Ministry of the Environment and Climate Change

Drinking Water and Environmental Compliance Division

Owen Sound District Office
101 17th St. E, 3rd Floor
Owen Sound ON N4K 0A5

Ministère de l'Environnement et de l'Action en matière de changement climatique

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

Bureau du district de Owen Sound
101, 17e rue Est, 3e étage
Owen Sound ON N4K 0A5

Ontario

February 2, 2018

The Corporation of the Town of South Bruce Peninsula
315 George St., P.O. Box 310
Wiarton, Ontario
N0H 2T0

Attention: Brad McRoberts,CAO

Re: 2017/2018 Inspection Report 1-F6FUU
Amabel Sauble Drinking Water System
Drinking Water Licence # 094-101 #2
Drinking Water Works Permit 094-201, Issue # 3

The enclosed report documents findings of the inspection that was performed on November 27, 2017.

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.

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 (http://www.ontario.ca/environment-and-energy/municipal-drinking-water-systems-licencing-registration-and-permits), 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,

Shayne Finlay
Provincial Officer

Water Inspector
519-376-2024 / Cell 519-270-8955
Fax 519-371-2905
shayne.finlay@ontario.ca

ec: -John Ritchie, Water Compliance Supervisor, MOECC
- Leo Paul Frigault, Operations Manager, OCWA
- Dr. Hazel Lynn, Medical Officer of Health, Grey-Bruce Health Unit
- John Bittorf, Water Resources Coordinator, Grey Sauble Conservation Authority

c: File SI BR SB CD 540

Ontario

Ministry of the Environment and Climate Change

AMABEL-SAUBLE DRINKING WATER SYSTEM

Inspection Report

Site Number:	220007917
Inspection Number:	1-F6FUU
Date of Inspection:	Nov 27, 2017
Inspected By:	Shayne Finlay

OWNER INFORMATION:

Company Name:	SOUTH BRUCE PENINSULA, THE CORPORATION OF THE TOWN OF		
Street Number:	315	**Unit Identifier:**	Box 310
Street Name:	GEORGE St		
City:	WIARTON		
Province:	ON	**Postal Code:**	N0H 2T0

CONTACT INFORMATION

Type:	Operating Authority	**Name:**	Leo-Paul Frigault
Phone:	(519) 534-1600	**Fax:**	
Email:	lfrigault@ocwa.com		
Title:	OCWA - Operations Manager, West Highlands Hub.		

Type:	Owner	**Name:**	Brad McRoberts
Phone:	(519) 534-1400 x122	**Fax:**	(519) 534-4976
Email:	tsbpcao@bmts.com		
Title:	Chief Administrative Officer		

INSPECTION DETAILS:

Site Name:	AMABEL-SAUBLE DRINKING WATER SYSTEM
Site Address:	628 D LINE SAUBLE BEACH ON N0H 2G0
County/District:	The South Bruce Peninsula
MOECC District/Area Office:	Owen Sound Area Office
Health Unit:	GREY BRUCE HEALTH UNIT
Conservation Authority:	Grey Sauble Conservation Authority
MNR Office:	Owen Sound Regional Office
Category:	Large Municipal Residential
Site Number:	220007917
Inspection Type:	Unannounced
Inspection Number:	1-F6FUU
Date of Inspection:	Nov 27, 2017
Date of Previous Inspection:	Dec 07, 2016

COMPONENTS DESCRIPTION

Site (Name):	MOE DWS Mapping		
Type:	DWS Mapping Point	**Sub Type:**	

Site (Name):	Well # 1 (PW1)		
Type:	Source	**Sub Type:**	GUDI w/o Effective Insitu

Comments:
This raw water source is used in conjunction with PW2 as the primary water source. This is a 150 mm diameter 102 m deep drilled well equipped with a submersible pump rated at 4 L/sec.

Site (Name): Well # 2 (PW2)
Type: Source **Sub Type:** GUDI w/o Effective Insitu
Comments:
This raw water source is used in conjunction with PW1 as a primary water source for this drinking water system. This is a 150 mm diameter 86.9 m deep drilled well. It is equipped with a submersible well pump rated at 4 L/sec.

