

April 1 to June 30, 2023

1. INTRODUCTION

The Quarterly Operations and Performance Report summarizes regulatory compliance, monitoring data and flow information. It provides a list of completed capital and major work projects and any call-outs that occurred after hours. It also includes complaints received and Health and Safety activities or issues that occurred during the quarter.

2. REGULATORY COMPLIANCE

2.1 Summary of Reportable Non-compliances/Events

Facility	Date	Event No.	Non-compliance /Event	Corrective Action
Temagami S. DWS	April 13	N/A	Distribution chlorine residual samples collected on April 13 th were taken less than 48 hours after the samples collected on April 11 th . Regulatory requirement – distribution chlorine residual samples must be collected at least 48 hours after the previous sample.	Three (3) chlorine residuals were taken in the distribution system on Sunday, April 16 th . Chlorine residual samples taken April 11 th , 13 th and 16 th were all above 1.0 mg/L. Local Ministry Inspector notified.
Temagami N. Lagoon	May 1	1-3LN3LV	Flow exceedance - the lagoon exceeded its allowable peak flow rate of 1200 m ³ /day having a maximum flow of 1201.4 m ³ /day.	Enhanced sampling initiated for abnormal conditions as per the ECA.
Temagami N. DWS	May 25	N/A	Missed sampling – a new treated water flow meter was installed at the Temagami North WTP on May 25 th . The meter was disinfected as per AWWA Standards, but no sampling was done.	1. discussion was held with operations staff to discuss the non-compliance. 2. A procedure has been developed to ensure compliance with AWWA Standards 3. Training on the procedure was done with all operators on June 14 th 4. A Disinfection Plan will be developed for such work which will be signed off by all operation staff involved in the project to ensure appropriate disinfection and sampling procedures are followed. 5. A tracking list will be kept of upcoming jobs and will indicate if AWWA Standards/Watermain Disinfection Procedure are required. Local Ministry Inspector notified.

Facility	Date	Event No.	Non-compliance /Event	Corrective Action
Temagami South Lagoon	June	1-3J7XRJ	<p>The effluent total suspended solids (TSS) exceeded the seasonal average concentration and loadings limits for the Spring discharge.</p> <p>Seasonal average concentration for TSS = 30.2 mg/L and limit is 25 mg/L.</p> <p>Seasonal average loadings for TSS = 86.8 kg/day and the limit is 71.9 kg/d.</p>	<ul style="list-style-type: none"> • A new chemical metering pump will be installed before the Fall discharge to allow for more accurate ferric addition. This will improve settling and help maintain pH • Dredging of the lagoon is being considered by the Owner.

2.2 Summary of Other Events

Facility	Date	Event	Corrective Action
Temagami N. DWS	May 23	Category 1 curb stop repair - a leak occurred on a <4" service line at the curb stop at 39 Birch Street affecting 1 home. Suspected cause of the leak was unknown	The curb stop was replaced.

2.3 Third Party Inspections and Findings

Martin River - The Health Unit conducted risk assessment of the Martin River Fire Hall on April 19th. The new Directive, dated May 3, 2023 identified one recommendation – if the Municipality replaces the UV system, it should be replaced with a UV system equipped with a shut-off feature when disinfection is not at an appropriate level.

2.4 Quality Environmental Management System

An Internal Audit was conducted for the Temagami Drinking Water Systems in June and eight (8) opportunities for improvement were identified and will be tracked until resolved. Refer to Appendix A for list of findings.

2.5 Training

Harmful Algal Bloom training was completed on May 17th. This is mandatory training which is to be completed prior to June 1st as per the system's Municipal Drinking water license (MDWL).

2.6 Reporting

A summary of reports submitted by OCWA on behalf of the Municipality are listed in the tables below.

Water System Reports	Submission Frequency	Submitted To	Submission Dates
2022 Annual/Summary Reports for North and South DWSS	By February 28 th of each year	MECP and Owner	February 28, 2023

Sewage System Reports	Submission Frequency	Submitted To	Submission Dates
2022 Annual Performance Reports for North and South Lagoons	By March 31 st of each year	MECP and Owner	March 31, 2023
Annual WSER Reporting for North and South Lagoons (2022)	45 days after the end of the year	Environment Canada	January 19, 2023
Temagami N. Lagoon – Quarterly Overflow/Bypass Reports	45 days after the quarter	MECP	February 22, 2023 (Q4 2022) May 10, 2023 (Q1, 2023)
Quarterly Effluent Discharge Data Reports for North and South Lagoons	The Ontario Clean Water Agency (OCWA) has an arrangement with the MECP to submit quarterly discharge data for all OCWA operated municipal sewage treatment facilities 45 days at the end of each quarter	MECP	February 15, 2023 (Q4, 2022) May 15, 2023 (Q1, 2023)

2.7 Other Important Information

Temagami Sewage Collection System

- The CLI ECA for the Sanitary System was issued on May 16, 2023.
- A request was submitted to the MECP on June 16th to revise the ECA.
 - to add Temagami Shores SPS which was missing from the final version and
 - to make minor changes to Schedules A and B.

