



**Ministry of the Environment,  
Conservation and Parks**

**Ministère de l'Environnement, de la  
Protection de la nature et des Parcs**

Drinking Water and Environmental  
Compliance Division

Division de la conformité en matière d'eau  
potable et d'environnement

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**August 24, 2021**

**The Corporation of the Town of Aylmer**

46 Talbot St.  
Aylmer, Ontario  
N5H 1J7

Attention: **Connor Bailey**, Manager of Water Operations  
Regarding: **Aylmer Distribution System (WW# 260002136)** Final Inspection Report  
Inspection conducted on June 18, 2021

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The enclosed Drinking Water Inspection Report outlines non-compliances, if any, with Ministry legislation, and policies for the above noted water system. Violations noted in this report, if any, have been evaluated based on community risk. These violations will be monitored for compliance with the minimum standards for drinking water in Ontario as set forth under the *Safe Drinking Water Act* and the associated regulations. Where risk is deemed to be high and/or compliance is an ongoing concern, violations will be forwarded to this Ministry's Investigation and Enforcement Branch.

In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation and Enforcement (II&E) Secretariat and advice of internal/external risk experts. The Inspection summary Rating Record (IRR) provides the Ministry, the system owner, and the local Public Health Units with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance.

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 council*" found under "Drinking Water" on the Drinking Water Ontario website at [www.ontario.ca/page/taking-care-your-drinking-water-guide-members-municipal-councils](http://www.ontario.ca/page/taking-care-your-drinking-water-guide-members-municipal-councils).

Attached to the report is the IRR methodology guidance describing how the risk rating model has improved to better reflect the health related and administrative non-compliance found in an inspection report. IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspector's

Annual Report. **Please note that due to a change in IT systems, the Inspection Rating Report (IRR) cannot be generated at the same time as the inspection report. The IRR will be sent separately and prior to any public release (typically within 1-2 month of the completion of the inspection).**

Should you have any questions regarding the report, please feel free to contact me at (519) 317-8084.

Sincerely,

A handwritten signature in black ink, appearing to read "A. Stroyberg".

Angela Stroyberg  
*Provincial Officer*  
Water Inspector  
London District Office  
Angela.Stroyberg@Ontario.ca

cc. Southwestern Public Health Unit  
Kettle Creek Conservation Authority  
London District File



AYLMER DISTRIBUTION SYSTEM  
46 TALBOT ST W, AYLMER, ON, N5H 1J7

## Inspection Report

System Number: 260002136  
Inspection Start Date: 06/16/2021  
Inspection End Date: 08/24/2021  
Inspected By: Angela Stroyberg  
Badge #: 1695

A handwritten signature in black ink, appearing to read "A. Stroyberg".

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(signature)

**NON-COMPLIANCE/NON-CONFORMANCE ITEMS**

The following item(s) have been identified as non-compliance/non-conformance, based on a "No" response captured for a legislative or best management practice (BMP) question (s), respectively.

**Question Group:** Other Inspection Findings

<b>Question ID</b>	MRDW1116000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Were the inspection questions sufficient to address other identified best practice issues?	BMP	Not Applicable
<b>Observation/Corrective Action(s)</b>		
<p>The following issues were also noted during the inspection:</p> <p>It was observed during the inspection that operators diligently documented the proper information for planned/new watermain disinfection procedures in the facility logbook and some information was provided on a form, however it was difficult to assess compliance with the associated standards as information was found to be somewhat convoluted.</p> <p>It is highly recommended that Operating Authority develop a single form for each activity (watermain break form, new watermain form etc.) that clearly indicates the methodologies that were utilized, dates, times of activities, chlorine residuals, microbiological samples collected, and any other such steps required to ensure compliance with the legislation.</p>		

