

Ministry of the Environment,  
Conservation & Parks

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

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October 14, 2021

Sent by Email: [lara.widdifield@southbrucepeninsula.com](mailto:lara.widdifield@southbrucepeninsula.com)

Town of South Bruce Peninsula  
315 George Street,  
PO Box 310,  
Warton, Ontario,  
N0H 2T0

Attention: Lara Widdifield,  
Director of Public Works

Dear Ms. Widdifield,

**Re: 2021/2022 Inspection Report No. 1-63729093 Foreman Drinking Water System**

Municipal Drinking Water Licence No. 094-104, Issue No. 4

Drinking Water Works Permit No. 094-204, Issue No. 4

The enclosed report documents findings of the inspection that was performed on September 22, 2021. Two sections of the report, namely "Actions Required" and "Recommended Actions", specify due dates for the submission of information or plans to my attention. Please note that "Actions Required" are linked to incidents of non-compliance with regulatory requirements contained within an Act, a Regulation, or site-specific approvals, orders or instructions; "Recommended Actions" convey information that the owner or operating authority should consider implementing in order to conform with existing and emerging industry standards.

The report includes an Inspection Summary Rating Record as an appendix. This record forms part of the ministry's comprehensive, risk-based inspection process. The rating provides a quantitative measure of the inspection results for this specific drinking water system for the reporting year. An inspection rating that is less than 100 per cent does not mean that the drinking water from the system is unsafe. The primary goals of this assessment are to encourage ongoing improvement of drinking water systems and to measure this progress from year to year.

2.

I would like to remind you that Section 19 of the Safe Drinking Water Act, 2002 (Standard of Care) creates a number of obligations for individuals who exercise decision-making authority over municipal drinking water systems, including members of municipal councils. "Taking Care of Your Drinking Water: A guide for members of municipal council", a publication found on the Drinking Water Ontario website (<https://www.ontario.ca/page/taking-care-your-drinking-waterguidemembers-municipal-councils>), provides further information about these obligations.

Should you have any questions regarding the content of the enclosed report, please do not hesitate to contact me.

Yours Truly,



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Enclosure

ec: Carl Seider, Project Manager, Source Water Protection Program  
Leo-Paul Frigault, Senior Operations Manager, OCWA  
Karla Young, Process Compliance Technician, OCWA  
Mark Smith, Water Compliance Supervisor, MECP  
Dr. Ian Arra, Medical Officer of Health, GBHU

c: File SI-BR-SBP-FD-540 (2021)



FOREMAN DRINKING WATER SYSTEM  
50 FOREMAN DR, SOUTH BRUCE PENINSULA, ON, N0H 1A0  
**Inspection Report**

System Number:	220007711
Inspection Start Date:	09/13/2021
Inspection End Date:	10/14/2021
Inspected By:	Robert Graham
Badge #:	1667

A handwritten signature in black ink, appearing to be 'B. J. M.', written above a horizontal line.

(signature)

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

This should not be construed as a confirmation of full compliance with all potential applicable legal requirement and 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 undersigned Provincial Officer.

### 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>On September 22, 2021, Ministry of the Environment, Conservation and Parks (MECP) Provincial Officer Bob Graham conducted an announced focused inspection of the Foreman Drinking Water System (DWS). The Foreman DWS is a Small Municipal Residential DWS owned by the Town of South Bruce Peninsula and operated by the Ontario Clean Water Agency (OCWA). Assistance with the inspection was provided by Leo-Paul Frigault, OCWA Senior Operations Manager, Karla Young, OCWA Process &amp; Compliance Technician and OCWA Overall Responsible Operator (ORO) James Learn. During the inspection review period, from September 5, 2020, to the date of inspection, September 22, 2021, there was one (1) Adverse Water Quality Incident (AWQI) reported to the MECP Spills Action Centre.</p>		

<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>		
<p>This Drinking Water System provides for both primary and secondary disinfection and distribution of water.</p>		

