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

Central Region

York Durham District Office 230 Westney Road South, 5th Floor Ajax ON L1S 7J5 **Telephone**.: 905-427-5600 **Toll-Free**: 1-800-376-4547 **Fax**: 905-427-5602 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

Région du Centrel

Bureau de district de York Durham 230 route Westney sud, 5e étage Ajax ON L1S 7J5 Téléphone : 905 427-5600 Sans frais : 1-800-376-4547 Télécopieur : 905 427-5602

March 28,2025 Attention: Gayle Jackson Township of Ramara CAO

Re: 2024 Drinking Water Inspection Report South Ramara

Please find enclosed the Ministry of the Environment, Conservation and Parks Inspection Report South Ramara Drinking Water System # 220010681 inspection. The compliance assessment took place on February 12, 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 19 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.

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) will be sent out Monday March 31st 2025, 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 1 (705) 716-3712.

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

Carly Munce

Mure





SOUTH RAMARA DRINKING WATER SYSTEM Physical Address: 3001 SUNTRAC DR, , RAMARA, ON LOK 1B0

INSPECTION REPORT

System Number:220010681Entity:CORPORATION OF THE
TOWNSHIP OF RAMARAInspection Start Date:February 12, 2025Site Inspection Date:February 12, 2025Inspection End Date:March 27, 2025Inspected By:Carly Munce
Badge #:Badge #:1945

We want to hear from you. How was my service? You can provide feedback at 1-888-745-8888 or Ontario.ca/inspectionfeedback



(signature)



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

Question ID	DWMR1012001	Question Type	Legislative		
Legislative R SDWA 31 (*	Legislative Requirement(s): SDWA 31 (1);				
Question:					
Did the owner of the Municip	have a harmful algal bloom monito al Drinking Water Licence?	ring plan in place th	nat met the requirements		
Compliance F The owner had	Response(s)/Corrective Action(s) d a harmful algal bloom monitoring	/Observation(s): plan in place which	met the requirements.		
Condition 6 of Schedule C of Municipal Drinking Water Licence (MDWL) 147-103 Issue Number 4 outlines the requirements of the Harmful Algal Bloom monitoring, reporting and sampling plan required to be in place on or before August 5, 2022. The Plan must be implemented annually during but not limited to the warm seasonal period between June 1 and October 31 each year, or as otherwise directed by the Ministry or local Medical Officer of Health. The Harmful Algal Boom Plan prepared by the Operating Authority issued May 18, 2022 meets the requirements of the MDWL. Visual inspection of the intake for blue green algae and sampling of the raw and treated water for microcystin began June 6, 2022 and are completed weekly from October - June. All microcystin results were below the method detection limit.					
Question ID DWMR1010001 Question Type BMP					
Legislative Requirement(s): Not Applicable					
Question: Were trends in source water quality monitored?					

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

Trends in source water quality were monitored.

Question ID	DWMR1014001	Question Type	Legislative
Legislative Requirement(s): SDWA 31 (1);			



Question:

Was flow monitoring performed as required by the Municipal Drinking Water Licence or Drinking Water Works Permit?

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

Flow monitoring was performed as required.

Condition 2.1 of

Schedule C of Municipal Drinking Water Licence 147-103 Issue Number 4 requires that for each treatment subsystem, continuous flow measurement and recording shall be undertaken for the flow rate and daily volume of treated water that flows from the treatment subsystem to the distribution system, and the flow rate and daily volume of water that flows into the treatment subsystem.

There are three magnetic flow meters installed at the South Ramara Water Treatment Plant, one that measures the raw water entering the South Ramara Water Treatment Plant from Lake Simcoe, one that measures the combined filter effluent and one that measures the water entering the distribution system after the high lift pumps. Each of the flow meters provides a 4-20 mA signal. Raw, filtered and treated water flows are continuously recorded on the SCADA system.

Question ID	DWMR1015001	Question Type	Legislative		
Legislative Requirement(s): SDWA 31 (1);					
Question: Were flow mea Municipal Drin	Question: Were flow measuring devices calibrated or verified in accordance with the requirements of the Municipal Drinking Water Licence?				
Compliance Response(a)/Corrective Action(a)/Observation(a);					

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

Flow measuring devices were calibrated or verified as required.

Question ID	DWMR1016001	Question Type	Legislative	
Legislative Requirement(s): SDWA 31 (1);				
Question: Was the owner in compliance with the conditions associated with maximum flow rate or the rated/operational capacity in the Municipal Drinking Water Licence?				
Compliance Response(s)/Corrective Action(s)/Observation(s): The owner was in compliance with the conditions associated with maximum flow rate and/or the rated/operational capacity conditions.				
Table 1 of Sch Number 4 stat	Table 1 of Schedule C of Municipal Drinking Water Licence 147-103 Issue Number 4 states that the rated capacity for South Ramara Water Treatment System is 387			



m3/day. This value was not exceeded during the inspection review period for the amount of water flowing from the treatment subsystem to the distribution system. There is not a maximum flow rate for South Ramara Drinking Water System in Table 2 of Schedule C of Municipal Drinking Water Licence 147-103 Issue Number 4.

Question ID	DWMR1017001	Question Type	Legislative		
Legislative R	Legislative Requirement(s):				
SDWA 31 (*	SDWA 31 (1);				
Question:	Question:				
Were appropri	Were appropriate records of flows and any capacity exceedances made in accordance with				
the Municipal	the Municipal Drinking Water Licence?				
Compliance Response(s)/Corrective Action(s)/Observation(s): Appropriate records of flows and any capacity exceedances were made as required.					

Question ID	DWMR1013001	Question Type	Legislative		
Legislative R OWRA 34 (equirement(s): 3);				
Question:	Question:				

Was the owner in compliance with all conditions of the Permit To Take Water?

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

The owner was in compliance with all conditions of the Permit To Take Water.

Permit to Take Water {PTTW) 4371-9UYKYB was issued for the water takings from Lake Simcoe for the South Ramara drinking water system on April 22, 2015. The PTIW expires on March 31, 2025. Table 1 of the PTTW limits the water takings to 542,880 litres/day. Condition 4.1 of PTTW 4371-9UYKYB requires that the Permit Holder shall, on each day water is taken under the authorization of this Permit, record the date, the volume of water taken on that date and the rate at which it was taken. The daily volume of water taken shall be measured by a flow meter. The Permit Holder shall keep all records required by this condition current and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request. The Permit Holder, unless otherwise required by the Director, shall submit, on or before March 31st in every year, the daily water taking data collected and recorded for the previous year to the ministry's Water Taking Reporting System.

During the inspection review period the maximum allowed takings identified in the PTTW were not exceeded. The Permit Holder maintains records of the raw water takings measured by the raw water flow meter.



