

**Ministry of the Environment,  
Conservation and Parks**  
*Drinking Water and Environmental  
Compliance Division*

**Ministère de l'Environnement de la  
Protection de la nature et des Parcs**  
*Division de la conformité en matière d'eau  
potable et d'environnement*



Central Region

Région du Centre

**Barrie District Office**  
1201-54 Cedar Pointe Drive  
Barrie ON L4N 5R7  
Tel: (705) 739-6441  
Toll Free: 1-800-890-8511  
Fax: (705) 739-6440

**Bureau du district de Barrie**  
1201-54 chemin Cedar Pointe  
Barrie ON L4N 5R7  
Téléphone: (705) 739-6441  
**Sans frais:** 1-800-890-8511  
Télec: (705) 739-6440

March 27, 2025  
Town of Wasaga Beach  
30 Lewis Street  
Wasaga Beach, Ontario  
L9Z 1A1

Attention: Mr. Andrew McNeill - Chief Administrative Officer, CAO  
**Re: Drinking Water System Inspection Report - Wasaga Beach Drinking Water System  
(220002137)**

Please find enclosed the Ministry of the Environment, Conservation and Parks Inspection Report for the Wasaga Beach Drinking Water System (Drinking Water System # 220002137) inspection. The compliance assessment took place on January 30, 2025.

The primary focus of this inspection was to confirm compliance with Ministry of the Environment, Conservation and Parks legislation and control documents, as well as conformance with Ministry drinking water related policies for the inspection period. The Ministry is implementing a rigorous and comprehensive approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as water system management practices.

Section 9 of the Safe Drinking Water Act (Standard of Care) creates a number of obligations for individuals who exercise decision-making authority over municipal drinking water systems. Please be aware that the Ministry has encouraged such individuals, particularly municipal councillors, to take steps to be better informed about the drinking water systems over which they have decision-making authority. These steps could include asking for a copy of this inspection report and a review of its findings. Further information about Section 19 can be found in "Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils" found under "Resources" on the Drinking Water Ontario website at [www.ontario.ca/drinkingwater](http://www.ontario.ca/drinkingwater).

In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation & Enforcement (II&E) Secretariat and advice of internal and risk experts. The Inspection Summary Rating Record (IRR), included as Appendix A of the inspection report, provides the Ministry, the system owner and the associated Public Health Units with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance. IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspector's Annual Report.

If you have any questions or concerns regarding the rating, please contact Sheri Broeckel, Drinking Water Program Supervisor, at 705-716-3712.

If you have any questions or concerns regarding this inspection report, please contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to be 'DL' followed by a long horizontal stroke.

Darren Haines  
Drinking Water Inspector/ Provincial Officer  
Ministry of the Environment, Conservation and Parks  
Barrie District Office  
(705) 733-4513 (cell)  
(705) 739-6350 (Fax)  
darren.haines@ontario.ca

CC      Simcoe Muskoka District Health Unit ([water@smdhu.org](mailto:water@smdhu.org))  
Christina Weider, Simcoe Muskoka District Health Unit  
Kevin Lalonde, Town of Wasaga Beach, Director of Public Works  
Richard Eagle, OCWA, Operations Manager  
Angela Pauze, OCWA, Process Compliance Technician  
Barrie District Office File, Ministry of the Environment, Conservation and Parks



WASAGA BEACH DRINKING WATER SYSTEM  
Physical Address: 700 VETERANS WAY, ,  
WASAGA BEACH, ON L0L 2P0

## INSPECTION REPORT

System Number: 220002137  
Entity: ONTARIO CLEAN WATER  
AGENCY  
CORPORATION OF THE TOWN  
OF WASAGA BEACH  
Inspection Start Date: January 30, 2025  
Site Inspection Date: January 30, 2025  
Inspection End Date: February 25, 2025  
Inspected By: Darren Haines  
Badge #: 759

---

(signature)

## INTRODUCTION

### Purpose

This announced, focused inspection was conducted to confirm compliance with Ministry of the Environment, Conservation and Parks' (MECP) legislation and conformance with ministry drinking water policies and guidelines.

### Scope

The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as management and the operation of the system. The inspection of the drinking water system included both the physical inspection of the component parts of the system listed in section 4 "Systems Components" of the report and the review of data and documents associated with the operation of the drinking water system during the review period.

