pH for Water*	8.0	pH (pH Units)	0.0000	13-Sep-2021
WCM_05M*	Total Nitrogen*	1.7	ppm	0.5000	01-Sep-2021
WCL_08M*	Total Phosphorus*	143	ppb	0.0100	20-Sep-2021

Lab Results Approved By: Lori Brine - Laboratory Manager

Date: 21-Sep-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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WATER QUALITY ASSESSMENT

Sample Code: W210818002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Aug 18, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210901002

Date Sampled: 01-Sep-2021

Received Date: 01-Sep-2021

Reported Date: 07-Sep-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	07-Sep-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	02-Sep-2021
WML_04M*	TSS*	5	mg/L	1	03-Sep-2021

Lab Results Approved By: Scott Brown - Laboratory Technologist

Date: 07-Sep-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210901002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Sep 01, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210915003

Date Sampled: 15-Sep-2021

Received Date: 15-Sep-2021

Reported Date: 21-Sep-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	21-Sep-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	16-Sep-2021
WML_04M*	TSS*	5	mg/L	1	16-Sep-2021

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 21-Sep-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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WATER QUALITY ASSESSMENT

Sample Code: W210915003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Sep 15, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Andrew MacDonald

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W210929003

Date Sampled: 29-Sep-2021

Received Date: 29-Sep-2021

Reported Date: 04-Oct-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	04-Oct-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	01-Oct-2021
WML_04M*	TSS*	5	mg/L	1	01-Oct-2021

Lab Results Approved By: Sandra Pinkham - Laboratory Technician

Date: 04-Oct-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W210929003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Sep 29, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Sandra Pinkham - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W211013002

Date Sampled: 13-Oct-2021

Received Date: 13-Oct-2021

Reported Date: 19-Oct-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	19-Oct-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	14-Oct-2021
WML_04M*	TSS*	5	mg/L	1	14-Oct-2021

Lab Results Approved By: Sandra Pinkham - Laboratory Technician

Date: 19-Oct-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W211013002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Oct 13, 2021

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Sandra Pinkham - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W211027003

Date Sampled: 27-Oct-2021

Received Date: 27-Oct-2021

Reported Date: 02-Nov-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	02-Nov-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	28-Oct-2021
WML_04M*	TSS*	5	mg/L	1	28-Oct-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 02-Nov-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

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WATER QUALITY ASSESSMENT

Sample Code: W211027003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Oct 27, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

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For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Angela Richard - Lab Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W211110002

Date Sampled: 10-Nov-2021

Received Date: 10-Nov-2021

Reported Date: 15-Feb-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	15-Nov-2021
WML_09M*	Faecal coliforms A1*	2	MPN	2	12-Nov-2021
WML_04M*	TSS*	5	mg/L	1	12-Nov-2021

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WCL_02M*	Ammonia-N*	<0.100	ppm	0.1000	01-Dec-2021
WCL_04M*	pH for Water*	7.6	pH (pH Units)	0.0000	16-Dec-2021
WCM_05M*	Total Nitrogen*	2.2	ppm	0.5000	09-Feb-2022
WCL_08M*	Total Phosphorus*	192	ppb	0.0100	20-Jan-2022

Lab Results Approved By: Jackie Garnhum - Laboratory Supervisor

Date: 12-Feb-2022

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

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Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W211110002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Nov 10, 2021

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W211124002

Date Sampled: 24-Nov-2021

Received Date: 24-Nov-2021

Reported Date: 30-Nov-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	30-Nov-2021
WML_09M*	Faecal coliforms A1*	2	MPN	2	25-Nov-2021
WML_04M*	TSS*	6	mg/L	1	25-Nov-2021

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 30-Nov-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

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WATER QUALITY ASSESSMENT

Sample Code: W211124002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Nov 24, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Andrew MacDonald

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Chad Fraser

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W211208002

Date Sampled: 08-Dec-2021

Received Date: 08-Dec-2021

Reported Date: 14-Dec-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	14-Dec-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	09-Dec-2021
WML_04M*	TSS*	5	mg/L	1	10-Dec-2021

Lab Results Approved By: Angela Richard - Lab Technician

Date: 14-Dec-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

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WATER QUALITY ASSESSMENT

Sample Code: W211208002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Dec 08, 2021

PP_NO: 68726

Sampler: Chad Fraser

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Angela Richard - Lab Technician

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: WWTP After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W211216002

Date Sampled: 16-Dec-2021

Received Date: 16-Dec-2021

Reported Date: 21-Dec-2021

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	21-Dec-2021
WML_09M*	Faecal coliforms A1*	<2	MPN	2	17-Dec-2021
WML_04M*	TSS*	7	mg/L	1	17-Dec-2021

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 21-Dec-2021

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

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WATER QUALITY ASSESSMENT

Sample Code: W211216002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: WWTP After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Dec 16, 2021

PP_NO: 68726

Sampler: Mike Harris

Reference: Andrew MacDonald

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W211229001

Date Sampled: 29-Dec-2021

Received Date: 29-Dec-2021

Reported Date: 04-Jan-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	04-Jan-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	30-Dec-2021
WML_04M*	TSS*	7	mg/L	1	31-Dec-2021

Lab Results Approved By: Scott Brown - Laboratory Technologist

Date: 04-Jan-2022

Legend: MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada;

²=Estimated

Ammonia is equivalent to (Ammonia + Ammonium)-N

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W211229001

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Dec 29, 2021

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

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Approved By:

Scott Brown - Laboratory Technologist

End of Report

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