Question ID	DWMR1018001	Question Type	Legislative		
Legislative Requirement(s): SDWA 31 (1);					
Question: Did the owner ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?					
Compliance Response(s)/Corrective Action(s)/Observation(s): The owner ensured that equipment was installed as required.					
Based on observations made at the time of inspection it appears that all equipment installed at the South Ramara water treatment plant is as described in Schedule A of Drinking Water Works Permit 147-203 Issue Number 4. The continuous operational chlorine analyser installed in the distribution system at Mara Shores is not included in the Drinking Water Works Permit. Schedule C of Drinking Water Works Permit 147-203 Issue Number 4 contains the addition of carbon dioxide injection system for adjusting pH to optimize coagulation from 2013.					
Question ID	DWMR1028001	Question Type	Legislative		

Legislative Requirement(s):

SDWA | 31 | (1);

Question:

Were up-to-date plans for the drinking water system made available in such a manner that they could be readily viewed by all persons responsible for all or part of the operation of the drinking water system, in accordance with the Drinking Water Works Permit and Municipal Drinking Water Licence?

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

Plans for the drinking water system were kept up-to-date and made available as required.

Question ID	DWMR1025001	Question Type	Legislative		
Legislative R SDWA 31 (*	Legislative Requirement(s): SDWA 31 (1);				
Question: 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?					
Compliance Response(s)/Corrective Action(s)/Observation(s): All parts of the drinking water system were disinfected as required.					



Section 2.3 of Schedule B of

Drinking Water Works Permit 147-203 Issue Number 4 states that all parts of the drinking water system in contact with drinking water that are added, modified, replaced, extended shall be disinfected in accordance with a procedure approved by the Director or in accordance with the applicable provisions of the following documents:

a) Until August 3, 2022 the ministry's Watermain Disinfection Procedure, dated November 2015. As of August 4, 2022 the ministry's Watermain Disinfection Procedure, dated August 1, 2020.

b) Subject to condition 2.3.2, any updated version of the ministry's Watermain Disinfection Procedure;

c) AWWA C652 – Standard for Disinfection of Water-Storage Facilities;

d) AWWA C653 – Standard for Disinfection of Water Treatment Plants; and e) AWWA C654 – Standard for Disinfection of Wells.

The Operating Authority has developed a Standard Operating Procedure (SOP) for disinfection of drinking water system components. The SOP states that the required standards are to be followed as per the Drinking Water Works Permit.

Question ID DWMR1023001

Question Type | Legislative

Legislative Requirement(s):

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.

Primary disinfection for the South Ramara

Drinking Water System is achieved by chemically assisted filtration and the use of the chlorine contact/concentration time (CT) concept to ensure the provision of effective pathogen inactivation. Two package filtration units, each with a flocculation tank, settling tank and mixed media filter, filter the water after raw water is injected with carbon dioxide, sodium hypochlorite and poly aluminum chloride. One filter train operates at a time. The effective disinfectant contact time required for the CT concept is attained within the two clearwells, one with an approximate operation volume of 103 m3 and one with an approximate operation volume of 103 m3 and one with an approximate operation of the intended contact time, free chlorine residuals are maintained within the distribution system for secondary disinfection purposes.

In efforts to ensure minimum treatment is provided at all times, a series of fail safes have been incorporated into the SCADA system. The alarm set points are at levels intended to afford operators time to respond prior to the chlorine residual dropping below the level required for primary disinfection. Operators perform CT calculations in the event of a low chlorine alarm to confirm that primary disinfection has been achieved. Alarms are tested



regularly to ensure they are functioning properly.

During the inspection review period readings that were above or below the alarm set points were the result of maintenance activities, such as cleaning the analysers, flushing analysers, performing analyser verifications, changing electrolyte or probes, or testing alarms. In fourteen instances there were readings that were outside of the normal operating range that were not the result of maintenance activities and operators responded to each of these instances. Corrective measures were undertaken, and disinfection was not compromised in each instance.

The filter performance criteria as outlined in section 1 of Schedule E of Municipal Drinking Water Licence 147-103 issue number 4 were met during the inspection review period including filtered water turbidity of less than or equal to 0.3 NTU in 95% of the measurements each month.

In order to determine if primary disinfection was achieved at the South Ramara Drinking Water System during the inspection review period, flow rates, free chlorine residuals, turbidity values, clearwell levels, logsheets and logbooks were reviewed. These records indicate that during the inspection review period the treatment equipment was operated as required to achieve the disinfection requirements whenever water was being supplied.

Question ID	DWMR1026001	Question Type	Legislative		
Legislative R SDWA O. Re	Legislative Requirement(s): SDWA O. Reg. 170/03 1-6 (2);				
Question: If primary disir equipment equipment	Question: If primary disinfection equipment did not use chlorination or chloramination, was the equipment equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 1-6 of O. Reg. 170/03?				
Compliance Response(s)/Corrective Action(s)/Observation(s): Primary disinfection equipment was equipped with alarms or shutoff mechanisms that satisfied the standards.					

Question ID	DWMR1027001	Question Type	Legislative	
Legislative Requirement(s):				
SDWA 31 (1);				

Question:

Did the owner have evidence indicating that chemicals and materials that came in contact with water within the drinking water system met all applicable AWWA and ANSI standards in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit?

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

The owner had evidence indicating that chemicals and materials that came in contact with water within the drinking water system met the applicable standards.

Condition 14.1 of Municipal Drinking Water Licence 147-103 Issue Number 2 states that all



chemicals

and materials used in the alteration or operation of the drinking water system that come into contact with water within the system shall meet all applicable standards set by both the American

Water Works Association ("AWWN) and the American National Standards Institute ("ANSI") safety

critical standards NSF/60, NSF/61 and NSF/372.

Chemicals that come into contact with the South Ramara drinking water Include carbon dioxide, and sodium hypochlorite. Documentation was provided indicating that the sodium hypochlorite meets

ANSI/NSF Standard 60, the ground aluminum sulfate meets AWWA B403-09 and the carbon dioxide meets

ANSI/NSF Standard 60.

 Question ID
 DWMR1024001
 Question Type
 Legislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 1-2 | (2);

Question:

Did records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required?

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

Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required.

Section 1-2. (2) 4. of Schedule 1 of Ontario Regulation 170/03

requires that if the drinking water system's water treatment equipment provides chlorination or chloramination for secondary disinfection, the equipment is operated so that, at all times and at all locations within the distribution system, the free chlorine residual is never less than 0.05 mg/L, if the drinking water system provides chlorination and does not provide chloramination.

During the inspection review period there were no free chlorine residual results recorded below 0.05 mg/L. The lowest recorded distribution free chlorine reading during the inspection review period was 0.44 mg/L.

Question ID	DWMR1033001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 170/03 7-2 (3); SDWA O. Reg. 170/03 7-2 (4);				
Question:				

Was secondary disinfectant residual tested as required for the large municipal residential distribution system?

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

Secondary disinfectant residual was tested as required.



