



WASAGA BEACH DRINKING WATER SYSTEM

PERFORMANCE REPORT

**For the period of
JANUARY 1, 2025 to JANUARY 31, 2025**

Prepared by the Ontario Clean Water Agency



**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

Table of Contents

1. Process Performance & Regulatory Compliance.....	2
1.1 Summary of Non-Compliances & AWQIs.....	2
1.1.1 Description of Non-Compliances.....	2
1.1.2 Description of AWQIs.....	2
1.2 Summary of Process Performance	3
1.2.1 Flow – Raw and Treated.....	3
1.2.2 Water Quality – Microbiological Testing.....	5
1.2.3 Water Quality – Operational Testing	7
1.2.4 Water Quality – Chemical Testing	8
1.2.5 Water Quality – Lead, Alkalinity and pH (Semi-Annual)	10
1.2.7 Water Quality – Sodium & Fluoride (60 Months).....	11
1.3 Reporting	11
1.3.1 Annual Report (Section 11)	11
1.3.2 Summary Report (Schedule 22).....	12
1.4 Third Party Inspections & Results.....	12
1.5 Drinking Water Quality Management Standard (DWQMS).....	12
1.5.1 Risk Assessment.....	12
1.5.2 Review & Provision of Infrastructure.....	13
1.5.3 Internal Audits	13
1.5.4 External Audits	13
1.5.5 Management Review	13
2. Operations & Maintenance	14
2.1 Major Maintenance, Repair & Capital	14
2.2 Call-Ins	14
2.3 Community Complaints/Inquires	15
3.1 Health & Safety Incidents	15
3.2 Health & Safety Training.....	16

Note: This report may not represent the most recent available data. In the following months report, missing data will be added.

1. Process Performance & Regulatory Compliance

1.1 Summary of Non-Compliances & AWQIs

From **January 1, 2025 to January 31, 2025:**

- Number of Non-Compliances = **0**
- Number of Adverse Water Quality Incidents (AWQIs) = **0**

The table below is a summary of Wasaga Beach DWS performance in accordance with the regulatory limits in:

- Municipal Drinking Water License (MDWL) 131-101, Issue 4, expires March 16, 2026
- Permit To Take Water (PTTW) 8041-BFHJV2, expires December 31, 2024
 - Note: PTTW #8041-BFHJV2 is currently undergoing a renewal by the Ministry PTTW Branch; the currently PTTW will remain in effect until a new permit is issued.
- Ontario Regulation 170/03 and 169/03

2025	Non-Compliances	AWQIs
January	0	0
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

1.1.1 Description of Non-Compliances

The following is a summary of the requirements of the Safe Drinking Water Act (SDWA), Ontario Regulation 170/03 and 169/03, Certificates of Approval (CofAs), Drinking Water Works Permit (DWWP), Municipal Drinking Water License (MDWL), and any orders applicable to the system that were not during the time period covered by this report; including duration and measures taken to correct a failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

1.1.2 Description of AWQIs

The following contains details on notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to the Spills Action Centre:

Date of Incident (yyyy/mm/dd)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (yyyy/mm/dd)
N/A	N/A	N/A	N/A	N/A	N/A

1.2 Summary of Process Performance

1.2.1 Flow – Raw and Treated

1.2.1.1 Raw Water Flow: Jenetta and Powerline Pumphouses

During the reporting period, the raw water takings at the Jenetta and Powerline Pumphouses were **within the limits** of the current PTTW as per the summary of the maximum daily flow for the month.

2025	Jenetta Pumphouse		Powerline Pumphouse	
	Maximum Daily Flow (m ³ /day)	Within Limits (15,707.52 m ³)	Maximum Daily Flow (m ³ /day)	Within Limits (15,707.52 m ³)
January	2,517	Yes	4,604	Yes
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

1.2.1.2 Treated Water Flow: Jenetta Pumphouse

During the reporting period, the Jenetta Pumphouse operated **within the rated capacity** set out in current MDWL.