<b>Question ID</b>	MRDW1007000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials?	Legislative	SDWA   O. Reg. 170/03   1-2   (1)
<b>Observation</b>		
<p>The owner was maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials.</p> <p>The well serving the Foreman DWS is drilled to a depth of 73 meters, has a 125 mm diameter steel casing and is considered ground water under the direct influence of surface water (GUDI). The well casing is sealed with a proper vermin-proof cap and has a pitless adapter. The well casing is extended at least 40 cm above ground and surface drainage does not collect or pond in the vicinity of the well due to mounding around the well casing. Land uses immediately adjacent to the drilled well are predominantly agricultural. The Foreman DWS drilled well is located in excess of 100m, and upslope, from septic systems servicing a residential development located adjacent to Chesley Lake. Agricultural nutrient application and malfunctioning septic systems could potentially pose a risk to the groundwater quality.</p>		

<b>Question ID</b>	MRDW1009000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are measures in place to protect the groundwater and/or GUDI source in accordance with any MDWL and DWWP issued under Part V of the SDWA?	Legislative	SDWA   31   (1)
<b>Observation</b>		
<p>Measures were in place to protect the groundwater and/or GUDI source in accordance with any the Municipal Drinking Water Licence and Drinking Water Works Permit issued under Part V of the SDWA.</p>		

<b>Question ID</b>	MRDW1014000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is there sufficient monitoring of flow as required by the MDWL or DWWP issued under Part V of the SDWA?	Legislative	SDWA   31   (1)
<b>Observation</b>		
<p>There was sufficient monitoring of flow as required by the Municipal Drinking Water Licence or Drinking Water Works Permit issued under Part V of the SDWA.</p>		

<b>Question ID</b>	MRDW1016000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>

Is the owner in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the MDWL issued under Part V of the SDWA?	Legislative	SDWA   31   (1)
<b>Observation</b>		
The owner was in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the Municipal Drinking Water Licence issued under Part V of the SDWA.		
MDWL Schedule C, Table 1, identifies that the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed 165 cubic metres/day. During the inspection review time period, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system was not exceeded.		

<b>Question ID</b>	MRDW1030000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is primary disinfection chlorine monitoring being conducted at a location approved by MDWL and/or DWWP issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved?	Legislative	SDWA   O. Reg. 170/03   7-2   (1), SDWA   O. Reg. 170/03   7-2   (2)
<b>Observation</b>		
Primary disinfection chlorine monitoring was conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved.		

<b>Question ID</b>	MRDW1032000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
If the drinking water system obtains water from a surface water source and provides filtration, is continuous monitoring of each filter effluent line being performed for turbidity?	Legislative	SDWA   O. Reg. 170/03   7-3   (2)
<b>Observation</b>		
Continuous monitoring of each filter effluent line was being performed for turbidity.		

<b>Question ID</b>	MRDW1034000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Is the secondary disinfectant residual measured as required for the small municipal residential distribution system?	Legislative	SDWA   O. Reg. 170/03   7-2   (5), SDWA   O. Reg. 170/03   7-2   (6)
<b>Observation</b>		
The secondary disinfectant residual was measured as required for the distribution system.		



Subsection 7-2 (5) of schedule 7, O.Reg.170/03 the owner of a small municipal residential system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (6) and are tested immediately for, (a) free chlorine residual. Records provided by the owner and reviewed during the inspection indicate that the owner complied with these requirements, testing free chlorine residual for secondary disinfection monitoring purposes 2 days each week and at least 48 hours apart.

<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.		
The water treatment plant is equipped with continuous analyzers and alarms for free chlorine and turbidity. The SCADA system low alarm set point for the treated water chlorine analyzer is 0.50 mg/L, which, if triggered, notifies the operator and activates the trim chlorination system to increase the chlorine concentration. If the chlorine residual lowers to 0.20 mg/L the SCADA system low low alarm is activated which notifies the operator and locks out the DWS ceasing water production ensuring the system meets CT requirements. The SCADA system turbidity analyzer high alarm set point downstream of the filters is set at 0.30 NTU, which, if triggered, notifies the operator. The SCADA system turbidity analyzer high high alarm set point is set at 0.60 NTU, which, if triggered, notifies the operator and locks out the filters ceasing water production and prevents any adverse conditions.		

<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>	MRDW1039000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
If primary disinfection equipment that does not use chlorination or chloramination is provided, has the owner and operating authority ensured that the equipment has a recording device that continuously records the performance of the disinfection equipment?	Legislative	SDWA   O. Reg. 170/03   1-6   (3)
<b>Observation</b>		
The owner and operating authority ensured that the primary disinfection equipment had a recording device that continuously recorded the performance of the disinfection equipment.		