There is a continuous chlorine analyser installed in the

South Ramara distribution system at Mara Shores. This analyser is considered an operational analyser, not a regulatory analyser, by the Operating Authority. Operators log on to view the value being recorded by the operational analyser once per day and record the value for the purpose of secondary disinfection monitoring. Operators also routinely check the free chlorine residual at other locations in the distribution system. Records were made of at least one distribution free chlorine residual reading each day of the inspection review period.

Question ID	DWMR1049001	Question Type	BMP		
Legislative Requirement(s): Not Applicable					
Question:	Question:				

Did records confirm that disinfectant residuals were routinely checked at the extremities and dead ends of the distribution system?

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

Records confirmed that disinfectant residuals were routinely checked at the extremities and dead ends of the distribution system.

Question ID	DWMR1036001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 170/03 6-7 (1);				
Question: Where continuous monitoring equipment was not used for chlorine residual analysis, were samples tested using an acceptable portable device?				
Compliance F Samples for cl	Response(s)/Corrective Action(s), nlorine residual analysis were tested	/Observation(s): d using an accepta	ble portable device.	

Question ID	DWMR1030001	Question Type	Legislative
Legislative R SDWA O. Re	e quirement(s): eg. 170/03 7-2 (1); SDWA O. Re	g. 170/03 7-2 (2);
Question: Was primary c Municipal Drin where the inte	lisinfection chlorine monitoring bein king Water Licence and/or Drinking nded CT had just been achieved?	g conducted at a lo Water Works Perr	ocation approved by nit or at/near a location

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

Primary disinfection chlorine monitoring was conducted as required.



		1	
Question ID	DWMR1031001	Question Type	BMP
Legislative R Not Applicable	equirement(s):		
Question: Were operato within the drin	rs aware of the operational criteria r king water system?	necessary to achiev	ve primary disinfection
Compliance Operators we within the drin	Response(s)/Corrective Action(s) re aware of the operational criteria r king water system.	/Observation(s): necessary to achiev	ve primary disinfection
Question ID	DWMR1032001	Question Type	Legislative
Legislative R SDWA O. Re	equirement(s): eg. 170/03 7-3 (2);		
Question: If the drinking filtration, was	water system obtained water from a continuous monitoring of each filter	a surface water sou effluent line perfor	urce and provided med for turbidity?
Compliance Continuous m	Response(s)/Corrective Action(s) onitoring of each filter effluent line v	/Observation(s): vas performed for t	urbidity.

Subsection 7-3 (2) (b) of Schedule 7 of Ontario Regulation 170/03 requires that if a drinking water system obtains

water from a raw water supply that is surface water and the system provides filtration the owner of the system shall

ensure that sampling and testing for turbidity is carried out by continuous monitoring equipment on each filter

effluent line.

There is a continuous turbidity analyser for each of the two filter effluent lines. There is also a continuous analyser

that measures the turbidity of the treated water line to the distribution system.

Question ID	DWMR1035001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)1-4;				
Question: Were operator results within 7	rs examining continuous monitoring 72 hours of the test?	test results and did	d they examine the	



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

Operators were examining continuous monitoring test results as required.

Subsection 6-5. (1) 3. of Schedule 6 of Ontario

Regulation 170/03 requires that test results recorded under paragraph 1 or 2 must be examined, within 72 hours after the tests are conducted by a certified operator, in the case of, a large municipal residential system, such as South Ramara Drinking Water System. During the inspection review period records indicate that trending data was reviewed within 72 hours of the test being conducted. Operators are able to log on remotely to view the continuous analyser data. The Operating Authority has developed a Standard Operating Procedure for how Operators are to complete the review of continuous monitoring data.

Question ID	DWMR1038001	Question Type	Legislative
Legislative R SDWA O. Re	equirement(s): ·g. 170/03 6-5 (1)1-4;		
Question: Was continuou requirements recording data	us monitoring equipment that was b performing tests for the parameters with the prescribed format?	eing utilized to fulfi with at least the m	ll O. Reg. 170/03 inimum frequency and
Compliance F Continuous m requirements and recording	Response(s)/Corrective Action(s), onitoring equipment that was being was performing tests for the parame data with the prescribed format.	Observation(s): utilized to fulfill O. eters with at least th	Reg. 170/03 he minimum frequency
The frequency monitoring at 3 Table in Scher There is also of The Operating Operators are remotely. Daily measured at the disinfection mo	of recording and the setpoints for t South Ramara Drinking Water Syste dule 6 of Ontario Regulation 170/03 continuous chlorine analyser installe Authority does not consider this an able to view the free chlorine residu an Operator will log on and view a nat time and record it on the daily sponitoring. The analyser records value	urbidity and chlorin em exceed the star for primary disinfe ed at Mara Shores alyser to be a regu- uals measured by t and record the free preadsheet for the les every two minu	ne ndards contained in the ection monitoring. in the distribution system. ulatory analyser. he continuous analyser chlorine residual being purpose of secondary tes.

Question ID	DWMR1037001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)5-10; SDWA O. Reg. 170/03 6-5 (1.1);				
Question:				

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

Subsection 6-5 (1) 8 of Schedule 6 of Ontario

Regulation 170/03 states that the continuous monitoring equipment must be checked and calibrated in accordance with the manufacturer's instructions. Subsection 6-5(1)10 states that if the manufacturer's instructions do not indicate how often to check and calibrate the continuous monitoring equipment and paragraph 9 does not apply, the equipment must be checked and calibrated as often as necessary to ensure that test results are within the following margins of error: i. In the case of free chlorine residual, 0.05 milligrams per litre, if the concentrations usually measured by the equipment are less than or equal to 1.0 milligrams per litre, ii. In the case of free chlorine residual and total chlorine residual measured for the purpose of determining combined chlorine residual, 0.05 milligrams per litre, if the concentrations usually measured by the equipment are less than or equal to 1.0 milligrams per litre, and proportionally measured by the equipment residual and total chlorine residual measured for the purpose of determining combined chlorine residual, 0.05 milligrams per litre, and proportionally measured by the equipment are less than or equal to 1.0 milligrams per litre, and proportionally higher if the concentrations usually measured for the purpose of determining combined chlorine residual, 0.05 milligrams per litre, and proportionally higher if the concentrations usually measured by the equipment are less than or equal to 1.0 milligrams per litre, and proportionally higher if the concentrations usually measured are greater than 1.0 milligrams per litre, iii. 0.1 Nephelometric Turbidity Units (NTU), in the case of turbidity.

Annually a third party performs calibrations on the continuous analysers, including the analyser installed in the distribution system. Operators regularly perform maintenance on the analysers including flushing, probe checks and add or change electrolyte as required. Operators make comparisons of the continuous chlorine analysers with handheld units regularly and make adjustments when the difference is more than approximately 0.2 mg/L. The turbidity analysers were regularly verified with dry standards during the inspection review period.