3. MONITORING DATA AND FLOWS

3.1 Data Reports

Municipal drinking water sampling and testing required by Ontario Regulation 170/03 was completed this quarter and all results complied with limits.

- Temagami South DWS - distribution chlorine residual testing was conducted too early during the week of April 10th.
- Temagami South DWS - bacteriological sampling was missed after the installation of the new treated water flow meter in May.
- Refer to Section 2(2.1) for details.

Wastewater sampling and testing required by the systems' Environmental Compliance Approval and the Wastewater Systems Effluent Regulation was completed.

- Temagami North Lagoon - Flow exceedance in May due to heavy rainfall.

- Temagami South Lagoon – Effluent TSS exceedance during the Spring discharge.
- Refer to Section 2(2.1) for details.

Refer to Appendix B for Quarterly Data Reports.

Quarterly bacteriological sampling required under the Ministry of Health’s Directive for the Marten River Fire Hall was completed this quarter on April 11th. Results were acceptable meeting regulatory limits.

3.2 Flows

3.2.1 Temagami North Water Treatment Plant

2023	Total Raw Flows (m ³)	Total Treated Flows (m ³)	% Difference (Raw – Treated)	Average Daily Treated Flow (m ³ /d)	Maximum Treated Flow (m ³ /d)	% of the Rated Max. Capacity (460 m ³ /d)
January	5050	4418	12.5%	143	163	35.4%
February	5815	5040	13.3%	180	281	61.1%
March	6389	5369	16.0%	173	205	44.6%
April	4627	4304	7.0%	143	190	41.3%
May	4400	4050	8.0%	131	172	37.4%
June	5373	4943	8.0%	165	263	57.2%
July						
August						
September						
October						
November						
December						

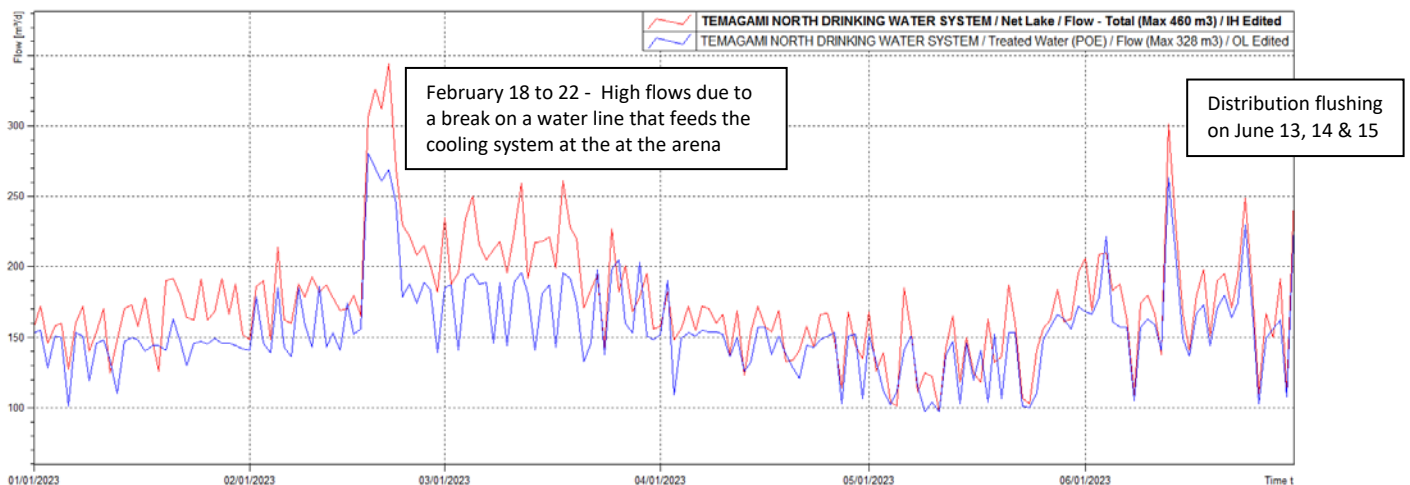


Figure 1: Temagami North WTP - Raw Water versus Treated Water (January to June 2023)