2025	Average Flow (m ³ /d)	% of Rated Capacity	Maximum Flow (m ³ /d)	% of Rated Capacity	Within Limits (15,707.52 m ³ /d)
January	1,958.90	12.47	2,517	16.02	Yes
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

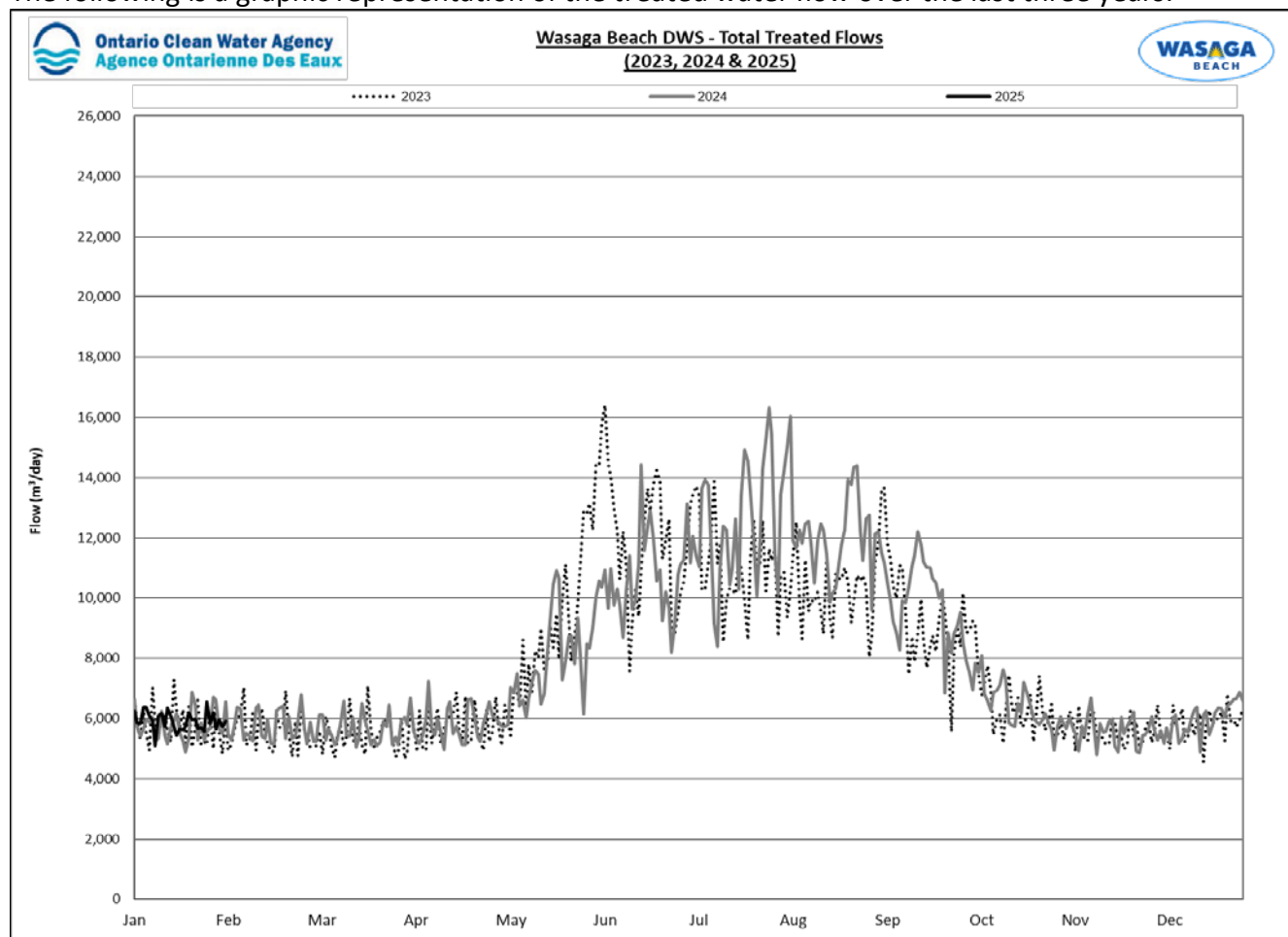
1.2.1.3 Treated Water Flow: Powerline Pumphouse

During the reporting period, the Powerline Pumphouse operated **within the rated capacity** set out in current MDWL.