Question ID	DWMR1040001	Question Type	Legislative
Legislative R SDWA O. Re	e quirement(s): eg. 170/03 6-5 (1)1-4; SDWA O.	Reg. 170/03 6-5	(1)5-10;
Question: Were all contin manufacturer's	nuous analysers calibrated, maintai s instructions or the regulation?	ned, and operated,	in accordance with the
- ·· -			

Compliance Response(s)/Corrective Action(s)/Observation(s): All continuous analysers were calibrated, maintained, and operated as required.

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

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

A qualified person responded as required and took appropriate actions.

According to the South

Ramara logbook an Operator responded to alarms during the inspection review period. Responses were in a timely manner and appropriate actions were taken for each event. Data recorded by the continuous analysers confirmed that there were no other instances when an alarm should have been generated during the inspection review period.

Question ID	DWMR1039001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 170/03 1-6 (3);				
Question: If primary disir did the owner continuously re	fection equipment that does not use and operating authority ensure the ecorded the performance of the disi	e chlorination or ch equipment had a re nfection equipmen	Iloramination was used, ecording device that t?	
Compliance F The owner and recording devi	Response(s)/Corrective Action(s), d operating authority ensured that th ce that continuously recorded the p	Observation(s): ne primary disinfect erformance of the o	tion equipment had a disinfection equipment.	

Question ID	DWMR1109001	Question Type	Legislative		
Legislative Requirement(s): SDWA O. Reg. 170/03 1-6 (1); SDWA O. Reg. 170/03 1-6 (2);					
Question: If the system used equipment for primary disinfection other than chlorination or chloramination and the equipment malfunctioned, lost power, or ceased to provide the appropriate level of disinfection, causing an alarm or an automatic shut-off, did a certified operator respond as required and take appropriate actions?					
Compliance I A certified ope	Response(s)/Corrective Action(s), arator responded as required and to	/Observation(s): ok appropriate action	ons.		

Question ID	DWMR1042001	Question Type	Legislative
Legislative Ro SDWA 31 (*	equirement(s): 1);		



Question:

If UV disinfection was used, were duty sensors and reference UV sensors checked and calibrated as per the requirements of Schedule E of the Municipal Drinking Water Licence or at a frequency as otherwise recommended by the UV equipment manufacturer?

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

All UV sensors were checked and calibrated as required.

Question ID DWMR1099001 Question Type Information	Question ID	DWMR1099001	Question Type	Information
---	-------------	-------------	---------------	-------------

Legislative Requirement(s):

Not Applicable

Question:

Do records show that water provided by the drinking water system met the Ontario Drinking Water Quality Standards?

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

Records showed that all water sample results met the Ontario Drinking Water Quality Standards.

Question ID	DWMR1079001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 10-4 (1); SDWA O. Reg. 170/03 10-4 (2); SDWA O. Reg. 170/03 10-4 (3);			
Question:			
Were raw water microbiological sampling requirements prescribed by Schedule 10-4 of O. Reg. 170/03 for large municipal residential systems met?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Raw water microbiological sampling requirements were met.			
Subsection 10-4. of Schedule 10 of Ontario Regulation 170/03 requires that the owner of a drinking			
water system and the operating authority for the system shall ensure that a water sample is taken			
at least once every week from the drinking water system's raw water, before any treatment is applied to the water. The owner of the drinking water system and the operating authority for the			
system shall e A raw water sa inspection revi	nsure that each of the samples is te ample was collected prior to treatme ew period. The samples were teste	ested for Escherich ent being applied d d for the required p	ia coll and total coliforms. uring each week of the parameters.



Question ID DWMR1083001	Question Type	Legislative		
Legislative Requirement(s): SDWA O. Reg. 170/03 10-3;				
Question: Were treated microbiological sampling requirements prescribed by Schedule 10-3 of O. Reg. 170/03 for large municipal residential systems met?				
Compliance Response(s)/Corrective Action(s)/Observation(s): Treated microbiological sampling requirements were met. Subsection 10-3 of Schedule 10 of Ontario Regulation 170/03 requires that the owner of a large municipal residential drinking water system and the operating authority for the system shall ensure that a treated water sample is taken at least once every week and tested for Escherichia coli, total coliforms, and general bacteria population expressed as colony counts on a heterotrophic plate count. A week is defined in section 1 of Ontario Regulation 170/03 as a period of seven days that begins on Sunday and ends on the following Saturday. During the inspection review period a treated water sample was collected each week and				

Question ID DWWR1081001 Question Type Legislative	Question ID DWMR	1081001 Que	stion Type Le	gislative
---	------------------	-------------	---------------	-----------

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 10-2 | (1); SDWA | O. Reg. 170/03 | 10-2 | (2); SDWA | O. Reg. 170/03 | 10-2 | (3);

Question:

Were distribution microbiological sampling requirements prescribed by Schedule 10-2 of O. Reg. 170/03 for large municipal residential systems met?

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

Distribution microbiological sampling requirements were met.

Subsection

10-2. of Schedule 10 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that if the system serves 100,000 people or less, at least eight distribution samples, plus one additional distribution sample for every 1,000 people served by the system, are taken every month, with at least one of the samples taken in each week. The owner of the drinking water system and the operating authority for the system shall ensure that each of the samples taken is tested for Escherichia coli and total coliforms and at least 25 per cent of the samples required to be taken are to be tested for general bacteria population expressed as colony counts on a heterotrophic plate count (HPC).

The population served by the South Ramara Drinking Water System is less than 1000 people. As such, 8 distribution samples are required to be collected each month. During the inspection review period two distribution samples were taken each week and tested for the required parameters, including all samples being tested for HPC.



Question ID	DWMR1096001	Question Type	Legislative

Legislative Requirement(s): SDWA | O. Reg. 170/03 | 6-3 | (1);

Question:

Did records confirm that chlorine residual tests were conducted at the same time and location as microbiological samples?

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

Records confirmed that chlorine residual tests were conducted as required.

Question ID DWMR1084001 Question Type Legislative Legislative Requirement(s): SDWA | O. Reg. 170/03 | 13-2; Question: Were inorganic parameter sampling requirements prescribed by Schedule 13-2 of O. Reg. 170/03 met? Compliance Response(s)/Corrective Action(s)/Observation(s): Inorganic parameter sampling requirements were met. Subsection 13-2 (1) of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a large municipal residential system and the operating authority for the system shall ensure that, at least one water sample is taken every 12 months and tested for every parameter set out in Schedule 23 if the system obtains water from a raw water supply that is surface water such as South Ramara Drinking Water System. During the inspection review period treated water samples were tested for all Schedule 23 parameters on . Prior to that, treated water samples were tested for all Schedule 23 parameters on August 6, 2024

Question ID	DWMR1085001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 13-4 (1); SDWA O. Reg. 170/03 13-4 (2); SDWA O. Reg. 170/03 13-4 (3);			
Question: Were organic parameter sampling requirements prescribed by Schedule 13-4 of O. Reg. 170/03 met?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Organic parameter sampling requirements were met.			