3.2.2 Temagami North Lagoon

2023	Total Influent Flow (m ³)	Average Daily Influent Flow (m ³ /d)	% of the Avg. Day Rated Capacity (390 m ³ /d)	Maximum Influent Flow (m ³ /d)	% of the Rated Max. Capacity (1200 m ³ /d)
January	5864	189	45.5%	256	21.3%
February	5026	180	46.2%	228	19.0%
March	5964	192	49.2%	224	18.7%
April	19013	634	163%	1157	96.4%
May	13384	432	111%	1201*	100%*
June	5793	193	49.5%	301	25.1%
July					
August					
September					
October					
November					
December					

*High flows occurred in April and May due to snow melt and heavy precipitation. The system exceeded the maximum allowable peak flow rate of 1200 m³/day on May 1st due to extreme rainfall.

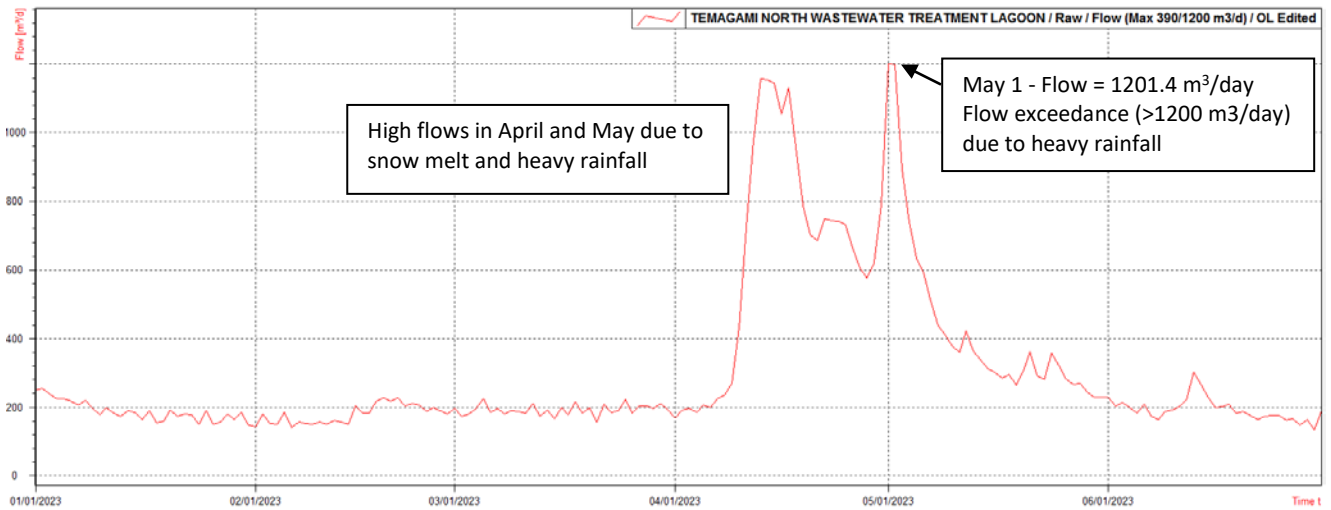


Figure 2: Temagami North Lagoon – Influent Flow (January to June 2023)

3.2.3 Temagami South Water Treatment Plant

2023	Total Raw Flows (m ³)	Total Treated Flows (m ³)	% Difference (Raw – Treated)	Average Daily Treated Flow (m ³ /d)	Maximum Treated Flow (m ³ /d)	% of the Rated Max. Capacity (950 m ³ /d)
January	4024	3617	10.1%	117	149	15.7%
February	3635	3245	11.2%	116	141	14.8%
March	3875	3422	11.7%	110	145	15.3%
April	3580	3236	9.6%	108	169	17.8%
May	4096	3560	13.1%	115	180	18.9%
June	6665	5956	10.6%	199	293	30.8%
July						
August						
September						
October						
November						
December						