## INSPECTION DETAILS

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

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

<b>Question ID</b>	MRDW1001000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
What was the scope of this inspection?	Information	Not Applicable
<b>Observation</b>		
<p>The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks (MECP) legislation as well as evaluating conformance with ministry drinking water policies and guidelines during the inspection period. 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 practices.</p> <p>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.</p> <p>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.</p> <p>An inspection of the Aylmer Distribution System was conducted on June 18, 2021 by Provincial Officer Angela Stroyberg. As part of the inspection, several documents were reviewed in association with this report. Generally, these include but are not restricted to the following:</p> <ol style="list-style-type: none"> <li>1) Drinking Water Works Permit # 044-201- Issue Number 2, dated June 7, 2016.</li> <li>2) Municipal Drinking Water Licence # 044-101- Issue Number 2, June 7, 2016.</li> <li>3) Municipal Drinking Water Licence # 044-101 - Issue Number 3, dated May 10, 2021 (extension).</li> <li>4) Aylmer Distribution Water System Operations and Maintenance Manual dated February 2019.</li> <li>5) Online Continuous Monitoring Data for the inspection review period.</li> <li>6) Other operational documents maintained by the Owner/Operating Authority for the inspection period.</li> </ol> <p>This report also includes a review and assessment of compliance and operating practices in relation to the following Acts and Regulations:</p> <ol style="list-style-type: none"> <li>1) Safe Drinking Water Act 2002;</li> <li>2) Drinking Water Systems Regulation (Ontario Regulation 170/03);</li> <li>3) Ontario Drinking Water Quality Standards (Ontario Regulation 169/03);</li> <li>4) Ontario Water Resources Act 1990;</li> </ol>		

5) Certification of Drinking Water System Operator and Water Quality Analysts (Ontario Regulation 128/04).

It should be noted that the inspection review period covers the period from May 1, 2020 to May 31, 2021.

<b>Question ID</b>	MRDW1000000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Does this drinking water system provide primary disinfection?	Information	Not Applicable
<b>Observation</b>		
This Drinking Water System provides for only secondary disinfection and distribution of water. Primary disinfection is undertaken by another regulated Drinking Water System which provides treated water to this Drinking Water System.		

<b>Question ID</b>	MRDW1033000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is the secondary disinfectant residual measured as required for the large municipal residential distribution system?	Legislative	SDWA   O. Reg. 170/03   7-2   (3), SDWA   O. Reg. 170/03   7-2   (4)
<b>Observation</b>		
The secondary disinfectant residual was measured as required for the distribution system.		
At the time of the inspection, an online free chlorine analyzer was observed at the Aylmer Standpipe to monitor the free chlorine in the distribution system. In addition to the above, manual samples are also collected and tested for free chlorine with the collection of weekly microbiological samples. Based on the aforementioned, the Owner/Operating Authority has complied with the legislative requirement.		

<b>Question ID</b>	MRDW1037000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are all continuous monitoring equipment utilized for sampling and testing required by O. Reg.170/03, or MDWL or DWWP or order, equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6?	Legislative	SDWA   O. Reg. 170/03   6-5   (1) 1-4,SDWA   O. Reg. 170/03   6-5   (1)5-10,SDWA   O. Reg. 170/03   6-5   (1.1)
<b>Observation</b>		

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, were equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6.

All alarms associated with the drinking water system are transmitted from the PLC to an auto dialer or SCADA system to notify an on-call operator should a parameter output reading fluctuate above or below the alarm set points. Minor adjustments to the alarm set points may occur based on operating conditions at the operator's discretion.

<b>Question ID</b>	MRDW1038000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is continuous monitoring equipment that is being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format?	Legislative	SDWA   O. Reg. 170/03   6-5   (1) 1-4
<b>Observation</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 specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format.		

<b>Question ID</b>	MRDW1035000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are operators examining continuous monitoring test results and are they examining the results within 72 hours of the test?	Legislative	SDWA   O. Reg. 170/03   6-5   (1) 1-4,SDWA   O. Reg. 170/03   6-5   (1)5-10
<b>Observation</b>		
Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.		
Ontario Regulation 170/03 Schedule 6-5(1) states that if a drinking water system uses continuous monitoring equipment for sampling and testing that is required under this Regulation, or under an approval, municipal drinking water licence, drinking water works permit, or order, for a parameter set out in the Table to this section the owner of the system and the operating authority for the system shall ensure that the following standards are met:		
1. The continuous monitoring equipment must, except when no water is being directed to users of water sampled by the equipment		
i. Test for the parameter with at least minimum frequency specified in the Table for the parameter, and		

ii. Record the date, time, sampling location and results of every test for the parameter with at least the minimum frequency referred to in subparagraph i.