This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O. Reg. 170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.

This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

### Facility Contacts and Dates

The drinking water system is owned by the Town of Wasaga Beach. OCWA operates the treatment system portion of the Wasaga Beach DWS and obtains all regulatory samples within the distribution system. The Town of Wasaga Beach performs all other operational activities within the distribution system.

The system serves an estimated population of approximately 20,000 people and is categorized as a Large Municipal Residential System.

The inspection review period for this report is from January 10, 2024 to January 30, 2025.

The Ministry met with OCWA staff members Angela Pauze and Colin Kasperavicius as well as Town of Wasaga Beach staff members Kevin Lalonde, Dave Guarasci and Gerald Reu for this inspection.

### Systems/Components

The following sites and systems were assessed as part of the inspection of the drinking water system:

Source

Wells 2,3 and 4 are located within a separate building at the powerline road pumphouse

property. They rotate duty/standby on a weekly basis.

Jenetta Wells 1, 2 and 3 are located within the Jenetta pumphouse. They rotate duty/standby on a weekly basis.

#### Pumphouses

Powerline Road - The Powerline Road facility has a capacity of 15,707 m<sup>3</sup>/day with three drilled groundwater wells. Treatment processes at this facility include a sodium hypochlorite disinfection system and a sodium silicate iron sequestration system. An in-ground 3405 m<sup>3</sup> reservoir and a back-up diesel generator are also provided at this facility.

Jenetta pumphouses - The Jenetta Street facility has a capacity of 15,707 m<sup>3</sup>/day with three drilled groundwater wells. Treatment processes at this facility include a sodium hypochlorite disinfection system and a sodium silicate iron sequestration system. A 400 kW diesel back-up generator is provided.

Water Towers - There is one elevated tower located on River Road West (Highway 92) approximately 980 meters North-East of Zoo Park Road. It is a steel spheroid tank, has an approximate height of 38.1 meters, 19.8 meters in width, and an approximate capacity of 2,812 cubic meters. There is another elevated tower located on Sunnidale Road which has a storage capacity of approximately 3000 cubic meters.

The Sunnidale Booster station and a sewage pumping station at the end of the distribution system

(in order to obtain a free chlorine residual) were also visited as part of this inspection.

### **Permissions/Approvals**

This drinking water system was subject to specific conditions contained within the following permissions and/or approvals at the time of the inspection in addition to the requirements of the SDWA and its regulations:

Drinking Water Works Permit: Permit Number 131-201

Municipal Drinking Water Licence: Licence Number 131-101

Permit to Take Water: 8041-BFHJV2, issued September 20, 2019 restricts water taking to 31,415,040L/per day from the combined six raw water wells (Powerline road and Jenetta pump houses).

### **Background and Compliance**

No compliance issues with the Wasaga Beach DWS since the last MECP inspection.

## **NON-COMPLIANCE**

This should not be construed as a confirmation of full compliance with all potential applicable legal requirements. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

## **RECOMMENDATIONS**

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.



### INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

**Ministry Program:** DRINKING WATER | **Regulated Activity:** DW Municipal Residential

<b>Question ID</b>	DWMR1007001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (1)1;			
<b>Question:</b> Was the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner was maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials.  On the Wasaga Beach DWS, the Powerline production Wells #2, Well #3, and Well #4 are located within the pumphouse. The Jenetta production Wells#1, Well #2 and Well #3 are all located within the Jenetta pump house. At the time of the inspection, it appeared that the Owner was maintaining all of the production wells in a sufficient manner in order to prevent the entry of surface water and other foreign materials.			

<b>Question ID</b>	DWMR1009001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were measures in place to protect the groundwater and/or GUDI source in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Measures were in place to protect the groundwater and/or GUDI source.  Drinking Water Works Permit #131-201 and Drinking water Works Licence #131-101 do not stipulate any specific conditions in order to protect the groundwater wells for the Wasaga Beach DWS. An excerpt from the Wasaga Beach 2015 raw water assessment report dated January 2015, states that the Nottawasaga Valley Source Protection Area Approved Assessment Report was completed with Chapter 17 covering the Town of Wasaga Beach Drinking Water Supply System. This report examined the wellhead protection area and assessed groundwater vulnerability with the intent of identifying any drinking water issues. To quote			

from this report "No Drinking Water Issues were identified for the Wasaga Beach municipal water supply system."