Subsection 13-4 (1) of Schedule 13 of Ontario Regulation



170/03 requires that the owner of a large municipal residential system and the operating authority for the system shall ensure that, at least one water sample is taken every 12 months and tested for every parameter set out in Schedule 24 if the system obtains water from a raw water supply that is surface water such as South Ramara Drinking Water System.

During the inspection review period treated water samples were tested for all Schedule 24 parameters on August 6, 2024. Prior to that, treated water samples were tested for all Schedule 24 parameters on August 14, 2023.

Question ID DWMR1086001 Question Type Legislative				
Legislative Requirement(s): 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):				
Question: Were haloacetic acid sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?	3			
Compliance Response(s)/Corrective Action(s)/Observation(s): Haloacetic acid sampling requirements were met.				
Section 13-6.1 of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's 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 (HAA), and have the samples tested for haloacetic acids. The standard of 0.80 mg/L for HAA as a reportable limit came into effect on January 1, 2020. During the inspection review period a sample was collected from the South Ramara				
distribution system on February 5, May 6, August 6 and November 4 of 2024, as well as February 3 of 2025 and tested for HAA as required. The average for HAA during the inspection review period was 46.95 µg/l				

The Operating Authority monitors the average of HAA for the South Ramara Drinking Water System.

Question ID	DWMR1087001	Question Type	Legislative
Legislative Requirement(s):			
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):			



Question:

Were trihalomethane sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?

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

Trihalomethane sampling requirements were met.

Section 13-6 of

Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of trihalomethanes (THMs). The samples are to be tested for THMs.

During the inspection review period samples were collected and tested for THMs from the South Ramara distribution system on

February 5, May 6, August 6 and November 4 of 2024, as well as February 3 of 2025. As required

Legislative Requirement(s): SDWA O. Reg. 170/03 13-7; Question: Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met? Compliance Response(s)/Corrective Action(s)/Observation(s): Nitrate/nitrite sampling requirements were met. Section 13-7. of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.	Question ID	DWMR1088001	Question Type	Legislative		
Question: Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met? Compliance Response(s)/Corrective Action(s)/Observation(s): Nitrate/nitrite sampling requirements were met. Section 13-7. of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.	Legislative Re SDWA O. Re	Legislative Requirement(s): SDWA O. Reg. 170/03 13-7;				
Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met? Compliance Response(s)/Corrective Action(s)/Observation(s): Nitrate/nitrite sampling requirements were met. Section 13-7. of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.	Question:					
Compliance Response(s)/Corrective Action(s)/Observation(s): Nitrate/nitrite sampling requirements were met. Section 13-7. of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.	Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met?					
Section 13-7. of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.	Compliance Response(s)/Corrective Action(s)/Observation(s): Nitrate/nitrite sampling requirements were met.					
Puring the inspection review period samples tested for nitrate and nitrite were collected as required from the treated water point of entry for South Ramara Drinking Water System in Section 13-7. of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite. During the inspection review period samples tested for nitrate and nitrite were collected as required from the treated water point of entry for South Ramara Drinking Water System on						

required.



Question ID DWMR1089001 Question Type Legislative Legislative Requirement(s): SDWA | O. Reg. 170/03 | 13-8; Question: Were sodium sampling requirements prescribed by Schedule 13-8 of O. Reg. 170/03 met? Compliance Response(s)/Corrective Action(s)/Observation(s): Sodium sampling requirements were met. Section 6-1.1 (7) of Schedule 6 of Ontario Regulation 170/03 states that if this Regulation requires at least one water sample to be taken every 60 months and tested for a parameter, the owner of the drinking water system and the operating authority for the system shall ensure that at least one sample that is taken during a 60-month period and for the purpose of being tested for that parameter is taken not more than 90 days before or after the fifth anniversary of the day a sample was taken for that purpose in the previous 60-month period. The most recent treated water sample tested for sodium was collected on August 12, 2020 from the South Ramara Drinking Water System with a result of 32 mg/L. A resample was collected to be tested for sodium on August 24, 2020 with a result of 33.1 mg/L. Sodium results greater than 20 mg/L are an ongoing occurrence for the South Ramara Drinking Water System.

			1
Question ID	DWMR1090001	Question Type	Legislative
Legislative Re SDWA O. Reg	quirement(s): g. 170/03 13-9;		
Question: Where fluoridation is not practiced, were fluoride sampling requirements prescribed by Schedule 13-9 of O. Reg. 170/03 met?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Fluoride sampling requirements were met.			
Section 13-9 of Schedule 13 of Ontario Regulation 170/03 requires that if a drinking water system does not provide fluoridation, the owner of the system and the operating authority for the system shall ensure that a water sample is taken at least once every 60 months and tested for fluoride. Section 6-1.1 (7) of Schedule 6 of Ontario Regulation 170/03 states that if this Regulation requires at least one water sample to be taken every 60 months and tested for a parameter, the owner of the drinking water system and the operating authority for the system shall ensure that at least one sample that is taken during a 60-month period and for the purpose of being tested for that parameter is taken not more than 90 days before or after the fifth anniversary of the day a sample was taken for that purpose in the previous 60-month period. A treated water sample was collected on August 3, 2022 and tested for fluoride. Prior to			



South Ramara Drinking Water System and tested for fluoride.

Question ID	DWMR1092001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 6-2;			
Question: Were water samples taken at the prescribed location?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Water samples were taken at the prescribed location.			

 Question ID
 DWMR1095001
 Question Type
 Legislative

 Legislative Requirement(s):
 SDWA | O. Reg. 170/03 | 15.1-10; SDWA | O. Reg. 170/03 | 15.1-4 | (1); SDWA | O. Reg.
 170/03 | 15.1-5 | (1); SDWA | O. Reg. 170/03 | 15.1-5 | (10); SDWA | O. Reg. 170/03 | 15.1-5 | (1); SDWA | O. Reg. 170/03 | 15.1-5 | (2); SDWA | O. Reg. 170/03 | 15.1-5 | (3); SDWA | O.

 Reg. 170/03 | 15.1-5 | (4); SDWA | O. Reg. 170/03 | 15.1-5 | (5); SDWA | O. Reg. 170/03 | 15.1-5 | (8);
 SDWA | O. Reg. 170/03 | 15.1-5 | (7); SDWA | O. Reg. 170/03 | 15.1-5 | (8);

 SDWA | O. Reg. 170/03 | 15.1-5 | (9); SDWA | O. Reg. 170/03 | 15.1-7 | (1); SDWA | O. Reg.
 170/03 | 15.1-7 | (2); SDWA | O. Reg. 170/03 | 15.1-7 | (3); SDWA | O. Reg. 170/03 | 15.1-7 | (4); SDWA | O. Reg. 170/03 | 15.1-9 | (1); SDWA | O. Reg. 170/03 | 15.1-9 | (2); SDWA | O.