<b>Question ID</b>	MRDW1042000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
If UV disinfection is used were duty sensors and reference UV sensors checked and calibrated as per the requirements of Schedule E of the MDWL or at a frequency as otherwise recommended by the UV equipment manufacturer?	Legislative	SDWA   31   (1)
<b>Observation</b>		
All UV sensors were checked and calibrated as required.		
Records provided by OCWA identify that duty UV sensors were checked monthly against a reference UV sensor, with the calibration ratio (intensity measured with the duty sensor/intensity measured with the reference UV sensor) documented to be less than or equal to 1.2, in compliance with Schedule E of the MDWL. Reference UV sensors shall be checked against a Master Reference Assembly at a minimum frequency of once every three years or on a more frequent basis depending upon the recommendations of the equipment manufacturer.		

<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.		
The operators review the SCADA system monitoring test results daily and sign/date the daily		

SCADA reports.

<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.		
Routine analyzer maintenance, accuracy verification checks and calibrations are conducted by the operator(s) which are recorded in facility log books and daily SCADA reports. Annual analyzer calibrations were performed by HACH in May 2021.		

<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.		

<b>Question ID</b>	MRDW1109000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
If the system uses equipment for primary disinfection other than chlorination or chloramination and the equipment has malfunctioned, lost power or ceased to provide the appropriate level of disinfection, causing 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   1-6   (1)
<b>Observation</b>		
When the primary disinfection equipment, other than that used for chlorination or chloramination,		

has failed causing an alarm to sound or an automatic shut-off to occur, a certified operator responded in a timely manner and took appropriate actions.

<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.		

<b>Question ID</b>	MRDW1023000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do records indicate that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a DWWP and/or MDWL issued under Part V of the SDWA at all times that water was being supplied to consumers?	Legislative	SDWA   O. Reg. 170/03   1-2   (2)
<b>Observation</b>		
Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a Drinking Water Works Permit and/or Municipal Drinking Water Licence issued under Part V of the SDWA at all times that water was being supplied to consumers.		

<b>Question ID</b>	MRDW1024000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Do records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined?	Legislative	SDWA   O. Reg. 170/03   1-2   (2)
<b>Observation</b>		
Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined.		
Free available chlorine residual is maintained out of the clearwell and into the distribution system for secondary disinfection purposes to reduce the potential for microbial re-growth within the distribution system, and in accordance with Section 1- 2(2)4 of Schedule 1, O.Reg.170/03. During		

the inspection review period, free chlorine residual in the distribution system exceeded the minimum secondary disinfection chlorine residual limit of 0.05 mg/L for treatment equipment which provides chlorination.

<b>Question ID</b>	MRDW1026000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
If primary disinfection equipment that does not use chlorination or chloramination is provided, is the equipment equipped with alarms or shut-off mechanisms that satisfy the standards described in Section 1-6 (1) of Schedule 1 of Ontario Regulation 170/03?	Legislative	SDWA   O. Reg. 170/03   1-6   (1)
<b>Observation</b>		
The primary disinfection equipment was equipped with alarms or shut-off mechanisms that satisfied the standards described in Section 1-6 (1) of Schedule 1 of Ontario Regulation 170/03.		

<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.		

<b>Question ID</b>	MRDW1071000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Has the owner provided security measures to protect	BMP	Not Applicable

components of the drinking water system?		
<b>Observation</b>		
The owner had provided security measures to protect components of the drinking water system.		
The pump house and treatment facility is fenced and has lockable doors equipped with an intruder alarm. The drilled well was locked and signage restricts access to the site. At the time of inspection there was no apparent visual evidence of unauthorized access and/or vandalism.		

<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.		
The ORO for the Foreman DWS is James Learn, with back-up being provided by Andrew Bellamy.		

<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.		

<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.		

<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>		

Only certified operators made adjustments to the treatment equipment.