<b>Question ID</b>	DWMR1014001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Was flow monitoring performed as required by the Municipal Drinking Water Licence or Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Flow monitoring was performed as required.  Schedule C, Section 2.0 of Municipal Drinking Water Licence# 131-101, requires continuous flow measurement and recording of the flow rate and daily volume of water flowing into and from the treatment systems at both the Powerline Road Pump house and Jenetta Street Pump house locations. To capture flow data, the Owner has installed mechanical flow measuring devices on both the lines from the raw water into the treatment system and the treatment system into the distribution system at both the Jenetta and Powerline pump houses. All flows from the Jenetta and Powerline pump houses are recorded and monitored by the Operating Authority's SCADA system. All flow data was provided to the Ministry as part of this inspection.			

<b>Question ID</b>	DWMR1016001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Was the owner in compliance with the conditions associated with maximum flow rate or the rated/operational capacity in the Municipal Drinking Water Licence?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner was in compliance with the conditions associated with maximum flow rate and/or the rated/operational capacity conditions.  Section 1 of Schedule C of Drinking Water Licence# 131-101, issued on 8/30/2022 provides the rated capacity of 15,707 m3/day for the Powerline facility and 15,707 m3/day for the Jenetta facility. Based on flow records provided to the Ministry by the Operating Authority, for the Wasaga Beach DWS, none of the above stated maximum flow rate parameters were exceeded during the inspection review period. The maximum daily flow for the Powerline facility during the review period was 9717m3 in June 2024 and for Jenetta was 8878m3 in September 2024.			

<b>Question ID</b>	DWMR1018001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner ensured that equipment was installed as required.			

<b>Question ID</b>	DWMR1021001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were Form 2 documents prepared as required?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Form 2 documents were prepared as required.  The Operating Authority submitted to the Ministry four Form 2 submissions for the Wasaga Beach DWS during the review period. The Form 2 submissions were for the following: Jenetta pumphouse piping; Well 4 motor and associated equipment; new monitoring well probe and equipment; and Powerline pumphouse sodium hypochlorite tank, level sensor and associated equipment.			

<b>Question ID</b>	DWMR1025001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were all parts of the drinking water system that came in contact with drinking water disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All parts of the drinking water system were disinfected as required.			

<b>Question ID</b>	DWMR1023001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);			

**Question:**

Did records indicate that the treatment equipment was operated in a manner that achieved the design capabilities prescribed by O. Reg. 170/03, Drinking Water Works Permit and/or Municipal Drinking Water Licence at all times that water was being supplied to consumers?

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities prescribed.

Section 1-3 of Schedule 1 Ontario Regulation (O.Reg.) 170/03 requires the Owner of a drinking water system that obtains water from a raw water supply that is ground water to ensure provision of water treatment equipment that is designed to be capable of achieving, at all times, primary disinfection in accordance with the Ministry's Procedure for Disinfection of Drinking Water in Ontario, including at least 99 per cent (2.0-log) removal or inactivation of viruses by the time water enters the distribution system. This is the case for the treatment train comprising the Wasaga Beach drinking water system.

To satisfy these requirements, the Owner/Operating Authority has installed free available chlorine residual chemical disinfection systems, and employs the CT disinfection concept to quantify the capability of the chemical disinfection system and ensure the provision of effective pathogen inactivation for primary disinfection purposes.

The Operating Authority provide CT calculations for the Jenetta and Powerline Road pump houses as part of this inspection.

Documents viewed and observations made indicate that the primary disinfection treatment equipment was being operated and CT was being achieved at all times water was being conveyed into the distribution system in accordance with Schedule 1 of O.Reg.170/03 and MDWL 131-101.

Question ID	DWMR1024001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);</p>			
<p><b>Question:</b> Did records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required.</p> <p>During the review of records provided by the Owner and Operating Authority, it was found that during the inspection review period, that all of the free chlorine residuals obtained by system operators within the Wasaga Beach distribution system, had residuals above 0.05 mg/L. Secondary disinfectant residuals are monitored by the Owner/Operating Authority through the</p>			

use of continuous chlorine analyzers, which are linked to the Owner's SCADA system and through the collection of weekly distribution chlorine residuals obtained by system operators.