 Reg. 170/03 | 15.1-9 | (3); SDWA | O. Reg. 170/03 | 15.1-9 | (4); SDWA | O. Reg. 170/03 | 15.1-9 | (3);

15.1-9 | (5); SDWA | O. Reg. 170/03 | 15.1-9 | (6); SDWA | O. Reg. 170/03 | 15.1-9 | (7); SDWA | O. Reg. 170/03 | 15.1-9 | (8); SDWA | O. Reg. 170/03 | 15.1-9 | (9);

Question:

Were lead sampling requirements prescribed by Schedule 15.1 of O. Reg. 170/03 met?

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

Lead sampling requirements were met.

The South Ramara Drinking Water System has met the requirements to be eligible for reduced sampling under section 15.1-5 (10) of Schedule 15.1 of Ontario Regulation 170/03. As such, one distribution sample is required to be sampled in each winter and summer period (December 15 to April 15, and June 15 to October 15), and be tested for total alkalinity and for pH. Lead needs to be tested for in winter and summer in every third 12-month period.

Question ID	DWMR1110001	Question Type	Legislative
Legislative R	equirement(s):		
SDWA O. Reg. 170/03 11 (6);			



Question:

Was the annual report prepared by February 28th of the following year and did it contain the required information?

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

The annual report requirements were met.

Question ID	DWMR1111001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 22-2 (1); SDWA O. Reg. 170/03 22-2 (2); SDWA O. Reg. 170/03 22-2 (3); SDWA O. Reg. 170/03 22-2 (4);			
Question: Did the summary report contain the required information and was it completed and distributed as required?			
Compliance Response(s)/Corrective Action(s)/Observation(s): The summary report requirements were met.			

Question ID	DWMR1113001	Question Type	Legislative	
Legislative Requirement(s):				
SDWA O. Re	SDWA O. Reg. 170/03 10.1 (3);			

Question:

Were changes to the system registration information provided to the ministry within ten (10) days of the change?

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

Changes to the system registration information were provided as required.

Question ID	DWMR1098001	Question Type	Legislative		
Legislative R SDWA O. Re 13 (3);	Legislative Requirement(s): SDWA O. Reg. 170/03 13 (1); SDWA O. Reg. 170/03 13 (2); SDWA O. Reg. 170/03 13 (3);				
Question: Were the required records kept for the periods prescribed by section 13 of O. Reg. 170/03?					
Compliance Response(s)/Corrective Action(s)/Observation(s): The required records were kept for the prescribed periods.					



Question ID	DWMR1043001	Question Type	Legislative			
Legislative R SDWA 31 (Legislative Requirement(s): SDWA 31 (1);					
Question:						
Were the proc in accordance and the Munic	ess wastewater and residual solids/ with the design requirements appro ipal Drinking Water Licence?	'sludges treated, ha	andled, and disposed of hking Water Works Permit			
Compliance F	Response(s)/Corrective Action(s)/	Observation(s):	andled, and disposed of			
as required.						
Schedule A of backwash	Drinking Water Works Permit 147-2	203 Issue Number	3 describes the filter			
waste facility a 25 m3 of	as two below grade connected 1.8 m	n diameter mainter	nance holes which provide			
storage for filte diameter	er backwash wastewater. A sump p	ump transfers supe	ernatant to the 1.2 m			
maintenance h are	nole, where it discharges to Lake Si	mcoe by gravity. A	ccumulated settled solids			
removed from the maintenance holes by a sewage pump truck. After a backwash, a timer Is activated by a float to allow the backwash water to settle for 24 hours prior to discharging to Lake Simcoe. Accumulated solids are removed by a pump truck.						
solids have no	t been required to be removed for a	pproximately five y	years. The South Ramara			
Operations Manual indicates that every three months the volume of accumulated sludge Is to be						
evaluated. When the sludge has accumulated to approximately 100 mm above the bottom of the tank						
arrangements disposal	are to be made to clean out the tan	k and dispose of th	ne sludge at an approved			
site.	•					
		• • • •				

Question ID	DWMR1044001	Question Type	Legislative
Legislative Ro SDWA 31 (1	equirement(s): l);		
Question: Did the proces	s wastewater discharge monitoring	program and discl	narge quality comply with
requirements e	established in the Municipal Drinkin	ig Water Licence?	

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

The process wastewater discharge monitoring program and discharge quality complied with the requirements.



Condition 1.5 of Schedule C of Municipal Drinking Water licence 147-103 Issue Number 2 states in

respect of an effluent discharged into the natural environment from a treatment subsystem or treatment subsystem component listed in column 1 of Table 3:

1.5.1 The annual average concentration of a test parameter Identified in column 2 shall not exceed

the value In column 3 of the same row; and

1.5.2 The maximum concentration of a test parameter identified in column 2 shall not exceed the

value in column 4

of the same row.

Table 3 states that the total suspended solids average annual concentration limit is 25 mg/L for

the South Ramara Water Works.

During the inspection review period the average concentration of total suspended solids was 12 mgl.

One sample had a result below the method detection limit of two. A value of two was used for calculating the average.

Condition 4.2 of Schedule C of Municipal Drinking Water licence 147-103 Issue Number 2 states that

for each treatment subsystem or treatment subsystem component listed in column 2 of Table 7 and in

addition to any other sampling, testing and monitoring that may be required, sampling, testing and

monitoring shall be undertaken for a test parameter listed in column 2 using the sample type identified in column 3 at the sampling frequency listed in column 4 and at the monitoring location

listed in column 5 of the same row.

Table 7 requires monthly manual composite samples from the point of discharge to Lake Simcoe for

total suspended solids, pH and aluminum for the South Ramara Water Works.

During the inspection review period, manual composite samples were collected for the required

parameters each month, from the point of discharge with the exception of no pH sample for the month

of October 2018. The Operations Manual details how the composite samples are to be collected,

including a sample at the discharge commencement, midpoint and immediately before the discharge

ceases. Operators collect the samples after the backwash water has settled for approximately 24

hours. The discharge to the lake is put into a manual setting after a backwash event each month to

allow for sampling to occur.



Question ID	DWMR1046001	Question Type	BMP		
Legislative Requirement(s): Not Applicable					
Question:					
Was there a b connections a	ackflow prevention program, policy nd connections to high hazard facility	and/or bylaw in pla ties?	ce that addressed cross		
Compliance F	Response(s)/Corrective Action(s)	Observation(s):			
There was a b	ackflow prevention program, policy	and/or bylaw in pla	ace.		
The Owner of all service conne	The Owner of the South Ramara Drinking Water System has installed backflow preventers on all service connections within the system. The backflow preventers were installed as part of the				
water metering program. The Corporation of the Township of Ramara has a aoss connection bylaw which					
requires backflow prevention devices for all industrial, commercial, institutional, agricultural and multi residential buildings, or if a condition exists in any building or structure that may be hazardous or detrimental to the potable water supply as determined by the Township, including lawn sprinkler systems for residential connections.					
Question ID	DWMR1053001	Question Type	BMP		
Legislative Requirement(s): Not Applicable					

Question:

Was the owner able to maintain proper pressures in the distribution system and was pressure monitored to alert the operator of conditions of loss of pressure below the value under which the system was designed to operate?