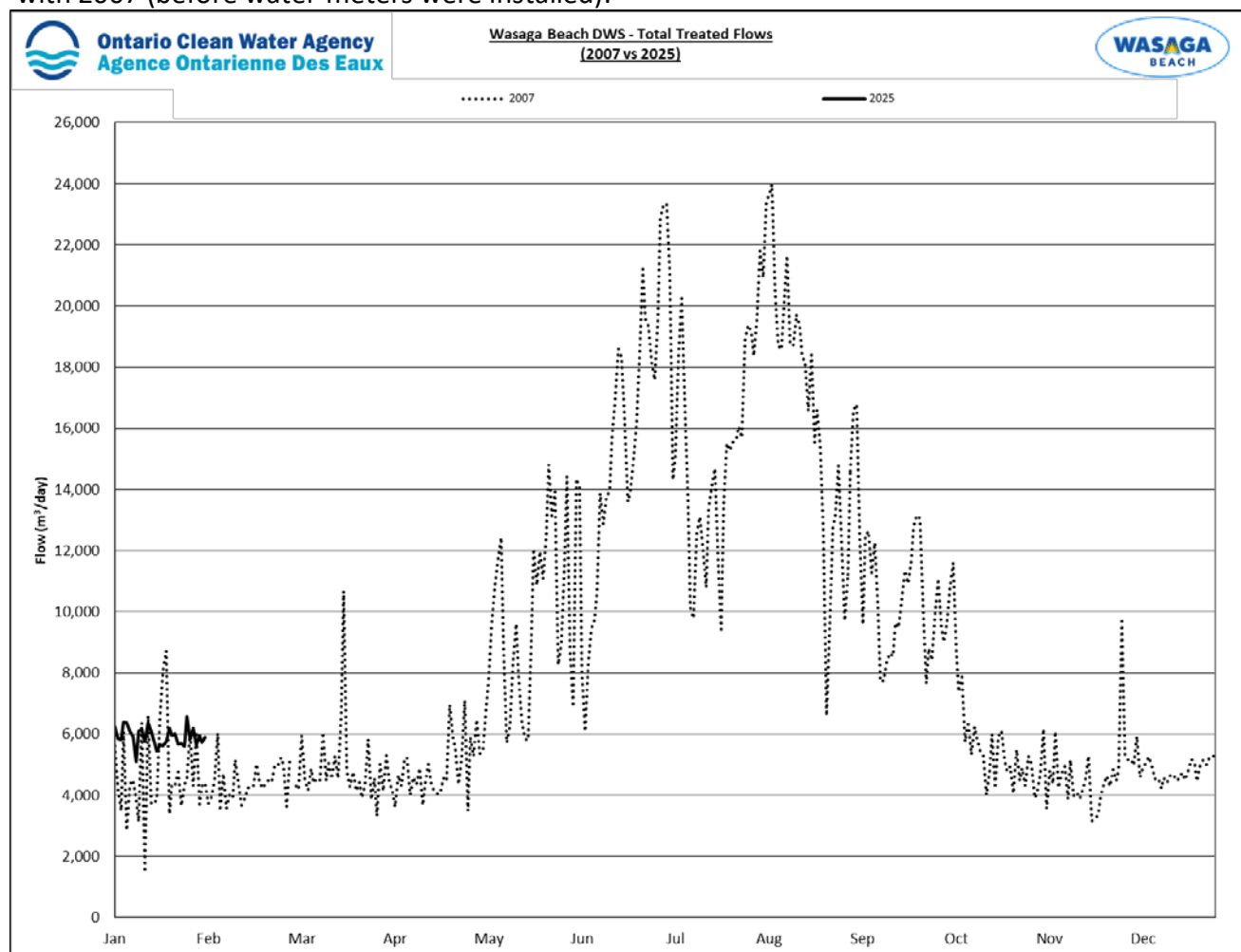
2025	Average Flow (m ³ /d)	% of Rated Capacity	Maximum Flow (m ³ /d)	% of Rated Capacity	Within Limits (15,707.52 m ³ /d)
January	3,955.94	25.19	4,642	29.55	Yes
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