Site (Name): Well (Winburk)
Type: Source **Sub Type:** GUDI
Comments:
This raw water source for the Amabel-Sauble DWS consists of a 150 mm diameter, 87-metre deep drilled groundwater well which is GUDI and is used only as a standby source. It was constructed in 1977 and has steel casing. Upgrades to the well were completed in 2009 to remove the well pit. The well is equipped with a 6.05 L/s (80 IGPM) capacity 10 HP submersible well pump. A raw watermain from the former Winburk pumphouse to the new Amabel-Sauble Water Treatment Plant was installed from Bunnyview Drive to the D-Line.

Site (Name): Amabel-Sauble Water Treatment Plant
Type: Treated Water POE **Sub Type:** Treatment Facility
Comments:
The Amabel-Sauble Water Treatment Plant houses the treatment and control facilities including:
• Iron Removal with two pressure vessels containing anthracite and catalytic media.
• Chlorine Disinfection System with three pumps each with a dedicated duty. One pump is used for iron and manganese oxidation, one is used to chlorinate treated water after UV disinfection prior to water entering the clearwell and the third pump is used for post chlorination.
• Additional Disinfection System consisting of one cartridge filter housing prior to the two (2) UV disinfection units.
• Clearwell/Storage Tank with high lift and backwash pumps.
• Residual Management System consisting of one backwash holding tank which discharges supernatant to the ditch and the remaining sludge is pumped via a connection at the building exterior.
• Standby Power consisting of generator with a 32 hour double wall sub-base fuel tank.
• There is also, one (1) programmable logic controller and associated SCADA system for control of plant operations, a chlorine residual analyzer, treated water turbidity analyzer, filtered water turbidity analyzer and Raw, Treated and Backwash flow meters.
As per CT control document dated 04/13/2012 provided by OCWA . The Procedure for Disinfecting Drinking Water in Ontario requires the Amabel Sauble system to achieve 4 log (99.99%) Inactivation of Viruses by Free Chlorine with a Raw Water temperature of 5 degrees Celsius, with a pH between 6 – 9 the required CT value = 8
Clearwell capacity =654 m3
Clearwell volume required for fire protection 1.6 m = 43%
Baffle ratio = 0.1
Flow rate = 687 m3/day (0.477 m3/min)
Effective Contact time = (654 x 0.43 x 0.1) / 0.477
Effective Contact Time = 28.12 / 0.477 = 58.95 min
CT (required) = Disinfection Residual Concentration (mg/L) x Effective contact time (min)
The minimum disinfection residual can be calculated using the following formula:
Minimum Disinfection Residual (mg/L) = CT (required) / Effective contact time (min)
Minimum Disinfection Residual (mg/L) = 8 / 58.95 = 0.135
A minimum Free Chlorine Concentration of 0.14 mg/L is required to meet primary disinfection with a minimum clearwell volume of 281.2 m3 (43%).

Site (Name): Amabel-Sauble Distribution System
Type: Other **Sub Type:** Other

Comments:
The Amabel-Sauble distribution system connected seven former distribution systems (Gremik, Thompson, Trask, Forbes, Winburk, Fedy and Robins). Trunk watermains were constructed on Sauble Falls Parkway, Woodland Crescent, 6th Street North, 3rd Avenue North, 9th Street North, 2nd Avenue North, D-Line, Jewel Bridge Road, Deer Trail Road and Martin Drive in Sauble Beach. There are fire hydrants on the trunk mains and two air release valve chambers.
A second distribution line, originating at the water treatment plant supplies water to the Amabel-Sauble School.
There are approximately 300 service connections in the Amabel-Sauble distribution system serving a population of approximately 730 residents.

INSPECTION SUMMARY:

Introduction

- **The primary focus of this inspection is to confirm compliance with Ministry of the Environment and Climate Change (MOECC) legislation as well as evaluating conformance with ministry drinking water related 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.**

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

  This report is based on a "focused" inspection of the system. Although the inspection involved fewer activities than those normally undertaken in a detailed inspection, it contained critical elements required to assess key compliance issues. This system was chosen for a focused inspection because the system's performance met the ministry's criteria, most importantly that there were no deficiencies as identified in O.Reg. 172/03 over the past 3 years. The undertaking of a focused inspection at this drinking water system does not ensure that a similar type of inspection will be conducted at any point in the future.

  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.

  On November 27 , 2017 Provincial Officer Shayne Finlay began conducting the inspection of the Amabel Sauble Well Supply located in the municipality of South Bruce Peninsula. The system is operated by OCWA. This years inspection cycle covers the period December 7 , 2016 - November 27, 2017.