2. If the continuous monitoring of the equipment tests for a parameter more often than required by subparagraph 1i, the equipment may, instead of complying with subparagraph 1ii,

iii. Record the minimum, maximum and mean results of tests for the parameter for every period that is equal to the length of time referred to in subparagraph 1i, along with the sampling location, date of the tests conducted during the period and the time of at the end of the period, and iv. Record the result of every test that causes an alarm to signal under paragraph 1 of subsection (1.1), along with the sampling location and the date and time of the test.

3. Test results recorded under paragraph 1 or 2 must be examined, within 72 hours of the tests are conducted by a

(i) Certified operator in the case of a Large Municipal Residential System.

According to documentation submitted for the inspection review period indicated that Operators ensured that the aforementioned requirements were complied with.

<b>Question ID</b>	MRDW1040000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?	Legislative	SDWA   O. Reg. 170/03   6-5   (1) 1-4,SDWA   O. Reg. 170/03   6-5   (1)5-10
<b>Observation</b>		
All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation.		
The current minimum regulatory requirements under O. Reg 170/03 Schedule 6-5 stipulate that continuous monitoring equipment calibrations are to be conducted as often as necessary to ensure that test results are within the appropriate margin of error. Documents submitted for review indicated that a contractor performs calibrations on the chlorine analyzer and all handhelds on a regular basis. According to documentation, the last calibration occurred on May 13, 2021.		
In addition to regular calibrations, the operating authority frequently performs verification checks on the equipment and adjusts them accordingly to ensure accuracy.		

<b>Question ID</b>	MRDW1108000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>



Where continuous monitoring equipment used for the monitoring of free chlorine residual, total chlorine residual, combined chlorine residual or turbidity, required by Regulation 170, an Order, MDWL, or DWWP issued under Part V, SDWA, has triggered an alarm or an automatic shut-off, did a qualified person respond in a timely manner and take appropriate actions?	Legislative	SDWA   O. Reg. 170/03   6-5   (1) 1-4,SDWA   O. Reg. 170/03   6-5   (1)5-10,SDWA   O. Reg. 170/03   6-5   (1.1)
<b>Observation</b>		
Where required continuous monitoring equipment used for the monitoring of chlorine residual and/or turbidity triggered an alarm or an automatic shut-off, a qualified person responded in a timely manner and took appropriate actions.		
A review of the documentation submitted for the inspection review period indicated that when an alarm was triggered a qualified person responded in a timely manner.		

<b>Question ID</b>	MRDW1018000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Has the owner ensured that all equipment is installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?	Legislative	SDWA   31   (1)
<b>Observation</b>		
The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.		
Observations made at the time of the inspection indicated that the equipment and components that are described under Schedule A and Schedule C of the Drinking Water Works Permit # 044-201 - Issue #2 were installed for the Aylmer Distribution System.		

<b>Question ID</b>	MRDW1020000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is the owner/operating authority able to demonstrate that, when required during the inspection period, Form 1 documents were prepared in accordance with their Drinking Water Works Permit?	Legislative	SDWA   31   (1)
<b>Observation</b>		
The owner/operating authority was in compliance with the requirement to prepare Form 1 documents as required by their Drinking Water Works Permit during the inspection period.		
The Owner/Operating Authority provided one (1) Form 1 document pertaining to the reconstruction of a watermain and all associated appurtenances along Clarence Street.		