1.2.1.4 Treated Water Flow: Comparison with Previous Years [Graphs]

The following is a graphic representation of the treated water flow over the last three years:



The following is a graphic representation of the comparison of treated water of flow in 2025 with 2007 (before water-meters were installed):



1.2.2 Water Quality – Microbiological Testing

1.2.2.1 Raw Water Quality: Jenetta Wells and Powerline Wells

2025	# of Samples	E.Coli (cfu/100mL)			Total Coliforms (cfu/100mL)		
		Minimum	Maximum	Within Limits? ⁺	Minimum	Maximum	Within Limits? ⁺
January	24	0	0	N/A	0	0	N/A
February							
March							
April							
May							
June							
July							
August							
September							
October							

2025	# of Samples	E.Coli (cfu/100mL)			Total Coliforms (cfu/100mL)		
		Minimum	Maximum	Within Limits? ⁺	Minimum	Maximum	Within Limits? ⁺
November							
December							
YTD	24	0	0	N/A	0	0	N/A

*Raw water bacteriological samples do not have regulatory limits.

1.2.2.2 Treated Water Quality: Jenetta and Powerline Pumphouses

2025	# of Samples	E. Coli (0 cfu/100mL)			Total Coliforms (0 cfu/100mL)			HPC ⁺ (cfu/100mL)		
		Min.	Max.	Within Limits?	Min.	Max.	Within Limits?	Min.	Max.	Within Limits?
January	8	0	0	N/A	0	0	N/A	<10	10	Yes
February										
March										
April										
May										
June										
July										
August										
September										
October										
November										
December										
YTD	8	0	0	N/A	0	0	N/A	<10	10	Yes

* There is no regulatory limit for Heterotrophic Plate Count (HPC); it is used as an indicator test.

1.2.2.3 Distribution Water Quality: Wasaga Beach

2025	# of Samples	E. Coli (0 cfu/100mL)			Total Coliforms (0 cfu/100mL)			HPC ⁺ (cfu/100mL)			
		Min	Max	Within Limits?	Min	Max	Within Limits?	# of Samples	Min	Max	Within Limits?
January	36	0	0	N/A	0	0	N/A	12	<10	10	Yes
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
YTD	36	0	0	N/A	0	0	N/A	12	<10	10	Yes

* There is no regulatory limit for Heterotrophic Plate Count (HPC); it is used as an indicator test. At least 25% of distribution samples must be tested for Heterotrophic Plate Count (HPC)

1.2.3 Water Quality – Operational Testing

1.2.3.1 Treated Water Quality: Jenetta Pumphouse, Free Chlorine Residual

2025	Minimum Chlorine (mg/L)	Maximum Chlorine (mg/L)	Within Limits? (CT Achieved)
January	1.22	2.38	Yes
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

1.2.3.2 Treated Water Quality: Powerline Pumphouse, Free Chlorine Residual

2025	Minimum Chlorine (mg/L)	Maximum Chlorine (mg/L)	Within Limits? (CT Achieved)
January	1.25	2.01	Yes
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

1.2.3.3 Distribution Water Quality: Wasaga Beach System, Free Chlorine Residual

2025	Minimum Chlorine (mg/L)	Maximum Chlorine (mg/L)	Within Limits? (>0.05 mg/L)
January	1.06	2.20	Yes
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

1.2.4 Water Quality – Chemical Testing

1.2.4.1 Treated Water Quality: Jenetta and Powerline Pumphouses, Nitrites (Quarterly)

2025	Jenetta Pumphouse		Powerline Pumphouse	
	Nitrite Concentration (mg/L)	Within Limits? (1 mg/L)	Nitrite Concentration (mg/L)	Within Limits? (1 mg/L)
January	0.003 < MDL	Yes	0.003 < MDL	Yes
February	-	-	-	-
March	-	-	-	-
April				
May	-	-	-	-
June	-	-	-	-
July				
August	-	-	-	-
September	-	-	-	-
October				
November	-	-	-	-
December	-	-	-	-

* Where MDL refers to the Minimum Detection Limit.