<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>		
Records did not 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).		
On August 5, 2021 a microbiological distribution water sample test result exceedance of Total Coliform (TC) = 31 cfu and E. coli (EC) = 23 cfu was reported to the Grey Bruce Health Unit Medical Officer of Health (MOH) and the MECP SAC by the OA. The Ontario Drinking Water Quality Standards, Ontario Regulation 169/03, maximum for TC and EC is Not Detectable.		
The Ontario Regulation 170/03 Schedule 18 Corrective Action requirements for small municipal residential systems were undertaken by the OA as required and the resample test results (two (2) resample sets) were 0 TC and 0 EC.		

<b>Question ID</b>	MRDW1094000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are all water quality monitoring requirements imposed by the MDWL and DWWP being met?	Legislative	SDWA   31   (1)
<b>Observation</b>		
All water quality monitoring requirements imposed by the MDWL or DWWP issued under Part V of the SDWA were being met.		
Wastewater from the backwash process for the iron and manganese filter system is discharged to a wastewater holding tank where suspended solids are permitted to settle. MDWL Schedule C, Table 3 identifies that the annual average concentration of Backwash Wastewater Facility Total Suspended Solids and Total Chlorine Residual discharged from the holding tank shall not exceed 25 mg/L and 0.02 mg/L, respectively. Table 7 identifies that Backwash Wastewater Total Suspended Solids and Total Chlorine Residuals shall be comprised of grab samples (reference MDWL Section 5.0 for details) taken monthly at the point of discharge from the filter backwash tank. During the inspection review period the above requirements were met.		

<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>		
Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.		

<b>Question ID</b>	MRDW1082000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are all microbiological water quality monitoring requirements for distribution samples prescribed by legislation being met?	Legislative	SDWA   O. Reg. 170/03   11-2   (1),SDWA   O. Reg. 170/03   11-2   (2),SDWA   O. Reg. 170/03   11-2   (6)
<b>Observation</b>		
All microbiological water quality monitoring requirements for distribution samples prescribed by legislation were being met.		
For a Small Municipal Residential DWS, distribution bacteriological samples shall be taken: 1) once every 2 weeks provided that the system is in compliance with Schedule 1 of O.Reg. 170/03, or 2) one sample every week if the system does not meet the requirements of Schedule 1 of O. Reg.170/03. Each sample must be tested for EC + TC and, if secondary disinfection is provided, must also be tested for HPC. OCWA staff conduct distribution bacteriological samples weekly satisfying this requirement.		

<b>Question ID</b>	MRDW1084000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are all inorganic water quality monitoring requirements prescribed by legislation conducted within the required frequency?	Legislative	SDWA   O. Reg. 170/03   13-2
<b>Observation</b>		
All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.		
Sampling and testing for inorganic parameters has been conducted for the DWS in accordance with Schedule 13-2 of Ontario Regulation 170/03. The regulation requires that samples be collected every 60 months and tested for each parameter listed in Schedule 23. The most recent samples were collected on January 5, 2021 and there were no concerns identified from the results.		

<b>Question ID</b>	MRDW1085000	
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Question	Question Type	Legislative Requirement
Are all organic water quality monitoring requirements prescribed by legislation conducted within the required frequency?	Legislative	SDWA   O. Reg. 170/03   13-4   (1),SDWA   O. Reg. 170/03   13-4   (2),SDWA   O. Reg. 170/03   13-4   (3)
<b>Observation</b>		
<p>All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.</p> <p>Sampling and testing for organic parameters has been conducted for the DWS in accordance with Schedule 13-4 of Ontario Regulation 170/03. The regulation requires that samples be collected every 60 months and tested for each parameter listed in Schedule 24. The most recent samples were collected on January 5, 2021 and there were no concerns identified from the results.</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>Section 13-6.1 (1)of Schedule 13, O.Reg.170/03 requires the Owner and the Operating Authority to ensure that at least one distribution sample is taken every 3 months from a point in the drinking water system's distribution system that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Haloacetic Acids (HAAs), and tested for HAAs. Section 6-1.1 of Schedule 6, O.Reg.170/03 requires that these samples be taken at least 60 days, and not more than 120 days, after a sample was taken for that purpose in the previous three month period. The standard for HAAs is expressed as a Running Annual Average (RAA), where the</p>		

RAA is defined as the average for quarterly HAAs results for a DWS. Sampling for the inspection period occurred on October 6, 2020, January 4, 2021, April 6, 2021 and July 5, 2021. The inspection review period RAA concentration for HAAs in the Foreman DWS is 5.3 ug/L. The Ontario Drinking Water Quality Standard is a RAA concentration of 80 ug/L.