<b>Question ID</b>	MRDW1021000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is the owner/operating authority able to demonstrate that, when required during the inspection period, Form 2 documents were prepared in accordance with their Drinking Water Works Permit?	Legislative	SDWA   31   (1)
<b>Observation</b>		
<p>The owner/operating authority was in compliance with the requirement to prepare Form 2 documents as required by their Drinking Water Works Permit during the inspection period.</p> <p>The Owner/Operating Authority provided one (1) Form 2 document pertaining to the replacement of the online chlorine analyzer located the Aylmer Standpipe.</p>		

<b>Question ID</b>	MRDW1025000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Were all parts of the drinking water system that came in contact with drinking water (added, modified, replaced or extended) disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?	Legislative	SDWA   31   (1)
<b>Observation</b>		
<p>All parts of the drinking water system were disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit.</p> <p>Drinking Water Works Permit #044-201 Issue #2 Section 2.3 of Schedule B states that all parts of the drinking water system in contact with drinking water which are added, modified, replaced, extended, or taken out of service inspection, repair or other activities that may lead to contamination shall be disinfected before being put into service in accordance with a procedure approved by the director or in accordance with the application provisions of the following documents:</p> <ul style="list-style-type: none"> <li>a) The Ministry's Watermain Disinfection Procedure, effective February 2, 2017;</li> <li>b) AWWA C652 – Standard for Disinfection of Water-Storage Facilities;</li> <li>c) AWWA C653 – Standard for Disinfection of Water Treatment Plants; and</li> <li>d) AWWA C654 – Standard for Disinfection of Wells.</li> </ul> <p>According to documentation submitted, the Owner/Operating Authority ensured that all approved disinfection procedures were correctly and accurately followed and documented following any activities that may have led to contamination.</p>		

<b>Question ID</b>	MRDW1062000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>

Do records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment is being done by a certified operator, water quality analyst, or person who meets the requirements of O. Reg. 170/03 7-5?	Legislative	SDWA   O. Reg. 170/03   7-5
<b>Observation</b>		
Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was being done by a certified operator, water quality analyst, or person who suffices the requirements of O. Reg. 170/03 7-5.		

<b>Question ID</b>	MRDW1060000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do the operations and maintenance manuals meet the requirements of the DWWP and MDWL issued under Part V of the SDWA?	Legislative	SDWA   31   (1)
<b>Observation</b>		
The operations and maintenance manuals met the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.		
Municipal Drinking Water Licence #044-101 – Issue # 2, Section 16 of Schedule B outline the requirements for the Operations and Maintenance Manuals. The Aylmer Distribution System's Operations and Maintenance Manual contain the aforementioned requirements as stated in the MDWL including but not limited to; contingency plans, procedures to deal with emergencies, procedures for dealing with complaints associated with the drinking water system and copies of the current permit and licence.		

<b>Question ID</b>	MRDW1071000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Has the owner provided security measures to protect components of the drinking water system?	BMP	Not Applicable
<b>Observation</b>		
The owner had provided security measures to protect components of the drinking water system.		
The Aylmer Standpipe remains locked at all times and is enclosed by security fencing with a lockable gate. In addition to the aforementioned the facility is visited regularly by staff.		

<b>Question ID</b>	MRDW1073000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Has the overall responsible operator been designated for all subsystems which comprise the drinking water system?	Legislative	SDWA   O. Reg. 128/04   23   (1)
<b>Observation</b>		

The overall responsible operator has been designated for each subsystem.

Ontario Regulation 128/04 S.23(1) states that the owner or operating authority of a municipal residential subsystem shall designate as overall responsible operator of the subsystem an operator who holds a certificate for that type of subsystem and that is of the same class as or higher than the class of that subsystem. (For example, the overall responsible operator of a Class III water treatment subsystem must be an operator who holds a Class III or Class IV water treatment subsystem operator's certificate.)

The Owner/Operating Authority currently employ several operators qualified to act as the Overall Responsible Operator for the drinking water system to ensure sufficient coverage in the event of an absence.

