

**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, 17^e rue Est, 3^e étage
Owen Sound ON N4K 0A5



April 12, 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 1-1-F6G0C
Wiarton Drinking Water System
Drinking Water Licence # 094-102
Drinking Water Works Permit 094-202, Issue # 2

The enclosed report documents findings of the inspection that was performed on February 6, 2018.

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) (<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
 - Megan Edney, Process and Compliance Technician

c: File SI BR SB BA 540



Ministry of the Environment and Climate Change

**WIARTON DRINKING WATER SYSTEM
Inspection Report**

Site Number:	220002681
Inspection Number:	1-F6G0C
Date of Inspection:	Feb 06, 2018
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:	Megan Edney
Phone:	(519) 534-1600	Fax:	
Email:	medney2@ocwa.com		
Title:	Process Compliance Technician (OCWA).		

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:	WIARTON DRINKING WATER SYSTEM
Site Address:	897 BAYVIEW ST WIARTON ON N0N 0N0
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:	220002681
Inspection Type:	Announced
Inspection Number:	1-F6G0C
Date of Inspection:	Feb 06, 2018
Date of Previous Inspection:	Jan 30, 2017

COMPONENTS DESCRIPTION

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

Site (Name):	Raw Water
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Type: Source **Sub Type:** Surface Water

Comments:

The Wiarton drinking water system is supplied by two 450 mm diameter polyethylene raw water intakes extending into Colpoy's Bay. The main intake extends approximately 180 metres into the bay. The second (back up) intake extends approximately 45 metres into the bay.

Both intakes are equipped with zebra mussel control (sodium hypochlorite).

Site (Name): Treatment Facility
Type: Treated Water POE **Sub Type:** Treatment Facility

Comments:

Treatment at the Wiarton drinking water system includes: pH adjustment using sodium bisulphate; chemically-assisted filtration (flocculation and dual media filters) using polyaluminium chloride; pre and post chlorination (sodium hypochlorite) and UV irradiation.

An activated carbon feed system is also available for taste and odour control but is not currently in use. CT calculation provided by the OA. The total treatment credits as listed in the Wiarton Disinfection Performance Assessment are; Crypto is achieved by 2 log filtration and 24 log UV credits, Giardia is achieved by 2 log filtration, 0.1 log chlorine contact and 24 log UV credits, viruses is achieved by 1 log filtration, 3 log chlorine contact and 3 log UV credits. According to the Procedure for Disinfection of Drinking Water in Ontario for a 3 log (99.99%) Inactivation of Viruses by Free Chlorine with a Raw Water temperature of 0.5 degrees Celsius, with a pH between 6 – 9 is required for a CT value = 9

Clearwell capacity = 751 m³

Minimum clearwell level = 60%

Baffle ratio = 0.3

Flow rate = 5400 m³/day (3.75 m³/min)

Effective Contact time = (751 x 0.6 x 0.3) / 3.75

Effective Contact Time = 135.18 / 3.75 = 36.04 min

CT (required) = Disinfection Residual Concentration (mg/L) x Effective contact time (min)

Minimum Disinfection Residual (mg/L) = CT (required) / Effective contact time (min)

Minimum Disinfection Residual (mg/L) = 9 / 36.04 = 0.249

A minimum Free Chlorine Concentration of 0.25 mg/L is required to meet primary disinfection with a minimum clearwell volume of 450.6 m³ (60%).

Site (Name): Water Distribution System
Type: Other **Sub Type:** Other

Comments:

The Wiarton distribution system has approximately 1062 service connections and serves an estimated population of 2,300 residents. There are approximately 23.5 kilometres of watermains and approximately 87 fire hydrants. Approximately 54% of the watermains are constructed of PVC with the remainder constructed of cast iron and ductile iron.

The standpipe and booster station are located in a fenced area near the intersection of Jenny and Gould Streets. The standpipe has a volume of greater than two days water storage (2,893 cubic metres). The booster station services a pressure zone in the area of Gould Street, Daniel Street and Jenny Street.

The Wiarton Water Treatment Plant also serves the Oxenden Distribution System located east of the Town of Wiarton. This distribution system is owned by the Township of Georgian Bluffs and operated by Veolia Water Canada. Oxenden is a residential area with population of less than 500 consumers.