Source

- **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.**

  Amabel Sauble water system has 3 production wells which have well casing sealed with proper vermin-caps.Well casings are 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 well casings.

- **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.**

Capacity Assessment

- **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.**

  Flow meters are installed downstream of each raw water source and at the point of entry into the distribution system. The flow meters were calibrated May 8, 2017.

- **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.**

  Under PTTW 3385-83CR6V the allowable water takings are listed as:
  Well PW1 477 L/min and 687,000 L/day

Capacity Assessment

Well PW2: 477 L/min and 687,000 L/day
Well Winburk : 364 L/min and 262,080 L/day max hours of taking 12 hours per day.
Note Section 3.3 of the PTTW, the maximum total taking from any combination of Well PW1 and /or Well PW2 shall not exceed 687,000 litres per day. This maximum rate of withdrawal shall not occur on more than 120 days per year. On all other days of the year, the maximum total taking from any combination of Well PW1 and/or Well PW2 shall not exceed 535,680 litres per day. The owner is in compliance with PTTW # 3385-83CR6V which expires March 31, 2017.
The drinking water system was issued Drinking Water Works Permit 094-201, Issue # 3 and a Municipal Licence # 094-101 issue #2 with a licence renewal date of March 17, 2020. The rated capacities listed in Schedule C are listed as: 687 cubic meters per day.
Records show the water takings and the rated capacities were not exceeded during the inspection period.

Treatment Processes

- **The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.**

- **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.**

  Records reviewed indicate that the Amabel Sauble WS was operated to achieve the necessary CT requirements and UV performance criteria for primary disinfection during the inspection cycle.
  Further details about the CT calculation provided by OCWA dated April 13, 2012 can be found in the components section of the report.

- **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 treatment plant 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 1-5 of Schedule 1, O.Reg.170/03.

- **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.**

  The drinking water system has both UV alarms and lockouts. Any alarms or lockouts are documented on the SCADA system and in Logbooks.

Treatment Process Monitoring

- **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.**

  The water system has an effective contact time of 58.95 minutes and a minimum free chlorine residual of at least 0.14 mg/L is required to meet primary disinfection with a minimum clearwell volume of 281.2 m3 (43%) , as per CT calculation provided by the OA.
  It's noted that the pumphouses treated CL2 Analyzer low set point is 0.60 mg/l with a 10 second delay. When this is reached the dialer system alarms out and an operator is dispatched. If the chlorine residual reaches 0.20 mg\L the high lift pumps lock out to ensure improperly disinfected water is not

Treatment Process Monitoring

directed to the users.

- **Continuous monitoring of each filter effluent line was being performed for turbidity.**

  For large municipal residential systems that use surface water or GUDI as the source and are required to provide filtration, Reg.170/03, Schedule 7 section 7(3)(2) requires continuous monitoring equipment of each filter effluent line. The water system has two (2) pressure filtration vessels (one duty and one standby) each rated at 8.2 L/s containing approximately 300 mm deep layer of anthracite and 600 mm deep layer of catalytic media used in conjunction with chlorine oxidation which is used for iron and manganese oxidation and one (1) cartridge filter housing with 3 filters rated at 1 micron or smaller for pre-treatment of the ultraviolet disinfection system .Continuous monitoring of turbidity is measured via one analyzer located downstream of the cartridge filters and prior to the Trojan UV units.

- **The secondary disinfectant residual was measured as required for the distribution system.**

  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 1-5 of Schedule 1, O.Reg.170/03.

- **Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.**

  The operators review the daily SCADA system at least every 72 hours. The operator conducting the review signs and dates the daily SCADA report.

- **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. When low alarm set point of 0.60 mg/L is reached the water systems trim chlorinate is activated and operators are notified via SCADA alarm. When the treated water chlorine analyzer registers 0.20 mg/L the system locks out ensuring the system meets their CT requirements. The turbidity analyzer set point downstream of the filters is 0.30 NTU. Should 0.60 NTU be reached the system alarm sequence is triggered and the filters are locked out ,ceasing water production and preventing any adverse conditions.

- **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.**

- **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 monthly by the operator which are recorded in plant logs and daily SCADA reports.