<b>Question ID</b>	MRDW1074000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Have operators in charge been designated for all subsystems for which comprise the drinking water system?	Legislative	SDWA   O. Reg. 128/04   25   (1)
<b>Observation</b>		
Operators-in-charge had been designated for all subsystems which comprised the drinking water system.		
Ontario Regulation 128/04 S. 25(1) states that the Owner or Operating Authority of a subsystem or a person authorized by the Owner or Operating Authority shall designate one or more operators as operators-in-charge of the subsystem. The Owner/Operating Authority currently employ a number of operators who are designated as Operator-In-Charge for the system.		

<b>Question ID</b>	MRDW1075000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do all operators possess the required certification?	Legislative	SDWA   O. Reg. 128/04   22
<b>Observation</b>		
All operators possessed the required certification.		
Ontario Regulation 128/03 s. 22 states that the Owner or Operating Authority of a subsystem shall ensure that every operator employed in the subsystem holds, (a) a certificate applicable to that type of subsystem; or (b) a certificate applicable to that subsystem, in the case of an operator who holds a conditional certificate issued or renewed under section 10. All operators employed by the Owner/Operating Authority possess all the appropriate certification required to operate the drinking water system.		

<b>Question ID</b>	MRDW1076000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do only certified operators make adjustments to the treatment equipment?	Legislative	SDWA   O. Reg. 170/03   1-2   (2)
<b>Observation</b>		
<p>Only certified operators made adjustments to the treatment equipment.</p> <p>Ontario regulation 170/03, Schedule 1-2(2)5 states that any adjustments to the water treatment equipment are to be carried out only by certified operators. A review of the logbooks indicated that only certified operators made adjustments to the treatment equipment.</p>		

<b>Question ID</b>	MRDW1099000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do records show that all water sample results taken during the inspection review period did not exceed the values of tables 1, 2 and 3 of the Ontario Drinking Water Quality Standards (O. Reg.. 169/03)?	Information	Not Applicable
<b>Observation</b>		
<p>Records showed that all water sample results taken during the inspection review period did not exceed the values of tables 1, 2 and 3 of the Ontario Drinking Water Quality Standards (O.Reg. 169/03).</p>		

<b>Question ID</b>	MRDW1096000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do records confirm that chlorine residual tests are being conducted at the same time and at the same location that microbiological samples are obtained?	Legislative	SDWA   O. Reg. 170/03   6-3   (1)
<b>Observation</b>		
<p>Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.</p> <p>Ontario Regulation 170/03 Schedule 6-3(1) stipulates that if the regulation or an approval, municipal drinking water licence or order, including an OWRA order, requires a water sample to be taken and tested for a microbiological parameter, the owner of the drinking water system and the operating authority for the system shall ensure that another sample is taken at the same time from the same location and is tested immediately for, (a) free chlorine residual, if the system provides chlorination and does not provide chloramination. A review of documentation indicated that free chlorine residuals were collected at the same time and at the same location that microbiological samples were obtained.</p>		

<b>Question ID</b>	MRDW1081000	
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Question	Question Type	Legislative Requirement
Are all microbiological water quality monitoring requirements for distribution samples being met?	Legislative	SDWA   O. Reg. 170/03   10-2   (1),SDWA   O. Reg. 170/03   10-2   (2),SDWA   O. Reg. 170/03   10-2   (3)
<b>Observation</b>		
<p>All microbiological water quality monitoring requirements for distribution samples were being met.</p> <p>Ontario Regulation 170/03, Schedule 10-2 stipulates that distribution water samples are required to be collected and tested for E.coli, Total Coliforms and that at least 25 percent of the samples are tested for general bacterial population expressed as colony counts on a heterotrophic plate count with the prescribed frequency stipulated in Schedule 6-1.1(1) of O.Reg 170/03.</p> <p>Over the course of the inspection period, the Owner/Operating Authority collected weekly distribution microbiological samples. The Owner/Operating Authority is also required to collect a minimum of 15 samples per month based on the population served. A review of documentation indicated that between 16-20 samples were collected per month. Based on the aforementioned, the Owner/Operating Authority is in compliance with the legislative requirement.</p>		