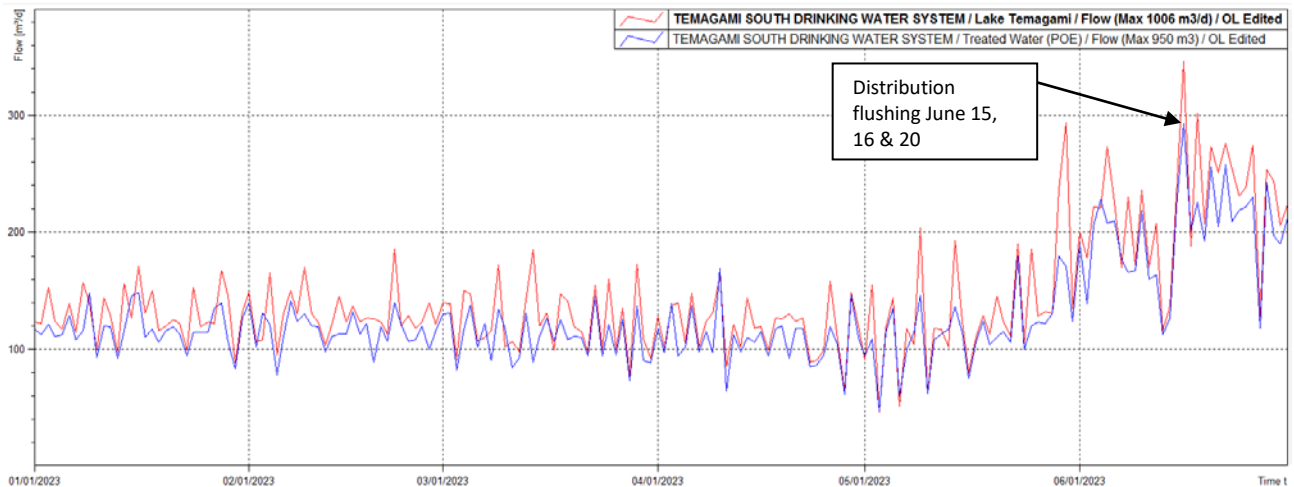


Figure 3: Temagami South WTP - Raw Water versus Treated Water (January to June 2023)

3.2.4 Temagami South Lagoon

2023	Total Influent Flow (m ³)	Average Daily Influent Flow (m ³ /d)	% of the Avg. Day Rated Capacity (232 m ³ /d)	Maximum Influent Flow (m ³ /d)	Average Daily Effluent Flow (2877.1 m ³ /d)
January	4263	138	59.5%	146	
February	3764	134	57.8%	162	
March	4012	129	55.6%	142	
April	4745	158	68.1%	193	
May	4458	144	62.1%	164	2877
June	4144	138	59.5%	150	2877
July					
August					
September					
October					
November					
December					

*The lagoon discharges seasonally into Snake Lake. The Spring discharge occurred from May 10th to June 1st (allowable discharge period from May 1st to June 15th)

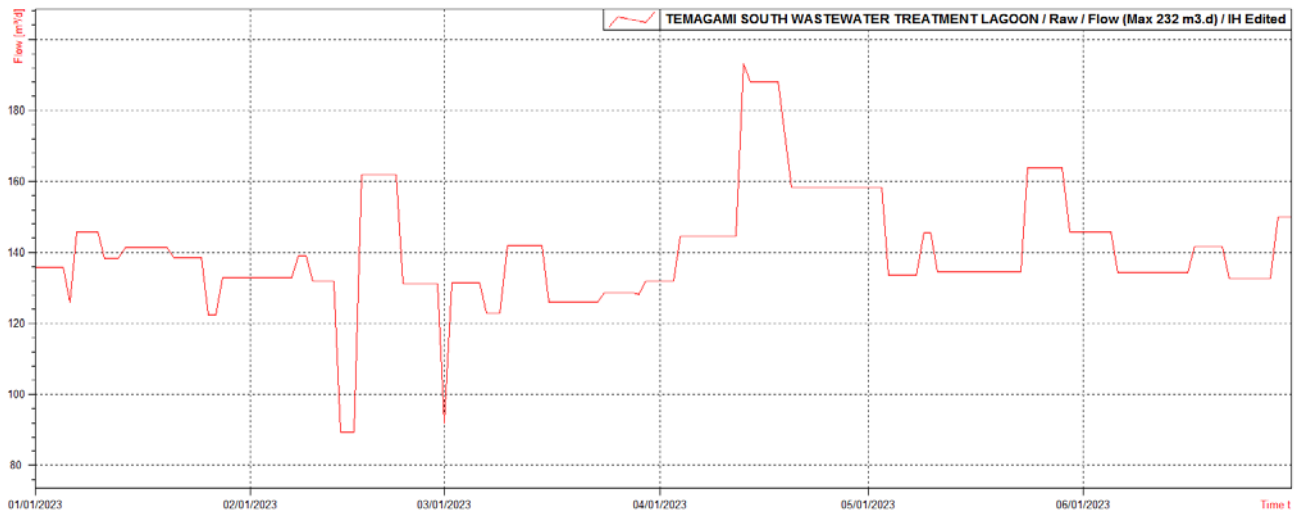


Figure 2: Temagami South Lagoon – Influent Flow (January to June 2023)

4. ASSET MANAGEMENT

Preventative maintenance and equipment calibrations are scheduled, assigned and tracked using OCWA’s Workplace Management System (Maximo). All monthly and quarterly work orders scheduled for this quarter were completed. Corrective and emergency maintenance is also managed using Maximo. Detailed maintenance reports can be made available upon request.