Operations Manuals

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

- **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.**

Operations Manuals

Logbooks

- **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.**

  Condition 16, Schedule B of the Licence # 094-101 prescribes that an up-to-date operations and maintenance manual or manuals is maintained and applicable parts of the manual or manuals are made available for reference by all persons responsible for all or part of the operation or maintenance of the drinking water system; this requirement has been met. The OA reminded to updated manuals at least every 2 years and should have the most recent contact lists, AWWA standards, licences and water works permits.

Security

- **The owner had provided security measures to protect components of the drinking water system.**

Certification and Training

- **The overall responsible operator had been designated for each subsystem.**

  James Learn is the designated overall responsible operator for the Amabel Sauble drinking water system.

- **Operators in charge had been designated for all subsystems which comprised the drinking-water system.**

- **All operators possessed the required certification.**

  Records provided by the OA for review indicate that licensed operators appear to be the only persons who are adjusting water treatment equipment and processes at the water treatment plant.

- **Only certified operators made adjustments to the treatment equipment.**

  Records provided by the OA for review indicate that licensed operators appear to be the only persons who are adjusting water treatment equipment and processes at the water treatment plant.

Water Quality Monitoring

- **All microbiological water quality monitoring requirements for distribution samples were being met.**

  A review of the sample results supplied by the OA indicates that the operators are routinely collecting two distribution samples each week in order to comply with the regulatory requirement. Each of those samples were tested for E.Coli., total coliform, and approximately half of the samples were tested for general bacteria populations expressed as colony counts on a heterotrophic plate count.

- **All microbiological water quality monitoring requirements for treated samples were being met.**

  Section 10-3 of Schedule 10, O.Reg.170/03 requires the Owner and the OA to ensure samples are collected at least once every week from the system's treated water at the point of entry into the distribution system. The samples collected are required to be tested for E.Coli and total coliform,and general bacteria populations expressed as colony counts on a heterotrophic plate count. Records reviewed in the course of this inspection indicate that the OA complied with these requirements.

Water Quality Monitoring

- **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 drinking water system in accordance with Schedule 13-2 of Ontario Regulation 170/03. The regulation requires that samples are to be collected every 12 months and tested for each parameter listed in Schedule 23; this requirement has been met. The most recent samples were collected on January 9, 2017 and there were no concerns identified from the results.

- **All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

  Sampling and testing for organic parameters has been conducted for the drinking water system in accordance with Schedule 13-4 of Ontario Regulation 170/03. The regulation requires that samples are to be collected every 12 months and tested for each parameter listed in Schedule 24; this requirement has been met. The most recent samples were collected on January 9, 2017 and there were no concerns identified from the results.

- **All haloacetic acid water quality monitoring requirements prescribed by legislation are being conducted within the required frequency and at the required location.**

  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 (HAA), 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 Haloacetic Acids does not come into effect until January 1, 2020. It will be expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly HAA results for a drinking water system. HAAs will generally form at the beginning of the distribution system. Sampling occurred January 9, 2017, April 3, 2017, July 10, 2017 and October 16, 2017 . The running annual average of samples collected in 2017 is 7.6 ug/L.

- **All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.**

  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 drinking water system's distribution system, or in plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Trihalomethanes (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. The Owner complied with these requirements when they conducted the required monitoring onSection 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 drinking water system's distribution system, or in plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Trihalomethanes (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. The Owner complied with these requirements when they conducted the required January 9, 2017, April 3, 2017, July 10, 2017 and October 16, 2017 . There were no concerns identified with the sample results.

- **All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency for the DWS.**

  Section 13-7 of Schedule 13, O.Reg.170/03 requires the Owner and Operating authority to ensure

Water Quality Monitoring

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. The Owner complied with these requirements when they conducted the required monitoring on January 9, 2017, April 3, 2017, July 10, 2017 and October 16, 2017. There were no concerns identified with the sample results.

- **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 the Owner and the Operating Authority ensure that a treated water sample is taken every 60 months and is tested for sodium. Records provided by the Owner and reviewed during the inspection, indicate that the OA conducted sampling for sodium on January 11, 2015 with a result of 13.8 mg\L.

- **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 the Owner and the Operating Authority to ensure that at least one water sample is taken every 60 months and tested for Fluoride. The OA last conducted Fluoride sampling on January 11, 2015, and achieved a result of 1.48 mg/L.