<b>Question ID</b>	DWMR1033001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-2   (3); SDWA   O. Reg. 170/03   7-2   (4);			
<b>Question:</b> Was secondary disinfectant residual tested as required for the large municipal residential distribution system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Secondary disinfectant residual was tested as required.  Secondary disinfection residual sampling and testing is being performed by continuous monitoring equipment located in the distribution system at the Sunnidale Booster station and the Wasaga Beach Wastewater Treatment Plant (30 Woodland Drive). The Owner and Operating Authority staff also utilize handheld colourimeters to perform chlorine residual tests within the distribution system on a daily basis as well as to perform comparisons for calibration of the on-line analyzers several times each week.			

<b>Question ID</b>	DWMR1030001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-2   (1); SDWA   O. Reg. 170/03   7-2   (2);			
<b>Question:</b> Was primary disinfection chlorine monitoring being conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit or at/near a location where the intended CT had just been achieved?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Primary disinfection chlorine monitoring was conducted as required.  The Owner has installed, at both the Powerline Road and Jenetta pump house, a free chlorine residual analyzer which is supplied with continuous samples taken from a point where the intended contact time has just been completed for primary disinfection purposes. Both analyzers are linked via a Programmable Logic Controller (PLC) to the Supervisory Control and Data Acquisition (SCADA) system for monitoring and alarming purposes. Additional pre and post contact time analyzers are installed at both treatment facilities to provide an advance warning of potential disinfection issues.			

<b>Question ID</b>	DWMR1035001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)1-4;			

**Question:**

Were operators examining continuous monitoring test results and did they examine the results within 72 hours of the test?

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

Operators were examining continuous monitoring test results as required.

Based on documents given to the Ministry by the Owner and Operating Authority for this inspection, it was shown that Operators for both parties (OCWA and Town of Wasaga Beach) examine continuous monitoring test results within 72 hours after the test is conducted and make a note of this review within a log sheet maintained at the Jenetta Street and Powerline Road facilities.

Specifically, Operators note minimum, average and maximum readings of chlorine residual and turbidity at the Powerline Road and Jenetta pumphouse locations as well as chlorine at the distribution system analyzer located at the Water Pollution Control Plant.

<b>Question ID</b>	DWMR1038001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)1-4;			
<b>Question:</b> Was continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format.			
Continuous monitoring equipment at the Jenetta and Powerline road pump houses as well as within the distribution system (Sunnidale booster station, Wasaga Beach WPCP) provides data to the SCADA system on a continuous basis.			

<b>Question ID</b>	DWMR1037001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)5-10; SDWA   O. Reg. 170/03   6-5   (1.1);			
<b>Question:</b> Were all continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or Municipal Drinking Water Licence or Drinking Water Works Permit or order, equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6?			

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

All required continuous monitoring equipment utilized for sampling and testing were equipped with alarms or shut-off mechanisms that satisfied the standards

The Operating Authority utilizes continuous analyzers to monitor chlorine residuals for primary and secondary disinfection as well as turbidity on the Wasaga Beach DWS. These analyzers are linked to the Owner's SCADA system for monitoring and alarming purposes. Should continuous monitoring equipment generate a measurement of results above or below the prescribed set points ( Pre analyzer low 0.80mg/L, High 2.50mg/L - Post analyzer Low 0.40mg/L, Post analyzer high of 2.00mg/L) for chlorine residual, the continuous monitoring equipment malfunctions, or if there is a loss of power to the continuous monitoring equipment, an alarm is sounded, the well pumps are locked out and the on-duty Operator notified.

Documents provided to the Ministry by the Operating Authority indicated that continuous monitoring equipment alarms are regularly tested and the results documented on the daily sheets and in the pumphouse logbook.

Note: At the time of inspection, the Operating Authority put the continuous chlorine analyzer at the Powerline pumphouse into alarm to verify to the Ministry that an alarm was generated. The Ministry confirmed that the alarm company sent a message to the OIC advising of the alarm condition.

<b>Question ID</b>	DWMR1040001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10;			
<b>Question:</b> Were all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All continuous analysers were calibrated, maintained, and operated as required.			
Documents provided by the Operating Authority for the Wasaga Beach DWS indicated that they perform a weekly maintenance check and calibrations on all the online chlorine analyzers and turbidity analyzers with their HACH handheld colourimeters. All HACH colourimeters were calibrated by an external contractor in August 2024. Monthly verification records for all handheld colourimeters used by the Operating Authority, which are used to perform weekly calibrations on all chlorine analyzers, were provided as part of this inspection.			