5. CAPITAL & MAJOR MAINTENANCE PROJECTS

Status of capital work completed to date in 2023.

Temagami North Drinking Water System	
Project	Status
Replaced faulty output card for turbidity and pH analyzer	Complete - February
Replaced turbidity desiccant cartridges	Complete - April
Replaced treated water flow meter	Complete - May
New level indicator LIT in clearwell 3	Complete - May
Diaphragm kits for alum pumps	Complete - May
New pH probe	Complete - June

Temagami North Lagoon	
Project	Status
Ecofix pilot and sampling	On-going to end of 2023
Replaced effluent sampler	Complete - June
New pH probe	Complete - June

Temagami South Drinking Water System	
Project	Status
Water system at Chalet – UV and softener	Complete - April
Spare treated water chlorine analyzer	Complete - May
Spare clearwell level indicator LIT	Complete - May
Replaced faulty tower signal isolator	Complete - June

Temagami South Lagoon	
Project	Status
Ferric pump	Complete - June

Martin River	
Project	Status
UV system parts	Complete - June

6. CALL-OUT SUMMARY

System	Call-outs This Quarter	Total To Date
Temagami North DWS	2	7
Temagami North Lagoon	0	0
Temagami South DWS	0	0
Temagami South Lagoon	0	0
TOTAL	2	7

*Note: Not all call -outs are billed to the Owner; depends on the nature of the call.

Refer to Appendix C for a detailed call back summary.

7. COMPLAINTS

No complaints reported during this quarter.

8. HEALTH AND SAFETY

8.1 Incidents

Number of Health and Safety Incidents reported this quarter = 0

8.2 Training

Health and Safety training sessions completed this quarter include:

- ✓ April – Near Misses
- ✓ May – Human and Organizational Performance
- ✓ May – Connection and Use of Propane Torches
- ✓ June – Fuel and Vehicle Safety
- ✓ June – Facility Grating
- ✓ June – Poisonous Plant, Insects and Wildlife



APPENDIX A

Internal Audit Findings

Temagami Drinking Water Systems - (2023) Summary of Findings

Revision 4: November 28, 2018

Corrective Actions

Preventative Actions

Other Actions

Mj - Major Non-conforman **OFl** - Opportunity for Improvement

AI - Action Item

BMP - Best Management Practices

Mn - Minor Non-conformance

C/Obs - Comments or Observations

IMPORTANT NOTE: A root cause analysis must be completed for all Corrective Actions

Section	Description of Findings	Type	Action	Responsibility/ Assignee	Resolution Target Date	Resolution Date	Verification/ Effectiveness of Action <small>(include date and details)</small>
Internal Audit: (Date of report: July 4, 2023)							
OP-05 Document and Records Control	Consider changing the controlled location of the Operational Plans to the Municipal website as this location provides better public access and document control	OFl	Discuss this recommendation with the Municipality. Discussed with Municipality on June 7th and Plan posted on Municipal website on June 7 - confirmed.	I. Bruneau, PCT/QEMS Rep. C. Davidson, CAO	Dec. 31, 2023	Jun. 7, 2023	
	With the recent forest fires in the area, consider having a forest fire procedure in the FEP binder	OFl	Prepare procedure and locate in the FEP binder. Procedure developed and located in the FEP binder and on the Public Drive	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023	Jul. 7, 2023	
	On the Document and Records Control Table, Engineering schematics/plans/drawings are at the Monteith WTP. This is to be corrected to indicate the Temagami North & South WTPs.	C/Obs	Correct the tabel suring the next revision of the Plan. Corrected in draft version. To be finalized before the end of 2023.	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023		
OP-06 Drinking Water System	Consider adding a description of the Control System (SCADA) for each of the drinking water systems.	OFl	OP-06 will be updated during the next revision. Draft complete and procedure will be finalized before the end of 2023.	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023		
	Consider updating raw water characteristics with current data (2022)	OFl	OP-06 will be updated during the next revision. Draft complete and procedure will be finalized before the end of 2023.	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023		
	Consider adding a description of how to maintain disinfection in the distribution system.	OFl	OP-06 will be updated during the next revision. Draft complete and procedure will be finalized before the end of 2023.	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023		
OP-08 Risk Assessment	May want to include compromised structural integrity of the tower and clearwells as potential risks.	OFl	This will be considered during the next review and revision of the Risk Assessment Added to the draft Risk Assesment. Will be finalized after the Management Review , planned for December 2023.	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023		