- **All water quality monitoring requirements imposed by the Municipal Drinking Water Licence and Drinking Water Works Permit were being met.**

  The Municipal Drinking Water Licence that came into effect on March 30, 2010 requires quarterly testing of suspended solids at the point of discharge from the filter backwash tank the maximum concentration is not to exceed the annual average concentration of 25 mg\L. The OA sampled TSS quarterly on January 9, 2017, April 3, 2017, July 10, 2017 and October 16, 2017 and the annual average was 2 mg\L . These requirements have been met.

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

Water Quality Assessment

- **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).**

Reporting & Corrective Actions

- **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.**

- **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.**

NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS REQUIRED

This section provides a summary of all non-compliance with regulatory requirements identified during the inspection period, as well as actions required to address these issues. Further details pertaining to these items can be found in the body of the inspection report.

Not Applicable

SUMMARY OF RECOMMENDATIONS AND BEST PRACTICE ISSUES

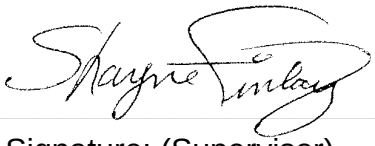
This section provides a summary of all recommendations and best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following issues and consider measures to address them.

Not Applicable

SIGNATURES

Inspected By: Signature: (Provincial Officer)

Shayne Finlay



Reviewed & Approved By: Signature: (Supervisor)

John Ritchie

Review & Approval Date: 02/02/2018

Note: This inspection does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they apply or may apply to this facility. It is, and remains, the responsibility of the owner and/or operating authority to ensure compliance with all applicable legislative and regulatory requirements.

APPENDIX A

INSPECTION SUMMARY RATING RECORD

Ministry of the Environment - Inspection Summary Rating Record (Reporting Year - 2017-2018)

DWS Name:	AMABEL-SAUBLE DRINKING WATER SYSTEM
DWS Number:	220007917
DWS Owner:	South Bruce Peninsula, The Corporation Of The Town Of
Municipal Location:	The South Bruce Peninsula
Regulation:	O.REG 170/03
Category:	Large Municipal Residential System
Type Of Inspection:	Focused
Inspection Date:	November 27, 2017
Ministry Office:	Owen Sound District Office

Maximum Question Rating: 518

Inspection Module	Non-Compliance Rating
Source	0 / 28
Capacity Assessment	0 / 30
Treatment Processes	0 / 77
Operations Manuals	0 / 28
Logbooks	0 / 14
Certification and Training	0 / 42
Water Quality Monitoring	0 / 124
Reporting & Corrective Actions	0 / 42
Treatment Process Monitoring	0 / 133
TOTAL	**0 / 518**

Inspection Risk Rating	**0.00%**

FINAL INSPECTION RATING:	**100.00%**

Inspection Rating Record Generated On 02-FEB-18 (Inspection ID: 1-F6FUU).

Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2017-2018)

DWS Name:	AMABEL-SAUBLE DRINKING WATER SYSTEM
DWS Number:	220007917
DWS Owner:	South Bruce Peninsula, The Corporation Of The Town Of
Municipal Location:	The South Bruce Peninsula
Regulation:	O.REG 170/03
Category:	Large Municipal Residential System
Type Of Inspection:	Focused
Inspection Date:	November 27, 2017
Ministry Office:	Owen Sound District Office

Maximum Question Rating: 518

Inspection Risk Rating	**0.00%**

FINAL INSPECTION RATING:	**100.00%**

Inspection Rating Record Generated On 02-FEB-18 (Inspection ID: 1-F6FUU).

APPENDIX B

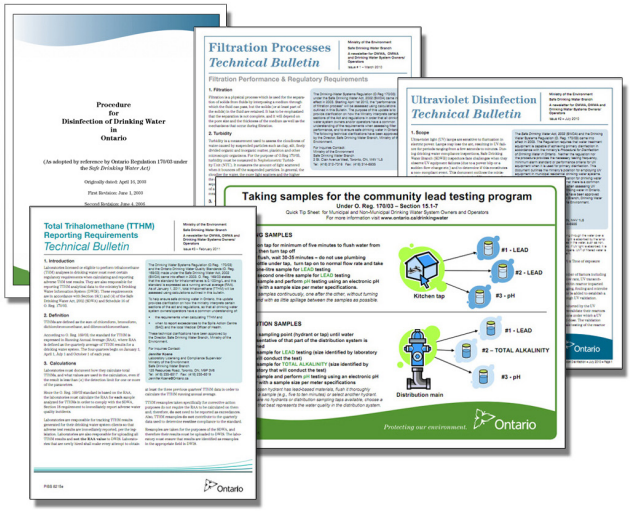
REFERENCE GUIDE FOR STAKEHOLDERS

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 Public Information Centre if you need assistance or have questions at 1-800-565-4923/416-325-4000 or **picemail.moe@ontario.ca**.