<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>		
<p>All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.</p> <p>Section 13-6 of Schedule 13, O.Reg.170/03 requires the Owner and the Operating Authority to ensure that at least one distribution sample is taken every 3 months from a point in the DWS distribution system, or in plumbing that is connected to the DWS, that is likely to have an elevated potential for the formation of Trihalomethanes (THMs), and tested for THMs. Section 6-1.1 of Schedule 6, O.Reg.170/03 requires that these samples be taken at least 60 days, and not more than 120 days, after a sample was taken for that purpose in the previous three month period. Sampling for the inspection period occurred on October 6, 2020 (11.0 ug/L), January 4, 2021 (6.0 ug/L), April 6, 2021 (7.1 ug/L) and July 5, 2021 (9.6 ug/L). The inspection review period RAA concentration for THMs in the Foreman DWS is 8.4 ug/L. The Ontario Drinking Water Quality Standard is a RAA concentration of 100 ug/L.</p>		

<b>Question ID</b>	MRDW1088000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are all nitrate/nitrite water quality monitoring requirements prescribed by legislation conducted within the required frequency for the DWS?	Legislative	SDWA   O. Reg. 170/03   13-7
<b>Observation</b>		
<p>All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency for the DWS.</p> <p>Section 13-7 of Schedule 13, O.Reg.170/03 requires the Owner and operating authority to ensure that at least one water sample is taken every three months and tested for nitrates and nitrites. Section 6-1.1 of Schedule 6, O.Reg.170/03 requires that these samples be taken at least 60 days, and not more than 120 days, after a sample was taken for that purpose in the previous three month period. OCWA staff complied with these requirements when they conducted the required monitoring on October 6, 2020, January 4, 2021, April 6, 2021 and July 5, 2021. There were no concerns identified with the sample results.</p>		

<b>Question ID</b>	MRDW1089000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Are all sodium water quality monitoring requirements prescribed by legislation conducted within the required frequency?	Legislative	SDWA   O. Reg. 170/03   13-8
<b>Observation</b>		
All sodium water quality monitoring requirements prescribed by legislation were conducted within the required frequency.		
Section 13-8 of Schedule 13, O.Reg.170/03 requires that a treated water sample is taken every 60 months and is tested for sodium. Records provided by OCWA indicate that sampling for sodium was conducted on January 9, 2017 with a result of 16.2 mg\L.		

<b>Question ID</b>	MRDW1090000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
Where fluoridation is not practiced, are all fluoride water quality monitoring requirements prescribed by legislation conducted within the required frequency?	Legislative	SDWA   O. Reg. 170/03   13-9
<b>Observation</b>		
All fluoride water quality monitoring requirements prescribed by legislation were conducted within the required frequency.		
Section 13-9 of Schedule 13, O.Reg.170/03 requires that at least one water sample is taken every 60 months and tested for Fluoride. OCWA staff conducted Fluoride sampling on January 9, 2017 with a result of 1.30 mg/L.		

<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 reportable adverse/exceedances during the inspection period.		
AWQI No. 154957 was reported to the Grey Bruce Health Unit Medical Officer of Health (MOH) and the MECP SAC on August 5, 2021 concerning a microbiological distribution water sample test result exceedance of Total Coliform (TC) = 31 cfu and E. coli (EC) = 23 cfu. The Ontario Regulation 169/03 Ontario Drinking Water Quality Standards maximum for TC and EC is Not Detectable.		

<b>Question ID</b>	MRDW1102000	
<b>Question</b>	<b>Question</b>	<b>Legislative</b>

	Type	Requirement
Have corrective actions (as per Schedule 18) been taken to address adverse conditions, including any other steps as directed by the Medical Officer of Health?	Legislative	SDWA   O. Reg. 170/03   18-10   (1),SDWA   O. Reg. 170/03   18-11,SDWA   O. Reg. 170/03   18-12,SDWA   O. Reg. 170/03   18-13,SDWA   O. Reg. 170/03   18-14,SDWA   O. Reg. 170/03   18-2,SDWA   O. Reg. 170/03   18-3,SDWA   O. Reg. 170/03   18-4,SDWA   O. Reg. 170/03   18-5,SDWA   O. Reg. 170/03   18-6,SDWA   O. Reg. 170/03   18-9

**Observation**

Corrective actions (as per Schedule 18) had been taken to address adverse conditions, including any other steps that were directed by the Medical Officer of Health.