Section	Description of Findings	Type	Action	Responsibility/Assignee	Resolution Target Date	Resolution Date	Verification/Effectiveness of Action (include date and details)
Outcomes	The EEP for Water Supply Shortage needs to be updated to OCWA's current procedure. May want to consider developing procedures for: <ul style="list-style-type: none"> • EEP for Turbidity Analyzer Failure • EEP for Chlorine Analyzer Failure 	OFI	These procedures will be updated/developed during the next review of the FEP binders. Procedure updated and located in the FEP binder and on the Public Drive	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023	Jul. 7, 2023	
OP-16 Sampling, Testing and Monitoring	The table in Section 3.6 of OP-16 can be updated to include process pH, treated water temperature, raw water colour and polymer usage.	OFI	This will be updated during the next revision of the procedure. Draft complete and procedure will be finalized before the end of 2023.	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023		
OP-18 Emergency Management	Add contact information for new Safety Process and Compliance Manager (Jeremy Galda)	C/Obs	This was completed on June 26, 2023	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023	Jun. 26, 2023	
OP-21 Continual Improvement	The Team Lead has recently changed to an Operations Supervisor. This position can be updated throughout the Plan	C/Obs	This will be updated during the next revision of the Plan	I. Bruneau, PCT/QEMS Rep.	Dec. 31, 2023		



APPENDIX B

Quarterly Data Reports

TEMAGAMI NORTH DRINKING WATER SYSTEM

Quarterly Data Report



Q2: April 1 to June 30, 2023

Temagami North Drinking Water System		April	May	June	Compliance
Flows					
Raw Flow - Maximum Daily Volume	m ³ /d	182	196	301	Max. = 460
Raw Flow - Maximum Flow Rate	L/min	464 ¹	447	479 ¹	Max. = 456
Treated Flow - Maximum Daily Volume	m ³ /d	190	172	263	Max. = 328
Treated Flow - Maximum Flow Rate	L/min	655	653	798	Max. = 1140 (CT) ²
Raw Water					
Total Coliforms - Maximum	c/100mL	68	150	50	N/A
<i>E.coli</i> - Maximum	c/100mL	< 2	< 2	< 2	N/A
Treated Water					
Free Chlorine Residual – Min.	mg/L	1.44	1.22	1.09	Min. = 0.85 (CT) ²
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
<i>E.coli</i> - Maximum	c/100mL	0	0	0	Max. = 0
Filter 1 Turbidity - Maximum	NTU	0.55	0.74	0.27	Max. = 1
Filter 2 Turbidity - Maximum	NTU	0.67	0.62	0.20	Max. = 1
% of time turbidity ≤ 0.3 NTU	Filter 1	100	100	100	Min. = 95%
% of time turbidity ≤ 0.3 NTU	Filter 2	100	100	100	Min. = 95%
Nitrite	mg/L	< 0.01			Max. = 1
Nitrate	mg/L	0.1			Max. = 10
Distribution Water					
Free Chlorine Residual - Minimum	mg/L	0.55	0.28	0.10	Min. = 0.05
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
<i>E.coli</i> - Maximum	c/100mL	0	0	0	Max. = 0
Trihalomethanes (THMs)	µg/L	40.9			Max. = 100 µg/L (RAA) ³
Haloacetic Acids (HAAs)	µg/L	46			Max. = 80 µg/L (RAA) ⁴
Lead - Maximum	µg/L	-	-	-	Max. = 10 µg/L ⁵
Alkalinity – Maximum	mg/L	-	-	-	N/A ⁶

TEMAGAMI NORTH DRINKING WATER SYSTEM

Quarterly Data Report



Q2: April 1 to June 30, 2023

Notes:

1 April 24 – high raw flow rate occurred during a run cycle when the flow control valve faulted.

June 13 to 15 - High raw flow rates due to distribution flushing.

2 CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the Temagami North water plant if the treated flow leaving the plant goes above 1140 L/minute or the free chlorine residual level drops below 0.30 mg/L to ensure primary disinfection is achieved. Primary disinfection was achieved this quarter.