Question ID	MRDW1086000	
Question	Question Type	Legislative Requirement
Are all haloacetic acid water quality monitoring requirements prescribed by legislation conducted within the required frequency and at the required location?	Legislative	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)
<b>Observation</b>		
<p>All haloacetic acid water quality monitoring requirements prescribed by legislation are being conducted within the required frequency and at the required location.</p> <p>Haloacetic Acid samples are required to be collected and tested each calendar quarter from the</p>		

distribution system in accordance with Schedule 13-6.1 of O. Reg 170/03 with the frequency stipulated in Schedule 6-1.1(4). According to documentation the following samples were taken:

Aylmer Distribution System

- 1) April 06, 2021 = 16.1 ug/L
- 2) January 04, 2021 = 6.0 ug/L
- 3) October 13, 2020 = 21.5 ug/L
- 4) July 06, 2020 = 7.7ug/L

Based on the aforementioned the Owner/Operating Authority is in compliance with the requirements for collecting Haloacetic Acid samples as per Schedule 13-6.1 of O. Reg 170/03.

<b>Question ID</b>	MRDW1087000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Have all trihalomethane water quality monitoring requirements prescribed by legislation been conducted within the required frequency and at the required location?	Legislative	SDWA   O. Reg. 170/03   13-6   (1)
<b>Observation</b>		
All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.		
Trihalomethane samples are required to be collected and tested every calendar quarter from the distribution system in accordance with O. Reg 170/03, Schedule 13-6 with the prescribed frequency stipulated in Schedule 6-1.1(4). According to documentation, the following samples were collected:		
Aylmer Distribution System		
<ol style="list-style-type: none"> <li>1) April 06, 2021 = 21 ug/L</li> <li>2) January 04, 2021 = 17 ug/L</li> <li>3) October 13, 2020 = 33 ug/L</li> <li>4) July 06, 2020 = 25 ug/L</li> </ol>		
Based on the aforementioned, the Owner/Operating Authority is in compliance with the requirements for collecting trihalomethane samples as per Schedule 13-6 of O. Reg 170/03.		

<b>Question ID</b>	MRDW1100000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Did any reportable adverse/exceedance conditions occur during the inspection period?	Information	Not Applicable
<b>Observation</b>		
There were no reportable adverse/exceedances during the inspection period.		



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<b>Question ID</b>	MRDW1113000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Have all changes to the system registration information been provided to the Ministry within ten (10) days of the change?	Legislative	SDWA   O. Reg. 170/03   10.1   (3)
<b>Observation</b>		
All changes to the system registration information were provided within ten (10) days of the change.		

<b>Question ID</b>	MRDW1116000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Were the inspection questions sufficient to address other identified best practice issues?	BMP	Not Applicable
<b>Observation</b>		
<p>The following issues were also noted during the inspection:</p> <p>It was observed during the inspection that operators diligently documented the proper information for planned/new watermain disinfection procedures in the facility logbook and some information was provided on a form, however it was difficult to assess compliance with the associated standards as information was found to be somewhat convoluted.</p> <p>It is highly recommended that Operating Authority develop a single form for each activity (watermain break form, new watermain form etc.) that clearly indicates the methodologies that were utilized, dates, times of activities, chlorine residuals, microbiological samples collected, and any other such steps required to ensure compliance with the legislation.</p>		

<b>Question ID</b>	MRDW1059000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do the operations and maintenance manuals contain plans, drawings and process descriptions sufficient for the safe and efficient operation of the system?	Legislative	SDWA   O. Reg. 128/04   28
<b>Observation</b>		
<p>The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.</p> <p>The current regulatory requirements under O. Reg 128/04 s.28 stipulates that the Owner/Operating Authority of a subsystem shall ensure that operators and maintenance personnel in the subsystem have ready access to the comprehensive operations and maintenance manuals that contain plans, drawings, and process descriptions sufficient for the safe efficient operation of the subsystem. A review of Aylmer Distribution System's Operations and Maintenance Manual dated February 2019 indicated that the manual did contain the aforementioned requirements.</p>		