<b>Question ID</b>	DWMR1108001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)5-10; SDWA   O. Reg. 170/03   6-5   (1.1);			

<p><b>Question:</b> Where continuous monitoring equipment used for the monitoring of free chlorine residual, total chlorine residual, combined chlorine residual or turbidity, required by O. Reg. 170/03, Municipal Drinking Water Licence, Drinking Water Works Permit, or order triggered an alarm or an automatic shut-off, did a qualified person respond as required and take appropriate actions?</p>
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> A qualified person responded as required and took appropriate actions.</p> <p>Logbooks that were provided by the Operating Authority were reviewed where the Operator (or the on-call Operator if the call was received after hours) responded to alarm calls during the review period. In all cases, the Operator/On-call Operator responded in a timely manner and took the appropriate actions. The Operating Authority does have a written procedure for responding to alarms which is found within their Emergency and Contingency plan.</p>

Question ID	DWMR1099001	Question Type	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Do records show that water provided by the drinking water system met the Ontario Drinking Water Quality Standards?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records showed that all water sample results met the Ontario Drinking Water Quality Standards.			

Question ID	DWMR1083001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   10-3;			
<b>Question:</b> Were treated microbiological sampling requirements prescribed by Schedule 10-3 of O. Reg. 170/03 for large municipal residential systems met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Treated microbiological sampling requirements were met.			
Subsection 10-3 of schedule 10 of O. Reg. 170 requires that the Owner and the operating authority of a large municipal residential DWS such as the Wasaga Beach DWS, ensure that a water sample is taken at least once every week from the point at which water enters the distribution system. The Owner and operating authority are required to ensure that each of			



these samples are tested for E.coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic plate count.  
Records reviewed for this inspection indicate that the Owner/Operating Authority has complied with these requirements. Documents indicate that treated water point of entry locations (Powerline Road and Jenetta) are sampled and tested once per week and tested for Escherichia coli, total coliforms, and general bacteria population expressed as colony counts on a heterotrophic plate count.

Question ID	DWMR1081001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   10-2   (1); SDWA   O. Reg. 170/03   10-2   (2); SDWA   O. Reg. 170/03   10-2   (3);</p>			
<p><b>Question:</b> Were distribution microbiological sampling requirements prescribed by Schedule 10-2 of O. Reg. 170/03 for large municipal residential systems met?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Distribution microbiological sampling requirements were met.</p> <p>Subsection 10-2 of Schedule 10 Ontario Regulation 170/03 requires the Owner and the operating authority of a large municipal residential drinking water system to collect at a minimum 8 microbiological samples within the distribution system plus one additional sample for every 1000 people served on a monthly basis; with at least one distribution sample taken each week.</p> <p>Subsection 10- 2 further stipulates that each of the distribution samples collected are tested for Escherichia coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic plate count, if subsection 2-5 (1) of Schedule 2 applies to the system, as is the case for the Wasaga Beach drinking water system.</p> <p>Records provided and reviewed in the course of this inspection indicate that the Operating Authority has complied with these sampling requirements as stated above. Documents indicate that typically 8 (and as many as 10) distribution water samples were obtained and tested once per week of which at least two of these samples were additionally tested for Heterotrophic Plate Count (HPC) in addition to Escherichia Coli and Total Coliform bacteria.</p>			

Question ID	DWMR1096001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-3   (1);</p>			
<p><b>Question:</b> Did records confirm that chlorine residual tests were conducted at the same time and location as microbiological samples?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records confirmed that chlorine residual tests were conducted as required.</p>			

A review of the Wasaga Beach DWS records provided by the Owner for the inspection period found that each time a microbiological sample was taken by the Owner /Operating Authority in the distribution system or at the pump house, a corresponding chlorine residual was also obtained. All of the in-house monitoring and sampling information that the Operating Authority undertakes for the Wasaga Beach DWS is recorded on a monthly data spreadsheet as well as on the sample submission sheet.