For more information on Ontario's drinking water visit **www.ontario.ca/drinkingwater** and email **drinking.water@ontario.ca** to subscribe to drinking water news.



PUBLICATION TITLE	PUBLICATION NUMBER
Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils	7889e01
FORMS: Drinking Water System Profile Information, Laboratory Services Notification, Adverse Test Result Notification Form	7419e, 5387e, 4444e
Procedure for Disinfection of Drinking Water in Ontario	4448e01
Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids	7152e
Total Trihalomethane (TTHM) Reporting Requirements Technical Bulletin (February 2011)	8215e
Filtration Processes Technical Bulletin	7467
Ultraviolet Disinfection Technical Bulletin	7685
Guide for Applying for Drinking Water Works Permit Amendments, Licence Amendments, Licence Renewals and New System Applications	7014e01
Certification Guide for Operators and Water Quality Analysts	
Guide to Drinking Water Operator Training Requirements	9802e
Taking Samples for the Community Lead Testing Program	6560e01
Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption	7423e
Guide: Requesting Regulatory Relief from Lead Sampling Requirements	6610
Drinking Water System Contact List	7128e
Technical Support Document for Ontario Drinking Water Quality Standards	4449e01

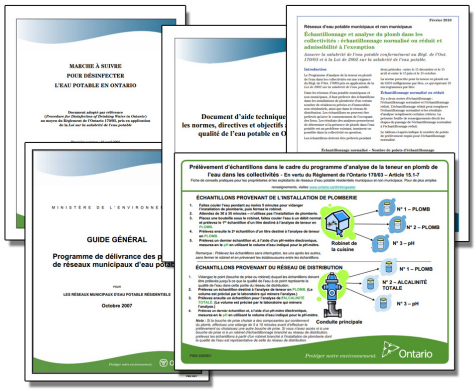
PIBS 8990b01

Ontario

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 Centre d'information au public au 1 800 565-4923 ou au 416 325-4000, ou encore à **picemail.moe@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** ou envoyez un courriel à **drinking.water@ontario.ca** pour suivre l'information sur l'eau potable.

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Prendre soin de votre eau potable – Un guide destiné aux membres des conseils municipaux	7889f01
Renseignements sur le profil du réseau d'eau potable, Avis de demande de services de laboratoire, Formulaire de communication de résultats d'analyse insatisfaisants et du règlement des problèmes	7419f, 5387f, 4444f
Marche à suivre pour désinfecter l'eau potable en Ontario	4448f01
Strategies for Minimizing the Disinfection Products Thrihalomethanes and Haloacetic Acids (en anglais seulement)	7152e
Total Trihalomethane (TTHM) Reporting Requirements: Technical Bulletin (février 2011) (en anglais seulement)	8215e
Filtration Processes Technical Bulletin (en anglais seulement)	7467
Ultraviolet Disinfection Technical Bulletin (en anglais seulement)	7685
Guide de présentation d'une demande de modification du permis d'aménagement de station de production d'eau potable, de modification du permis de réseau municipal d'eau potable, de renouvellement du permis de réseau municipal d'eau potable et de permis pour un nouveau réseau	7014f01
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	
Guide sur les exigences relatives à la formation des exploitants de réseaux d'eau potable	9802f
Prélèvement d'échantillons dans le cadre du programme d'analyse de la teneur en plomb de l'eau dans les collectivités	6560f01
Échantillonnage et analyse du plomb dans les collectivités : échantillonnage normalisé ou réduit et admissibilité à l'exemption	7423f
Guide: Requesting Regulatory Relief from Lead Sampling Requirements (en anglais seulement)	6610
Liste des personnes-ressources du réseau d'eau potable	7128f
Document d'aide technique pour les normes, directives et objectifs associés à la qualité de l'eau potable en Ontario	4449f01

PIBS 8990b01

Ontario