1.2.4.2 Treated Water Quality: Jenetta and Powerline Pumphouses, Nitrates (Quarterly)

2025	Jenetta Pumphouse		Powerline Pumphouse	
	Nitrate Concentration (mg/L)	Within Limits? (10 mg/L)	Nitrate Concentration (mg/L)	Within Limits? (10 mg/L)
January	0.006 < MDL	Yes	0.006 < MDL	Yes
February	-	-	-	-
March	-	-	-	-
April				
May	-	-	-	-
June	-	-	-	-
July				
August	-	-	-	-
September	-	-	-	-
October				
November	-	-	-	-
December	-	-	-	-

* Where MDL refers to the Minimum Detection Limit.

1.2.4.3 Distribution Water Quality: Total Trihalomethanes (TTHMs) (Quarterly)

2025	TTHM Concentration (µg/L)	Running Annual Average (µg/L)	Within Limits? (100 µg/L)
January	20.00	24.00	Yes
February	-	-	-
March	-	-	-
April			
May	-	-	-
June	-	-	-
July			
August	-	-	-
September	-	-	-
October			
November	-	-	-
December	-	-	-

1.2.4.4 Distribution Water Quality: Haloacetic Acids (HAAs) (Quarterly)

2025	HAA Concentration (µg/L)	Running Annual Average (µg/L)	Within Limits? (80 µg/L)
January	5.3 <MDL	5.3 <MDL	Yes
February	-	-	-
March	-	-	-
April			
May	-	-	-
June	-	-	-
July			
August	-	-	-
September	-	-	-
October			
November	-	-	-
December	-	-	-

* Where MDL refers to the Minimum Detection Limit.

1.2.5 Water Quality – Lead, Alkalinity and pH (Semi-Annual)

1.2.5.1 Distribution Water: Wasaga Beach

Lead Semi-Annual sampling is required every 36 months and twice in the applicable year; once in the period from December 15th to April 15th and once in the period June 15th to October 15th. Lead sampling is next required in **January** and **July, 2026**; the latest samples were taken in January and July 2023 and those results were **within the regulatory limits**

Alkalinity and pH Semi-Annual sampling is required twice a year; once in the period from December 15th to April 15th and once in the period June 15th to October 15th.

	# of Samples	Lead (µg/L)			Alkalinity (mg/L)			pH		
		Min.	Max.	Within Limits? (10 µg/L)	Min.	Max.	Within Limits? (30-500 mg/L)	Min.	Max.	Within Limits? (6.5-8.5)
January	4	-	-	-	176	193	Yes	7.70	8.00	Yes
July	4	-	-	-						

1.2.6 Water Quality – Schedule 23 & Schedule 24 (36 Months)

1.2.6.1 Treated Water: Jenetta and Powerline Pumphouses

Treated water Inorganic and Organic chemicals were last tested on **January 18, 2024** and the sample results were **within the regulatory limits** as per O. Reg. 169/03. The next set of Schedule 23 and Schedule 24 samples are scheduled to be taken in January, 2027.

1.2.7 Water Quality – Sodium & Fluoride (60 Months)

1.2.7.1 Treated Water: Jenetta and Powerline Pumphouses

Treated water sodium and fluoride were last sampled on **July 18, 2023** and the sample results were **within regulatory limits**. The next set of sodium and fluoride samples is scheduled for **July, 2028**.