AWQI No. 154957 was reported to the Grey Bruce Health Unit Medical Officer of Health (MOH) and the MECPSAC on August 5, 2021 concerning a microbiological distribution water sample test result exceedance of Total Coliform (TC) = 31 cfu and E. coli (EC) = 23 cfu. The Ontario Regulation 169/03 Ontario Drinking Water Quality Standards maximum for TC and EC is Not Detectable.

The OA undertook all required corrective actions as per Schedule 17 under O. Reg. 170/03 to address the adverse conditions, including other steps directed by the Medical Officer of Health which included the issuance of a Boil Water Advisory and written notices delivered to all affected residences/users.

Question ID	MRDW1104000	Question	Question Type	Legislative Requirement
		Were all required verbal notifications of adverse water quality incidents immediately provided as per O. Reg. 170/03 16-6?	Legislative	SDWA   O. Reg. 170/03   16-6   (1),SDWA   O. Reg. 170/03   16-

		6   (2),SDWA   O. Reg. 170/03   16-6   (3),SDWA   O. Reg. 170/03   16-6   (3.1),SDWA   O. Reg. 170/03   16-6   (3.2), SDWA   O. Reg. 170/03   16-6   (4),SDWA   O. Reg. 170/03   16-6   (5),SDWA   O. Reg. 170/03   16-6   (6)
<b>Observation</b>		
All required notifications of adverse water quality incidents were immediately provided as per O. Reg. 170/03 16-6.		

<b>Question ID</b>	MRDW1112000	
<b>Question</b>	<b>Question Type</b>	<b>Legislative Requirement</b>
If the drinking water system was required to post warning notices, were approved warning notices posted in accordance with O. Reg. 170/03 19-2?	Legislative	SDWA   O. Reg. 170/03   19-2   (1),SDWA   O. Reg. 170/03   19-2   (2),SDWA   O. Reg. 170/03   19-2   (3)
<b>Observation</b>		
The drinking water system was required to post warning notices and approved warning notices were posted in accordance with O. Reg. 170/03 19-2.		

<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>		
The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.		

<b>Question ID</b>	MRDW1061000	
<b>Question</b>	<b>Question</b>	<b>Legislative</b>

	<b>Type</b>	<b>Requirement</b>
Are logbooks properly maintained and contain the required information?	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)
<b>Observation</b>		
Logbooks were properly maintained and contained the required information.		



**Ministry of the Environment, Conservation and Parks  
Drinking Water Inspection Report**

**APPENDIX B**

**REFERENCE GUIDE FOR STAKEHOLDERS**

# 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

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

**DWS Name:** FOREMAN DRINKING WATER SYSTEM  
**DWS Number:** 220007711  
**DWS Owner:** THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA  
**Municipal Location:** SOUTH BRUCE PENINSULA

**Regulation:** O.REG. 170/03  
**DWS Category:** DW Municipal Residential  
**Type of Inspection:** Focused  
**Inspection Date:** Sep-13-2021  
**Ministry Office:** Owen Sound District Office

**Maximum Risk Rating:** 552

Inspection Module	Non Compliance Rating
Source	0 / 14
Capacity Assessment	0 / 30
Treatment Processes	0 / 228
Operations Manuals	0 / 28
Logbooks	0 / 18
Certification and Training	0 / 42
Water Quality Monitoring	0 / 91
Reporting & Corrective Actions	0 / 101
<b>Overall - Calculated</b>	<b>0 / 552</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:** FOREMAN DRINKING WATER SYSTEM  
**DWS Number:** 220007711  
**DWS Owner Name:** THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA  
**Municipal Location:** SOUTH BRUCE PENINSULA

**Regulation:** O.REG. 170/03  
**DWS Category:** DW Municipal Residential  
**Type of Inspection:** Focused  
**Inspection Date:** Sep-13-2021  
**Ministry Office:** Owen Sound District Office

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

Maximum Question Rating: 552

Inspection Risk Rating: 0.00%

FINAL INSPECTION RATING: 100.00%