3 Maximum Allowable Concentration (MAC) for Trihalomethanes (THMs) = 100 ug/L (Four Quarter Running Average). The running average to the end of this quarter = 39 ug/L

4 Maximum Allowable Concentration (MAC) for Haloacetic Acids (HAAs) = 80 ug/L (Four Quarter Running Average). The running average to the end of this quarter = 52 ug/L

5 Lead testing required every 3 year. Next sampling due in 2024.

6 Alkalinity testing required twice per year. Sampling is done in March and September of each year.

TEMAGAMI NORTH WASTEWATER TREATMENT LAGOON

Quarterly Data Report



Q2: April 1 to June 30 2023

Temagami North Wastewater Lagoon		April	May	June	Compliance
Flows					
Influent – Average Daily Flow	m ³ /d	634	432	193	Avg. Capacity = 390
Influent – Maximum Daily Flow	m ³ /d	1157	1201 ¹	301	Max. Capacity = 1200
Influent					
BOD ₅ – Average	mg/L	25	26	25	N/A
Total Suspended Solids (TSS) – Average	mg/L	37	33	46	N/A
Total Phosphorus (TP) – Average	mg/L	0.826	0.849	1.19	N/A
Total Ammonia (TKN) – Average	mg/L	6.4	8.8	13	N/A
Effluent					
cBOD ₅ – Average	mg/L	2.7	6.1	2.3	Monthly Average = 20
TSS – Average	mg/L	< 3.9	< 13	< 3.9	Monthly Average = 30
TP – Average	mg/L	0.103	0.065	0.059	Monthly Average = 0.6
Total Ammonia Nitrogen (TAN) – Average	mg/L	3.5	0.23	0.85	Monthly Average = 6
Dissolved Oxygen (DO) - Average	mg/L	11	12	4.7	N/A
Un-ionized Ammonia - Average	mg/L	0.007	0.006	0.069	N/A
<i>E. coli</i> - Geometric Mean	cfu/100mL	504	10	11	N/A
Temperature – Average	°C	3.8	15	22	N/A
pH – Minimum to Maximum		6.92 to 7.77	7.01 to 8.50	7.06 to 8.90	6.0 to 9.5 (inclusive)

Notes:

- 1 High flows occurred in April and May due to snow melt and heavy precipitation. The system exceeded the maximum allowable peak flow rate of 1200 m³/day on May 1st due to extreme rainfall.
- 2 MGM for *E. coli* means the monthly geometric mean density of the sample results.

TEMAGAMI SOUTH DRINKING WATER SYSTEM

Quarterly Data Report



Q2: April 1 to June 30, 2023

Temagami South Drinking Water System		April	May	June	Compliance
Flows					
Raw Flow - Maximum Daily Volume	m ³ /d	163	294	346	Max. = 1006
Raw Flow - Maximum Flow Rate	L/min	700	694	641	Max. = 700
Treated Flow - Maximum Daily Volume	m ³ /d	169	180	293	Max. = 950
Treated Flow - Maximum Flow Rate	L/min	649	682	730	Max. = 1200 (CT) ¹
Raw Water					
Total Coliforms - Maximum	c/100mL	170	90	< 175	N/A
<i>E.coli</i> - Maximum	c/100mL	< 5	< 5	< 10	N/A
Treated Water					
Free Chlorine Residual – Min.	mg/L	1.40	1.47	1.54	Min. = 1.00 (CT) ¹
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
<i>E.coli</i> - Maximum	c/100mL	0	0	0	Max. = 0
Filter 2 Turbidity - Maximum	NTU	0.25	0.89	0.09	Max. = 1
% of time turbidity ≤ 0.3 NTU	Filter 2	100	100	100	Min. = 95%
Nitrite	mg/L	< 0.05			Max. = 1
Nitrate	mg/L	< 0.05			Max. = 10
Distribution Water					
Free Chlorine Residual - Minimum	mg/L	1.15	1.11	0.36	Min. = 0.05
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
<i>E.coli</i> - Maximum	c/100mL	0	0	0	Max. = 0
Trihalomethanes (THMs)	µg/L	25.6			Max. = 100 µg/L (RAA) ²
Haloacetic Acids (HAAs)	µg/L	52			Max. = 80 µg/L (RAA) ³
Lead - Maximum	µg/L	-	-	-	Max. = 10 µg/L ⁴
Alkalinity – Maximum	mg/L	-	-	-	N/A ⁵

TEMAGAMI SOUTH DRINKING WATER SYSTEM

Quarterly Data Report



Q2: April 1 to June 30, 2023

Notes:

- 1** CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the Temagami South water plant if the treated flow leaving the plant goes above 1200 L/minute or the free chlorine residual level drops below 1.00 mg/L to ensure primary disinfection is achieved. Primary disinfection was achieved this quarter.
- 2** Maximum Allowable Concentration (MAC) for Trihalomethanes (THMs) = 100 ug/L (Four Quarter Running Average). The running average to the end of this quarter = 33.0 ug/L
- 3** Maximum Allowable Concentration (MAC) for Haloacetic Acids (HAAs) = 80 ug/L (Four Quarter Running Average). The running average to the end of this quarter = 49.5 ug/L
- 4** Lead testing required every 3 year. Next sampling due in 2024.
- 5** Alkalinity testing required twice per year. Sampling is done in March and September of each year.