Question ID	DWMR1084001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-2;			
<b>Question:</b> Were inorganic parameter sampling requirements prescribed by Schedule 13-2 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Inorganic parameter sampling requirements were met.			
<p>Section 13-2 of Schedule 13 Ontario Regulation 170/03 requires the Owner and the operating authority of a large municipal residential drinking water system to ensure that at least one water sample is taken every 36 months if the system obtains water from a raw water supply that is ground water, such is the case for the Wasaga Beach drinking water system, and have those samples tested for every parameter set out in Schedule 23. The Operating Authority obtained Inorganic sample analysis for the Wasaga Beach DWS during the review period on January 17, 2024. The Operating Authority did not report any AWQI's as a result of these samples and is not required to obtain Inorganic samples again until January 2027.</p>			

Question ID	DWMR1085001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-4   (1); SDWA   O. Reg. 170/03   13-4   (2); SDWA   O. Reg. 170/03   13-4   (3);			
<b>Question:</b> Were organic parameter sampling requirements prescribed by Schedule 13-4 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Organic parameter sampling requirements were met.			
<p>Section 13-4 of Schedule 13 Ontario Regulation 170/03 requires the Owner and the operating authority of a large municipal residential drinking water system to ensure that at least one water sample is taken every 36 months if the system obtains water from a raw water supply that is ground water, such is the case for the Wasaga Beach drinking</p>			

water system, and have those samples tested for every parameter set out in Schedule 24. The Operating Authority obtained Organic sample analysis for the Wasaga Beach DWS on January 17, 2024. The Operating Authority did not report any AWQI's as a result of these samples and is not required to obtain Organic samples again until January 2027.

Question ID	DWMR1086001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-6.1   (1); SDWA   O. Reg. 170/03   13-6.1   (2); SDWA   O. Reg. 170/03   13-6.1   (3); SDWA   O. Reg. 170/03   13-6.1   (4); SDWA   O. Reg. 170/03   13-6.1   (5); SDWA   O. Reg. 170/03   13-6.1   (6);</p>			
<p><b>Question:</b> Were haloacetic acid sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Haloacetic acid sampling requirements were met.</p> <p>Section 13-6.1 requires the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system to ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water systems distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of haloacetic acids. The owner of the drinking water system and the operating authority for the system shall also ensure that each of the samples taken under subsection (1) is tested for haloacetic acids. The Operating Authority conducted this required Haloacetic acid monitoring on January 17, 2024, April 22, 2024, July 17, 2024 and October 8, 2024. No HAA AWQI's were reported by the Owner/Operating Authority as a result of those samples.</p>			

Question ID	DWMR1087001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-6   (1); SDWA   O. Reg. 170/03   13-6   (2); SDWA   O. Reg. 170/03   13-6   (3); SDWA   O. Reg. 170/03   13-6   (4); SDWA   O. Reg. 170/03   13-6   (5); SDWA   O. Reg. 170/03   13-6   (6);</p>			
<p><b>Question:</b> Were trihalomethane sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Trihalomethane sampling requirements were met.</p> <p>Section 13-6 of Schedule 13 Ontario Regulation 170/03 requires the Owner and the operating authority of a large municipal residential drinking water system, such as the Wasaga Beach drinking water system, to ensure that at least one distribution sample is taken every 3 months</p>			

from a point in the drinking-water system's distribution system, or in plumbing that is connected to the drinking water system that is likely to have an elevated potential for the formation of Trihalomethanes (THM's), and tested for Trihalomethanes.  
The Operating Authority conducted this required monitoring on January 17, 2024, April 22, 2024, July 17, 2024 and October 8, 2024. The THM running annual average was below the THM standard of 100ug/L (23.75) as set out in the ODWQS.

<b>Question ID</b>	DWMR1088001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-7;			
<b>Question:</b> Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Nitrate/nitrite sampling requirements were met.			
<p>Section 13-7 of Schedule 13 Ontario Regulation 170/03 requires the Owner and the operating authority of a large municipal residential drinking water system, such as the Wasaga Beach drinking water system, to ensure that at least one distribution sample is taken every 3 months and no more than 120 days from the date of the last sample for Nitrates/Nitrites. The Operating Authority conducted this required monitoring on January 17, 2024, April 22, 2024, July 17, 2024 and October 8, 2024. All of the Nitrate/Nitrite results provided to the Ministry by the Operating Authority were below the standard of 10 mg/L as set out in the ODWQS.</p>			