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

The owner was able to maintain proper pressures in the distribution system and pressure was monitored to alert the operator of conditions which may lead to loss of pressure below the value under which the system is designed to operate.

There were no complaints of low water pressure from consumers of the South Ramara Drinking Water

System during the inspection review period. Water pressure is measured in the pumphouse on the

distribution header. The pressure switch is connected to the SCADA system and will alarm for both

high and low pressure conditions.



Question ID	DWMR1047001	Question Type	BMP
Legisletive Deguirement(a):			

Legislative Requirement(s): Not Applicable

Not Applicabl

Question:

Did the owner have a program or maintain a schedule for routine cleanout, inspection and maintenance of reservoirs and elevated storage tanks within the distribution system?

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

The owner had a program or maintained a schedule for routine cleanout, inspection and maintenance of reservoirs and elevated storage tanks within the distribution system.

Question ID	DWMR1048001	Question Type	BMP	
Legislative Requirement(s): Not Applicable				
Question: Had the owner implemented a program for the flushing of watermains as per industry standards?				
Compliance I The owner had	Response(s)/Corrective Action(s), d implemented a program for the flu	/Observation(s): Ishing of watermair	IS.	
Annually, in th	e fall, the South Ramara distributior	n system is flushed	. Notices are delivered to	

Annually, in the fall, the South Ramara distribution system is flushed. Notices are delivered t residents to inform them that flushing will be taking place.

Question ID	DWMR1050001	Question Type	BMP		
Legislative Requirement(s): Not Applicable					
Question: Was there a p	Question: Was there a program in place for inspecting and exercising valves?				
Compliance Response(s)/Corrective Action(s)/Observation(s): There was a program in place for inspecting and exercising valves.					
The South Ra must be operated once rectified. A val	mara Operations Manual indicates t per year to ensure it is in good wor ve log book is maintained to record	hat each distributio king order. Any Ide valve maintenanc	on system main valve entified issues are to be e activities.		

Question ID	DWMR1051000	Question Type	BMP
Legislative R Not Applicable	equirement(s):		



Question:

Is there a program in place for inspecting and operating hydrants?

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

There was a program in place for inspecting and operating hydrants.

The South Ramara Operations Manual contains a procedure for hydrant inspection and operation, and

states that

all hydrants should be flushed once a year, typically during the same time as distribution system

flushing in the fall to prepare for winter. Operating the hydrants, including the isolation valve, is part of the hydrant flushing procedure. A hydrant log book is maintained to record all maintenance activities performed on hydrants.

Question ID	DWMR1052001	Question Type	BMP			
Legislative R Not Applicable	Legislative Requirement(s): Not Applicable					
Question: Was there a b	Question: Was there a bylaw or policy in place limiting access to hydrants?					
Compliance Response(s)/Corrective Action(s)/Observation(s): There was a bylaw or policy in place limiting access to hydrants.						
By-law No. 2007.87 states that temporary connections to any potable water system including via fire						
hydrants must connections fo	have a backflow prevention device	installed or an air	gap, except for			
tire fighting nurneeds. The by low preseribes whe is sutherized to corry out work						

fire fighting purposes. The by- law prescribes who is authorized to carry out work.

Question ID	DWMR1058001	Question Type	Legislative			
Legislative R SDWA O. Re	Legislative Requirement(s): SDWA O. Reg. 128/04 28;					
Question: Did operators manuals?	Question: Did operators and maintenance personnel have ready access to operations and maintenance manuals?					
Compliance Response(s)/Corrective Action(s)/Observation(s): Operators and maintenance personnel had ready access to operations and maintenance manuals.						
Operations manuals are kept in the plant as well as at the Environmental Services Office.						



Question ID	DWMR1059001	Question Type	Legislative		
Legislative Requirement(s): SDWA O. Reg. 128/04 28;					
Question:					
Did the opera descriptions s	tions and maintenance manuals co sufficient for the safe and efficient or	ntain plans, drawing peration of the syste	gs, and process em?		
Compliance The operation descriptions s	Response(s)/Corrective Action(s and maintenance manuals contains sufficient for the safe and efficient or)/Observation(s): ined plans, drawing peration of the syste	s, and process em.		
The South Ramara Water Works Operations and Maintenance Manual was updated with Ontario Clean Water Agency (OCWA) procedures in December 2021 and revised in November of 2022 and the updated Permit and Approval was included in May 2022. The Manual includes an overview of the facility, operation and maintenance programs for the different treatment equipment components, emergency generator and distribution system components. Water quality and flow monitoring maintenance and requirements as well as record and reporting requirements are detailed. The manual includes a CT calculation worksheet. Contingency and Emergency plans are available to deal with potential problems that may					
Question ID	DWMR1060001	Question Type	Legislative		
SDWA 31 ((1);				
Question: 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.					
16.2 of Scheo requires that minimum: 16.2.1 The re	Jule B of Municipal Drinking Water L the operations and maintenance ma quirements of this licence and asso quirements of the drinking water wo	Licence 147-103 lss anual or manuals, s ciated procedures; orks permit for the d	sue Number 4 hall include at a		

16.2.3 A description of the processes used to achieve primary and secondary disinfection within the drinking water system, including where applicable:

a) A copy of the CT calculations that were used as the basis for primary disinfection under worst case operating conditions and other operating conditions, if applicable; and

b) The validated operating conditions for UV disinfection equipment, including a copy of the validation certificate;

16.2.4 Procedures for monitoring and recording the in-process parameters necessary for



the control of any treatment subsystem and for assessing the performance of the drinking water system;

16.2.5 Procedures for the operation and maintenance of monitoring equipment;

16.2.6 Contingency plans and procedures for the provision of adequate equipment and material to deal with emergencies, upset conditions and equipment breakdown;

16.2.7 Procedures for dealing with complaints related to the drinking water system, including the recording of the nature of the complaint and any investigation and corrective action taken in respect of the complaint.

The South Ramara Water Works Operations and Maintenance Manual and Contingency and Emergency Plan meet the requirements of the Municipal Drinking Water Licence.

Question ID	DWMR1064001	Question Type	Legislative		
Legislative Requirement(s): SDWA O. Reg. 128/04 26 (2);					
Question: Did an operator-in-charge ensure that records were maintained of all adjustments to the processes within their responsibility?					
Compliance Response(s)/Corrective Action(s)/Observation(s): The operator-in-charge ensured that records were maintained of all adjustments to the processes within their responsibility.					

Question ID	DW/MP1062001	Question Type				
Question ID		Question Type	Legislative			
Legislative Ro SDWA O. Re	Legislative Requirement(s): SDWA O. Reg. 170/03 7-5;					
Question: 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?						
Compliance Response(s)/Corrective Action(s)/Observation(s):						
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.						