1.3 Reporting

A summary of the reports submitted by OCWA to/on behalf of the Town are summarized in the table below:

Report	Submission Frequency	Submit To	Last Submission Date
Annual Report (Section 11)	Annually	Owner	February 27, 2024
Summary Report (Schedule 22)	Annually	Owner	March 5, 2024

1.3.1 Annual Report (Section 11)

As required by Section 11 of O. Reg. 170/03, OCWA prepares a report for the Town that covers the period from January 1 to December 31 by no later than February 28 of the following year. The annual report must:

- contain a brief description of the drinking water system, including a list of water treatment chemicals used by the system during the period covered by the report;
- summarize any reports made to the Ministry under subsection 18 (1) of the Act or section 16-4 of Schedule 16 during the period covered by the report;
- summarize the results of tests required under this Regulation, or under an approval, municipal drinking water license or order, including an OWRA order, during the period covered by the report and, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter;
- describe any corrective actions taken under Schedule 17 or 18 during the period covered by the report;
- describe any major expenses incurred during the period covered by the report to install, repair or replace required equipment;
- in the case of a large municipal residential system or a small municipal residential system, include a statement of where a report prepared under Schedule 22 will be available for inspection under subsection 12 (4); and
- in the case of a large municipal residential system, small municipal residential system or non-municipal year-round residential system, specify the number of points sampled during the periods described in subsection 15.1-4 (2) or subsection 15.1-5 (5) of Schedule 15.1 to the Regulation, the number of samples taken, and the number of points where a sample exceeded the prescribed standard for lead during those periods. O. Reg. 170/03, s. 11 (6); O. Reg. 418/09, s. 8; O. Reg. 458/16, s. 6 (1).

“The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. If a drinking water system is connected to and receives all of its drinking water from another drinking water system, the owner of the system that obtains the water shall ensure that a copy of an annual report for the system from which the water is obtained is given, without charge, to every person who requests a copy. Every time that an annual report is prepared for a drinking water system, the owner of the system shall ensure that effective steps are taken to advise users of water from the system that copies of the report are available, without charge, and of how a copy may be obtained. If the DWS serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet.”

1.3.2 Summary Report (Schedule 22)

As required by Schedule 22 of O. Reg. 170/03 OCWA prepares a report on behalf of the Town by no later than March 31 each year for the preceding year. This report is to be given to members of council.

“The report must,

- a) List the requirements of the Act, the regulations, the system’s approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- b) For each requirement referred to that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system’s approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.”

1.4 Third Party Inspections & Results

The most recent Ministry of Environment, Conservation and Parks (MECP) inspection was an announced inspection which occurred on **January 10, 2024** for the 2023 reporting year. There were no issues of non-compliance or suggested opportunities for improvement. The final inspection report rating was **100%**.

1.5 Drinking Water Quality Management Standard (DWQMS)

The Ministry of Environment and Climate Change (now MECP) released a revision of the standard (DWQMS Version 2.0) on April 6, 2017. The Wasaga Beach Well Supply System has its own Operational Plan under DWQMS and it has been updated to reflect the requirements outlined in the DWQMS Standards version 2.0.

1.5.1 Risk Assessment

As required by the DWQMS, potential hazardous events and associated risks are ranked and control measures/critical control points are identified during the risk assessment process. A risk assessment is

conducted at least once every 36 months and the currency of the risk assessment is verified at least once a year. The risk assessment verification is included as part of the 36 month risk assessment process.

The last annual risk assessment review was performed on **June 28, 2023**. The 36-month risk assessment was performed on **October 3, 2024**; the next 36-month risk assessment is due in October, 2027.

1.5.2 Review & Provision of Infrastructure

On an annual basis, Operators and the Senior Operations Manager discuss Capital Works requirements. The Senior Operations Manager conducts a review of the drinking water system's infrastructure to assess its adequacy for the operation and maintenance of the system.

The output of the review is a Summary of Capital Works Recommendations that is submitted to the owner for review and comment (typically in autumn). Together with the owner, timelines and responsibilities for implementation of priority items are determined and documented. The Senior Operations Manager ensures that results of the review are included as input to the Management Review process.