<b>Question ID</b>	DWMR1089001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-8;			
<b>Question:</b> Were sodium sampling requirements prescribed by Schedule 13-8 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Sodium sampling requirements were met.			
<p>Sections 13-8 of Schedule 13 Ontario Regulation 170/03 requires the Owner and the operating authority of a large municipal residential drinking water system, such as the Wasaga Beach drinking water system, to ensure that at least one water sample is taken every 60 months and tested for Sodium. The Owner/Operating Authority last conducted Sodium sampling on July 18, 2023. The result of the Sodium sample was within the prescribed limits for Sodium. The Owner is not required to conduct Sodium sampling again until July 2028.</p>			

<b>Question ID</b>	DWMR1090001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-9;			
<b>Question:</b> Where fluoridation is not practiced, were fluoride sampling requirements prescribed by Schedule 13-9 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Fluoride sampling requirements were met.			
<p>Section 13-9 of Schedule 13 Ontario Regulation 170/03 requires the Owner and the operating authority of a large municipal residential drinking water system, such as the Wasaga Beach drinking water system to ensure that at least one water sample is taken every 60 months and tested for Fluoride.</p> <p>The Owner/Operating Authority conducted Fluoride sampling on July 21, 2023. The result of the Fluoride sample was within the prescribed limits for Fluoride. The Owner is not required to obtain a Fluoride sample again until July 2028.</p>			

<b>Question ID</b>	DWMR1104001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   16-6   (1); SDWA   O. Reg. 170/03   16-6   (2); SDWA   O. Reg. 170/03   16-6   (3); SDWA   O. Reg. 170/03   16-6   (3.1); SDWA   O. Reg. 170/03   16-6   (3.2); SDWA   O. Reg. 170/03   16-6   (4); SDWA   O. Reg. 170/03   16-6   (5); SDWA   O. Reg. 170/03   16-6   (6);			
<b>Question:</b> Were immediate verbal notification requirements for adverse water quality incidents met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Immediate verbal notification requirements for adverse water quality incidents were met.			
<p>Immediate verbal notifications were made to the Barrie District MECP office, SAC, Town of Wasaga Beach and the SMDHU.</p>			

<b>Question ID</b>	DWMR1101001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   17-1; SDWA   O. Reg. 170/03   17-10   (1); SDWA   O. Reg. 170/03   17-11; SDWA   O. Reg. 170/03   17-12; SDWA   O. Reg. 170/03   17-13; SDWA   O. Reg. 170/03   17-14; SDWA   O. Reg. 170/03   17-2; SDWA   O. Reg. 170/03   17-3; SDWA   O. Reg. 170/03   17-4; SDWA   O. Reg. 170/03   17-5; SDWA   O. Reg. 170/03   17-6; SDWA   O. Reg. 170/03   17-9;			

<p><b>Question:</b> For large municipal residential systems, were corrective actions, including any steps directed by the Medical Officer of Health, taken to address adverse conditions?</p>
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Corrective actions were taken to address adverse conditions.</p> <p>Corrective actions taken by OCWA staff for AWQI 166411 (for improperly disinfected water) were as follows: September 23, 2024</p> <ul style="list-style-type: none"> <li>- 2055 hrs September 22, 2024 – 0130 hrs September 23, 2024 On-call Operator back flushed treated water.</li> <li>- 2246 hrs September 22, 2024 – Wells offline – no flow or water directed to users</li> <li>- 0132 hrs September 23, 2024 – Well flow initiated, disinfection restored – Free chlorine residual 1.0 mg/L.</li> <li>- 0151 hrs September 23, 2024 – Second Well flow initiated, disinfection restored – Free chlorine residual 1.13 mg/L.</li> </ul> <p>Please find attached the AWQI notification and resolution package consisting of Sections 2 (A), and Section 2(B). This email submission confirms that AWQI #16641 is resolved and no further regulatory actions are required.</p>

<b>Question ID</b>	DWMR1114001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner have evidence that, when required, all legal owners associated with the drinking water system were notified of the requirements of the Municipal Drinking Water Licence and Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner had evidence that the required notifications were made.			

<b>Question ID</b>	DWMR1060001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the operations and maintenance manual(s) meet the requirements of the Municipal Drinking Water Licence?			

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

The operations and maintenance manual(s) met the requirements of the Municipal Drinking Water Licence.

The operations and maintenance manuals appear to meet the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.