Question ID	DWMR1063001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 170/03 6-10 (1);				
Question: For every required operational test and sample, was a record made of the date, time.				

Event Number: 1-368526411



location, results, and name of the person conducting the test?

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

For every required operational test and sample, a record was made as required.

Question ID DWMR1061001

Question Type Legislative

Legislative Requirement(s):

SDWA | O. Reg. 128/04 | 27 | (1); SDWA | O. Reg. 128/04 | 27 | (2); SDWA | O. Reg. 128/04 | 27 | (3); SDWA | O. Reg. 128/04 | 27 | (4); SDWA | O. Reg. 128/04 | 27 | (5); SDWA | O. Reg. 128/04 | 27 | (6); SDWA | O. Reg. 128/04 | 27 | (7);

Question:

Were logbooks properly maintained and did they contain the required information?

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

Logbooks were properly maintained and contained the required information.

Logbooks are maintained for the South Ramara Drinking Water System . The Log Book kept up to date/saved in the eLogBooks which were implemented on June 21, 2021.

Question ID	DWMR1065001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 128/04 27 (6);				
Question: Were logs and other record keeping mechanisms available for at least five (5) years?				
Compliance Response(s)/Corrective Action(s)/Observation(s): Logs or other record keeping mechanisms were available for at least five (5) years.				

Question ID	DWMR1066001	Question Type	BMP	
Legislative Requirement(s): Not Applicable				
Question: Was spill cont	Question: Was spill containment provided for process chemicals and standby power generator fuel?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Spill containment was provided for process chemicals and/or standby power generator fuel.				
Liquid chemicals are stored on splll containment structures. The carbon dioxide cylinder is kept in				



a locked cage. The generator Is located in a locked area.

Question ID	DWMR1067001	Question Type	BMP		
Legislative Requirement(s): Not Applicable					
Question: Were equipme	Question: Were equipment and materials in place for the clean up of spills?				
Compliance Response(s)/Corrective Action(s)/Observation(s): Equipment and materials were in place for the clean up of spills.					
A splll clean-up kit is located in the South Ramara treatment plant.					

Question ID	DWMR1068001	Question Type	BMP	
Legislative Requirement(s): Not Applicable				
Question: If available, were standby power generators tested under normal load conditions?				
Compliance Response(s)/Corrective Action(s)/Observation(s): Standby power generators were tested under normal load conditions.				
The South Ramara Water Works Operations Manual states that the generator is to be tested under load condition each month. Annually the generator is serviced by a technician.				

Question ID	DWMR1071001	Question Type	BMP	
Legislative Requirement(s): Not Applicable				
Question: Did the owner provide security measures to protect components of the drinking water system?				
Compliance F The owner pro	Response(s)/Corrective Action(s), ovided security measures to protect	Observation(s): components of the	drinking water system.	

The sample stations and pumphouse are locked. The pumphouse is also alarmed for forced entry. The reservoir hatches are located within the pumphouse building. The intake structure is not marked. Operators regularly check all components to ensure they are secure and have not been tampered with.



Question ID	DWMR1072001	Question Type	BMP
-------------	-------------	---------------	-----

Legislative Requirement(s):

Not Applicable

Question:

Had the owner and/or operating authority undertaken efforts to promote water conservation and reduce water losses in the drinking water system?

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

The owner and/or operating authority undertook efforts to promote water conservation and reduce water losses in their system.

There is no water conservation program but the Township does have a water use bylaw, bylaw number 2020.74 which speaks to water use restrictions.

Question ID	DWMR1073001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 128/04 23 (1);				
Question: Was an overall responsible operator designated for all subsystems which comprise the drinking water system?				
Compliance Response(s)/Corrective Action(s)/Observation(s): An overall responsible operator was designated for all subsystem.				
The South Ramara Drinking Water System is comprised of a Water Distribution Class I and Water Treatment Class II subsystem. The Operator In Charge (OIC) is designated for both of the subsystems. The Operator acting as the OIC is				

indicated in the electronic logbook on each day that entries are made.

Question ID	DWMR1078001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 128/04 23 (1); SDWA O. Reg. 128/04 23 (2); SDWA O. Reg. 128/04 23 (4); SDWA O. Reg. 128/04 23 (6); SDWA O. Reg. 128/04 23 (7);				
Question: When the overall responsible operator was unable to act, was a properly certified operator designated to act in their place?				
Compliance Response(s)/Corrective Action(s)/Observation(s): A properly certified operator was designated to act in place of the overall responsible operator.				



Question ID	DWMR1074001	Question Type	Legislative
-------------	-------------	---------------	-------------

Legislative Requirement(s):

SDWA | O. Reg. 128/04 | 25 | (1);

Question:

Were operators-in-charge designated for all subsystems which comprise the drinking water system?

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

Operators-in-charge were designated for all subsystems.

The South Ramara Drinking Water System is comprised of a Water Distribution Subsystem Class I and

Water Treatment Subsystem Ctass II. The Operators In Charge are designated for both of the

subsystems.

Question ID	DWMR1075001	Question Type	Legislative	
Legislative Requirement(s): SDWA O. Reg. 128/04 22;				
Question: Were all operators certified as required?				
Compliance Response(s)/Corrective Action(s)/Observation(s): All operators were certified as required.				

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

DWS Name: DWS Number: DWS Owner: Municipal Location:	SOUTH RAMARA DRINKING WATER SYSTEM 220010681 CORPORATION OF THE TOWNSHIP OF RAMARA
Regulation:	0.REG. 170/03
DWS Category:	DW Municipal Residential
Type of Inspection:	Focused
Compliance Assessment Start Date:	Feb-12-2025
Ministry Office:	Barrie District Office

Maximum Risk Rating: 654

Inspection Module	Non Compliance Risk (X out of Y)
Capacity Assessment	0/42
Certification and Training	0/49
Effluent Quality and Quantity	0/20
Logbooks	0/30
Operations Manuals	0/42
Reporting & Corrective Actions	0/54
Source	0/12
Treatment Processes	0/269
Water Quality Monitoring	0/136
Overall - Calculated	0/654

Inspection Risk Rating: 0.00%

Final Inspection Rating: 100.00%

DWS Name: DWS Number: DWS Owner Name:	SOUTH RAMARA DRINKING WATER SYSTEM 220010681 CORPORATION OF THE TOWNSHIP OF RAMARA
Municipal Location:	RAMARA
Regulation:	O.REG. 170/03
DWS Category:	DW Municipal Residential
Type of Inspection:	Focused
Compliance Assessment Start Date:	Feb-12-2025
Ministry Office:	Barrie District Office

All legislative requirements were met. No detailed rating scores.

Maximum Question Rating: 654

Inspection Risk Rating: 0.00%

FINAL INSPECTION RATING: 100.00%