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Question ID	MRDW1061000		
Question	Question Type	Legislative Requirement	
<p>Are logbooks properly maintained and contain the required information?</p>	Legislative	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)	
Observation			
<p>Logbooks were properly maintained and contained the required information.</p> <p>Ontario Regulation 128/04 s. 27, stipulate the requirements for record keeping for the operations of a subsystem. The Operating Authority maintains two (2) logbooks, one is located at the Aylmer Standpipe and one at the Works yard to document scheduled operational checks, manual free chlorine residuals and any other operational or maintenance activities that may have occurred within the distribution system.</p>			

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## Stakeholder Appendix

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# Key Reference and Guidance Material for Municipal Residential Drinking Water Systems

Many useful materials are available to help you operate your drinking water system. Below is a list of key materials owners and operators of municipal residential drinking water systems frequently use.

To access these materials online click on their titles in the table below or use your web browser to search for their titles. Contact the Ministry if you need assistance or have questions at 1-866-793-2588 or [waterforms@ontario.ca](mailto:waterforms@ontario.ca).

For more information on Ontario's drinking water visit [www.ontario.ca/drinkingwater](http://www.ontario.ca/drinkingwater)



PUBLICATION TITLE	PUBLICATION NUMBER
<b>FORMS:</b> Drinking Water System Profile Information Laboratory Services Notification Adverse Test Result Notification	012-2149E 012-2148E 012-4444E
Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils	Website
Procedure for Disinfection of Drinking Water in Ontario	Website
Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids	Website
Filtration Processes Technical Bulletin	Website
Ultraviolet Disinfection Technical Bulletin	Website
Guide for Applying for Drinking Water Works Permit Amendments, & License Amendments	Website
Certification Guide for Operators and Water Quality Analysts	Website
Guide to Drinking Water Operator Training Requirements	9802E
Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption	Website
Drinking Water System Contact List	7128E01
Ontario's Drinking Water Quality Management Standard - Pocket Guide	Website
Watermain Disinfection Procedure	Website
List of Licensed Laboratories	Website

# Principaux guides et documents de référence sur les réseaux résidentiels municipaux d'eau potable

De nombreux documents utiles peuvent vous aider à exploiter votre réseau d'eau potable. Vous trouverez ci-après une liste de documents que les propriétaires et exploitants de réseaux résidentiels municipaux d'eau potable utilisent fréquemment. Pour accéder à ces documents en ligne, cliquez sur leur titre dans le tableau ci-dessous ou faites une recherche à l'aide de votre navigateur Web. Communiquez avec le ministère au 1-866-793-2588, ou encore à [waterforms@ontario.ca](mailto:waterforms@ontario.ca) si vous avez des questions ou besoin d'aide.



Pour plus de renseignements sur l'eau potable en Ontario, consultez le site [www.ontario.ca/eaupotable](http://www.ontario.ca/eaupotable)

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Renseignements sur le profil du réseau d'eau potable	012-2149F
Avis de demande de services de laboratoire	012-2148F
Avis de résultats d'analyse insatisfaisants et de règlement des problèmes	012-4444F
Prendre soin de votre eau potable - Un guide destiné aux membres des conseils municipaux	Site Web
Marche à suivre pour désinfecter l'eau potable en Ontario	Site Web
Stratégies pour minimiser les trihalométhanes et les acides haloacétiques de sous-produits de désinfection	Site Web
Filtration Processes Technical Bulletin (en anglais seulement)	Site Web
Ultraviolet Disinfection Technical Bulletin (en anglais seulement)	Site Web
Guide de présentation d'une demande de modification du permis d'aménagement de station de production d'eau potable	Site Web
Guide sur l'accréditation des exploitants de réseaux d'eau potable et des analystes de la qualité de l'eau de réseaux d'eau potable	Site Web
Guide sur les exigences relatives à la formation des exploitants de réseaux d'eau potable	9802F
Échantillonnage et analyse du plomb dans les collectivités : échantillonnage normalisé ou réduit et admissibilité à l'exemption	Site Web
Liste des personnes-ressources du réseau d'eau potable	Site Web
L'eau potable en Ontario - Norme de gestion de la qualité - Guide de poche	Site Web
Procédure de désinfection des conduites principales	Site Web
Laboratoires autorisés	Site Web