1.5.3 Internal Audits

As required by DWQMS, internal audits occur at least once every calendar year. **June 20, 2024**, the last internal audit was completed. The purpose of the internal audit is to ensure that the requirements of DWQMS were met, and that measurable steps are being taken to continually improve.

1.5.4 External Audits

Annually, an external audit is performed by a third-party (SAI Global) so that the Operating Authority may maintain their accreditation of the facility. The external audits run on a 3-year cycle as follows:

- Full scope (re)accreditation
- S1: Surveillance Audit
- S2: Surveillance Audit

The Wasaga Beach DWS underwent a **Full scope (re) accreditation** audit on February 7 (part 1) and March 8 (part 2) in 2022. Reaccreditation by SAI Global was issued on March 17, 2022 and remains valid for three years. The Wasaga Beach Well Supply System underwent a **12 Month Surveillance System 2 Audit** on February 27, 2024. The result was zero non-conformances and zero opportunities for improvement.

1.5.5 Management Review

A Management Review is to be completed at least once every calendar year and the minutes from the Management Review are sent to the Town following the completion of the review. The most recent Joint-Management Review with the Town of Wasaga Beach was completed on **October 13, 2024**. During the management review, participants are required to review:

- a. incidents of regulatory non-compliance,
- b. incidents of adverse drinking-water tests,
- c. deviations from critical control point limits and response actions,
- d. the efficacy of the risk assessment process,
- e. internal and third-party audit results,
- f. results of emergency response testing,
- g. operational performance,

- h. raw water supply and drinking water quality trends,
- i. follow-up on action items from previous management reviews,
- j. the status of management action items identified between reviews,
- k. changes that could affect the Quality Management System,
- l. consumer feedback,
- m. the resources needed to maintain the Quality Management System,
- n. the results of the infrastructure review,
- o. Operational Plan currency, content and updates, and
- p. Staff suggestions.
- q. Review/consideration of Best Management Practices *[new for DWQMS 2.0]*

2. Operations & Maintenance

2.1 Major Maintenance, Repair & Capital

2025	Maintenance, Repair & Capital Summary
January	<ul style="list-style-type: none"> Analyzer Lab Turbidity & Chlorine Calibration/Testing (PM) Facility Health and Safety Inspection (PM) Diesel Genset Testing (PM) Alarm Dialer Testing (PM) Well Monitoring Inspection (PM) MCC Testing (PM) Jenetta DWS Gas Heater Repairs (CORR) Powerline DWS High Lift Pump #3 Refurbishment – In Progress (CAP) Powerline and Jenetta DWS Well #2 Level Transducer Replacements – In Progress (CAP)
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

2.2 Call-Ins

2025	# of Call-Ins	Details of Call-Ins
January	7	<ul style="list-style-type: none"> Jan 9, Jenetta pre-chlorine HI/LOW ALARM Jan 10, Jenetta pre-chlorine HI/LOW ALARM Jan 11, Jenetta pre-chlorine HI/LOW ALARM Jan 12, Jenetta pre-chlorine HI/LOW ALARM Jan 13, Jenetta pre-chlorine HI/LOW ALARM Jan 26, Reservoir Chlorine HI/LOW ALARM

2025	# of Call-Ins	Details of Call-Ins
		<ul style="list-style-type: none"> Jan 29, Powerline Well 3 ALARM
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

2.3 Community Complaints/Inquires

2025	# of Comm. Complaints	Details of Community Complaints/Inquires
January	1	<ul style="list-style-type: none"> Water hardness inquiry
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

3. Health & Safety

3.1 Health & Safety Incidents

From **January 1, 2025** to **January 31, 2025**:

- Number of Health & Safety Incidents Reported = 0

2025	Health & Safety Incidents	
	# Reported	Details
January	0	N/A
February		
March		
April		
May		
June		
July		
August		

2025	Health & Safety Incidents	
	# Reported	Details
September		
October		
November		
December		

3.2 Health & Safety Training

Refer to Section 3.2 in the Wasaga Beach WPCP Monthly Performance Report for safety topics/training provided to staff during this reporting period.