TEMAGAMI SOUTH WASTEWATER TREATMENT LAGOON

Quarterly Data Report



Q2: April 1 to June 31, 2023

Temagami South Wastewater System		April	May	June	Compliance
Flows					
Influent – Average Daily Flow	m ³ /d	158	144	138	Avg. Capacity = 232
Influent – Maximum Daily Flow	m ³ /d	193	164	150	Max. Capacity = N/A
Influent					
BOD ₅ – Average	mg/L	70	-	-	N/A
Total Suspended Solids (TSS) – Average	mg/L	57	-	-	N/A
Total Phosphorus (TP) – Average	mg/L	2.49	-	-	N/A
Total Ammonia (TKN) – Average	mg/L	20	-	-	N/A
Cell Contents Prior Discharge ¹					
Total Phosphorus (TP)	mg/L		0.299		N/A
Hydrogen Sulphide (HS)	mg/L		< 0.04		N/A
<i>E. coli</i>	cfu/100 mL		5000		N/A
Effluent					
Spring Discharge Period		-	May 10 th to June 1 st		May 1 st to June 15 th
Average Discharge Flow	m ³ /d	-	2877		Max. = 2877
cBOD ₅ – Average	mg/L		7		Annual Average = 25
BOD ₅ – Average	mg/L	-	11		Seasonal Average = 25
BOD ₅ – Loadings	kg/d	-	32		Seasonal Average = 71.9
TSS – Average	mg/L	-	30 ²		Seasonal Average = 25
TSS – Loadings	kg/d	-	87 ²		Seasonal Average = 71.9
TP – Average	mg/L	-	0.265		Seasonal Average = 1.0
TP – Loadings	kg/d	-	0.76		Seasonal Average = 2.9
Total Ammonia Nitrogen (TAN) – Average	mg/L	-	16		N/A
Temperature – Average	°C		17		N/A
pH – Minimum to Maximum			7.08 to 8.30		6.0 to 9.5 (operational guideline)

Notes:

1 One (1) lagoon cell sample is collected prior to the Spring and Fall discharge. Spring sample was collected on May 3rd.

TEMAGAMI SOUTH WASTEWATER TREATMENT LAGOON

Quarterly Data Report



Q2: April 1 to June 31, 2023

- 2 The system failed to meet the TSS limits during the Spring discharge. A new ferric pump will be installed to allow for more accurate ferric addition. The pump will be installed in time for the Fall discharge.



APPENDIX C

Call-out Summary

Work Order Call Back Details Report

3341286: call alum pump fail temagami north WTP 6030

Asset:

Location: 6030-WTTM-P-CG 6030, Temagami North WTP, Process, Coagulation

Page Time:	04/23/2023 10:30 AM
Arrive time:	04/23/2023 11:30 AM
Leave time:	04/23/2023 12:00 PM
Finish Time:	04/23/2023 12:45 PM
Report Date:	4/24/23
Reported By:	Claude Mongrain
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification:	REFURBISH/REPLACE
GL Account:	TEMAGY6030-210M

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	MECHANIC	Claude Mongrain	00:00	04:00

Log		
Date	Created By	Description
4/24/23	Claude Mongrain	alum pump fail
both alum pump fail try to reset did not work ,power off panel still not reset call josh and to help told me to go in the setting and reset the maintenance kit replace that work also reset PLC		

Work Order Call Back Details Report

3385201: Called In - BCA #1 Shutdown , 6030

Asset:

Location: 6030-WTTM 6030, Temagami North WTP

Page Time:	05/14/2023 11:15 AM
Arrive time:	05/14/2023 11:30 AM
Leave time:	05/14/2023 11:45 AM
Finish Time:	05/14/2023 11:45 AM
Report Date:	5/14/23
Reported By:	Cassandra Legros
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	PREDICTIVE MAINTENANCE
GL Account:	TEMAGY6030-210M

Actual Labor				
Task ID	Craft	Labor	Regular Hours	Premium Hours
	OPERATOR	Cassandra Legros	00:00	04:00

Log		
Date	Created By	Description
5/14/23	Cassandra Legros	Called In - BCA #1 Shutdown , 6030

Called in for BCA shutdown. Arrived on site and train #1 shutdown and alum pump 1 lockout due to low raw flow going the chemical pump because train #1 was in a backwash.

Reviewed small data gap from on May 13 from 06:59:14 to 07:00:28AM. Plant was off and no gaps on chart recorded.