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## Drinking Water System Components

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# DWS Component Information Report for 260002136

as of 09-AUG-2021

## Drinking Water System Profile Information

**DWS #** 260002136  
**MOE Assigned Name** Aylmer Distribution System  
**Category** LMRS  
**Regulation** O.REG 170/03  
**DWS Type** Distribution System  
**Source Type** Distribution  
**Address** Aylmer  
**Region** Southwestern Region  
**District** London District  
**Municipality** Aylmer  
**Public Health Unit** Elgin-St. Thomas Health Unit

LWIS Component Name	LWIS Component Type	LWIS Component Sub-Type	Component Address	Comments
Distribution System	Other	Other		<p>Treated water is supplied to the Town of Aylmer from the Elgin Area Primary Water Supply System, the Elgin Middlesex Pumping Station, and the Aylmer Secondary System. When required, two pumps, located at the Elgin Middlesex Pumping Station in St. Thomas, pump water to Aylmer through a 450 mm dia. secondary transmission main (the Aylmer Secondary System). The main leaves the Pumping Station and proceeds along the north side of Hwy #3, through the Municipality of Central Elgin and Malahide Township until it connects to the Aylmer Distribution System at Bodkin Ave. Depending on system pressure and demand, the Secondary System may be used to directly feed the distribution system or may be used to fill a 4,300 m3 standpipe located at 23 Myrtle Street. There is a continuous chlorine monitor, a tower level indicator and pressure sensor located at the standpipe.</p> <p>The Aylmer Distribution System consists of approximately 42 kilometers of water main of varying sizes (50 mm to 450mm) and types (cast iron, ductile iron, DR-18 plastic, transite). There are approximately 2,860 service connections in the Town of Aylmer, nine meter chambers, 200 fire hydrants and approximately 347 street valves within the system.</p>
Standpipe Reservoir	Other	Reservoir	17 Myrtle Street,	<p>The standpipe located at 23 Myrtle Street, was constructed in 1986 and is 11 metres in diameter and 46 metres in height with a capacity of 4,300 cubic metres. There is a continuous chlorine analyzer, tower level indicator and pressure sensor on the intake/discharge line. The analyzers are connected to the Supervisory Control and Data Acquisition (SCADA) System. SCADA is monitored by the system owner and remotely by the Elgin Area Primary Water System.</p>

Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2021-2022)

**DWS Name:** AYLNER DISTRIBUTION SYSTEM  
**DWS Number:** 260002136  
**DWS Owner:** CORPORATION OF THE TOWN OF AYLNER  
**Municipal Location:** AYLNER

**Regulation:** O.REG. 170/03  
**DWS Category:** DW Municipal Residential  
**Type of Inspection:** Focused  
**Inspection Date:** Jun-16-2021  
**Ministry Office:** London District Office

**Maximum Risk Rating:** 298

Inspection Module	Non Compliance Rating
Treatment Processes	0 / 134
Operations Manuals	0 / 28
Logbooks	0 / 18
Certification and Training	0 / 42
Water Quality Monitoring	0 / 51
Reporting & Corrective Actions	0 / 25
<b>Overall - Calculated</b>	<b>0 / 298</b>

**Inspection Risk Rating:** 0.00%

**Final Inspection Rating:** 100.00%

Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2021-2022)

**DWS Name:** AYLNER DISTRIBUTION SYSTEM  
**DWS Number:** 260002136  
**DWS Owner Name:** CORPORATION OF THE TOWN OF AYLNER  
**Municipal Location:** AYLNER

**Regulation:** O.REG. 170/03  
**DWS Category:** DW Municipal Residential  
**Type of Inspection:** Focused  
**Inspection Date:** Jun-16-2021  
**Ministry Office:** London District Office

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

Maximum Question Rating: 298

Inspection Risk Rating: 0.00%

FINAL INSPECTION RATING: 100.00%