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 February 6, 2018 Provincial Officer Shayne Finlay began conducting the inspection of the Wiarton Water Treatment System located in the municipality of South Bruce Peninsula. The system is operated by OCWA. This year's inspection cycle is from January 30, 2017- February 6, 2018.

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.
- 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.

The Wiarton Drinking Water System has the following control documents in place:

-Municipal Drinking Water Licence Number: 094-102 Issue Number: 2 issued March 19th, 2015 with a rated capacity of 5,400 m³/d.

-Drinking Water Works Permit 094-202 Issue Number: 2 issued March 19th, 2015.

- PTTW 5181-9DFR4C with a drinking water source from Colpoy's Bay expiring November 14, 2023 with a Max taking of 5394 m³/d (3764 l/m). It's noted the owner can increase its max water taking to 4500 L/m for not greater than one hour for pump start up circumstances. The document holder shall document any readings greater than 3764 L/m and the rationale for each exceedance.

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.
- The owner/operating authority was in compliance with the requirement to prepare Form 2 documents as

Treatment Processes

required by their Drinking Water Works Permit during the inspection period.

- **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 Warton Water Treatment Plant was operated to achieve the necessary UV criteria, CT requirements and filter performance criteria for primary disinfection purposes during the inspection cycle.

- **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 UV units and filters are equipped with alarms and automatic shut-offs. When the UV fails and causes an alarm to be generated, operators are called to the facility. The operators conduct a CT calculation to determine if disinfection has been achieved and in the event that it is not they are to follow the emergency SOP for Adverse Water Quality Incidents.

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.**

A minimum Free Chlorine Concentration of 0.25 mg/L is required to meet primary disinfection with a minimum clearwell volume of 450.6 m³ (60%) as per the owner's CT calculation provided by the OA. The OA is reminded that a new MDWL was issued March 15, 2018 with an updated Schedule E which states at all times, CT provided shall be greater than or equal to the CT required to achieve the log removal credits assigned. Gaps in data should correlate to times when the plant was not treating water, or for maintenance of the analyzer.

After a review of records provided by the OA, these requirements have been met.

- **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. Continuous monitoring for turbidity is required only of the filter effluent that is directed to the next treatment process/stage (and eventually to the distribution system). Gaps in data should correlate to times when the plant was not treating water, or for maintenance of the analyzer; this is being met.

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

Subsections 7-2 (3) of Schedule 7, O.Reg.170/03 requires the Owner and Operating Authority (OA) of a large municipal residential system that provides secondary disinfection to ensure that at least seven distribution system samples are taken each week and tested immediately for free

Treatment Process Monitoring

chlorine residual. Where secondary disinfection monitoring is not being done on a daily basis, Subsection 7- 2(4) of Schedule 7. O.Reg.170/03 requires that at least four of the seven required tests be taken on one day of the week at least 48 hours after the last samples were taken the week previous, while the remaining three tests are required to be collected within the same week and at least 48 hours after the initial four. Records provided by the OA and reviewed during the inspection indicate that the OA complied with these requirements, typically testing free chlorine residual for secondary disinfection monitoring purposes from 2 locations 7 days a week.

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

A certified operator must examine all test results generated by continuous monitoring equipment within 72 hours of their generation; this is being met. The OA reviews the SCADA reports daily, they also sign, date and document any findings. The OA is reminded that operators need to consistently document the details of departures from normal operating procedures that occurred during the shift, the time/duration they occurred, abnormal and unusual observations and related conclusions as per O.Reg. 128 /04 .

- **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 Wiarton water treatment plant is equipped with continuous analyzers and alarms for free chlorine and turbidity. The alarm set points for the clearwell Water chlorine analyzer is Low 0.75 mg/L and Low, Low 0.70 mg/L; when reached the system locks out ensuring the system meets their CT requirements. The turbidity set points on the two filter trains is High 0.30 NTU and High, High 0.8 NTU at which time the plant shuts down. In both instances the alarms are sent to the OA notifying of the plant shutdown.

- **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 by the operator which are recorded in plant logs and daily SCADA reports. The OA has yearly calibrations conducted by an outside source company and they also calibrate their analyzers on a monthly basis in house.