<b>Question ID</b>	DWMR1062001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-5;			
<b>Question:</b> Did records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03.  Only adequately certified operators are employed by the Owner and Operating Authority to operate the Wasaga Beach drinking water system. These operators conduct all of the operational tests, record all of the results obtained, make all of the log entries, and collect all of the required samples to be sent to the appropriate accredited laboratory.			

<b>Question ID</b>	DWMR1071001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Did the owner provide security measures to protect components of the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner provided security measures to protect components of the drinking water system.  Both the Powerline Road, Jenetta pump house and the Sunnidale booster station are locked and equipped with an intrusion alarm. All three sites are generally visited on a daily basis by operational staff. All other pump stations, sample stations, water towers and reservoirs within the Wasaga Beach distribution system are locked to prevent unauthorized access. Access to all locked premises is restricted solely to the Owner/Operating Authority's water system operators.			

<b>Question ID</b>	DWMR1073001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   23   (1);			
<b>Question:</b> Was an overall responsible operator designated for all subsystems which comprise the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> An overall responsible operator was designated for all subsystem.			
Overall Responsible Operators have been designated by the operating authority (treatment system) and the Owner (Distribution system), who have an overall operational responsibility for the Wasaga Beach drinking water system. Both ORO's are in possession of an operator's certificate (Class 3 and Class 2 respectively) to match the classification of the facility. The Operating Authority/Owner have formally designated an Overall Responsible Operator (ORO) with the provision of a backup ORO in the event the designated ORO is unable to act.			

<b>Question ID</b>	DWMR1074001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   25   (1);			
<b>Question:</b> Were operators-in-charge designated for all subsystems which comprise the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Operators-in-charge were designated for all subsystems.			

<b>Question ID</b>	DWMR1075001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   22;			
<b>Question:</b> Were all operators certified as required?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All operators were certified as required.			
Both the Owner and the Operating Authority provided Operator Certificates, for all personnel that performed work on the Wasaga Beach DWS, to the Ministry as part of this inspection. All Operator Certificates provided by the Owner and the Operating Authority were valid and			



current.

Question ID	DWMR1076001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);			
<b>Question:</b> Were adjustments to the treatment equipment only made by certified operators?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Adjustments to the treatment equipment were only made by certified operators.			

---

**Inspection Rating Record**

---

Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2024-25)

<b>DWS Name:</b> WASAGA BEACH DRINKING WATER SYSTEM
<b>DWS Number:</b> 220002137
<b>DWS Owner:</b> CORPORATION OF THE TOWN OF WASAGA BEACH
<b>Municipal Location:</b> WASAGA BEACH
<b>Regulation:</b> O.REG. 170/03
<b>DWS Category:</b> DW Municipal Residential
<b>Type of Inspection:</b> Focused
<b>Compliance Assessment Start Date:</b> Jan-30-2025
<b>Ministry Office:</b> Barrie District Office

Maximum Risk Rating: 489

Inspection Module	Non Compliance Risk (X out of Y)
Capacity Assessment	0/30
Certification and Training	0/42
Logbooks	0/14
Operations Manuals	0/14
Reporting & Corrective Actions	0/70
Source	0/14
Treatment Processes	0/193
Water Quality Monitoring	0/112
<b>Overall - Calculated</b>	<b>0/489</b>

<b>Inspection Risk Rating:</b>	<b>0.00%</b>
--------------------------------	--------------

<b>Final Inspection Rating:</b>	<b>100.00%</b>
---------------------------------	----------------

Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2024-25)

<b>DWS Name:</b>	WASAGA BEACH DRINKING WATER SYSTEM
<b>DWS Number:</b>	220002137
<b>DWS Owner Name:</b>	CORPORATION OF THE TOWN OF WASAGA BEACH
<b>Municipal Location:</b>	WASAGA BEACH
<b>Regulation:</b>	O.REG. 170/03
<b>DWS Category:</b>	DW Municipal Residential
<b>Type of Inspection:</b>	Focused
<b>Compliance Assessment Start Date:</b>	Jan-30-2025
<b>Ministry Office:</b>	Barrie District Office

*All legislative requirements were met. No detailed rating scores.*

Maximum Question Rating: 489

Inspection Risk Rating:	0.00%
-------------------------	-------

FINAL INSPECTION RATING:	100.00%
--------------------------	---------