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.**

As per Condition 16, Schedule B of the Licence # 094-102 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.

It's noted on March 15, 2018 a new municipal drinking water licence (MDWL) and Permit (DWWP) were issued. For compliance purposes during this report compliance was assessed with the MDWL and DWWP issued March 19

Operations Manuals

,2015 . The OA should review both documents paying particular attention to the changes in Schedule E of MDWL and make the necessary changes to the operations manuals and SOP's prior to the commencement of next years annual inspection.

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.**

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 Wiarton drinking water system.
- **Operators in charge had been designated for all subsystems which comprised the drinking-water system.**
- **All operators possessed the required certification.**
- **Only certified operators made adjustments to the treatment equipment.**
Records provided for review indicate that the OA 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.**
The owner of a large municipal residential drinking water system shall ensure that if the system serves a population of 100,000 or less, at least 8 distribution samples plus one for every thousand people served by the system are taken every month. At least one of the samples must be taken each week. These samples are required to be tested for E.Coli. and total coliform; and at least 25 percent of the samples are required to be tested for general bacteria populations expressed as colony counts on a heterotrophic plate count. A review of the data provided by the OA indicates that the OA is routinely collecting three 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.**
Treated water samples are collected weekly and analysed for E. coli, total coliforms and HPC.
- **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 Wiarton 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

Water Quality Monitoring

23; this requirement has been met. The most recent samples were collected on January 9, 2018 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 Wiarton 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, 2018 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, April 3, 2017, July 4, 2017, October 2, 2017 and January 8, 2018. The running annual average of samples collected in 2017 was 14.82 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 on 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 April 3, 2017, July 4, 2017, October 2, 2017 and January 8, 2018. 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 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

Water Quality Monitoring

on April 3, 2017, July 4, 2017, October 2, 2017 and January 8, 2018. 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 8, 2018 with a result of 7.41 mg/L.

- **The required daily samples were being taken at the end of the fluoridation process.**

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 8, 2018 and achieved a result of 0.07 mg/L.

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

Other Inspection Findings

- **The following issues were also noted during the inspection:**

The OA procedure for filter performance report meets legislative requirements, however it is tedious and time consuming and has a greater chance of operator error. The current review procedure consist of the operator providing a daily review of the proceeding 24 hrs of filtered effluent trending. Documenting any turbidity greater than 0.30 NTU, time, number of occurrences and duration of occurrences to ensure performance criterion for filtered water turbidity is less than or equal to 0.3 NTU in 95% of the measurements each month for each filter.

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.

1. The following issues were also noted during the inspection:

The OA procedure for filter performance report meets legislative requirements, however it is tedious and time consuming and has a greater chance of operator error. The current review procedure consist of the operator providing a daily review of the proceeding 24 hrs of filtered effluent trending. Documenting any turbidity greater than 0.30 NTU, time, number of occurrences and duration of occurrences to ensure performance criterion for filtered water turbidity is less than or equal to 0.3 NTU in 95% of the measurements each month for each filter.

Recommendation:

It's recommended the OA hire a SCADA technician to design a daily and monthly filter performance. The report should be captured on the daily and monthly SCADA reports for ease of review for the OA.

SIGNATURES

Inspected By:

Shayne Finlay

Signature: (Provincial Officer)

Reviewed & Approved By:

John Ritchie

Signature: (Supervisor)

Review & Approval Date: 12/04/2018

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.



Ontario

**Ministry of the Environment and Climate Change
Drinking Water Inspection Report**

APPENDIX A

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

ontario.ca/drinkingwater

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 Trihalomethanes 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

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Ontario

**Ministry of the Environment and Climate Change
Drinking Water Inspection Report**

APPENDIX B

INSPECTION SUMMARY RATING RECORD

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

DWS Name:	WIARTON DRINKING WATER SYSTEM
DWS Number:	220002681
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: February 6, 2018
Ministry Office: Owen Sound District Office

Maximum Question Rating: 494

Inspection Module	Non-Compliance Rating
Capacity Assessment	0 / 30
Treatment Processes	0 / 81
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 / 494

Inspection Risk Rating	0.00%
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FINAL INSPECTION RATING:	100.00%
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Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2017-2018)

DWS Name: WIARTON DRINKING WATER SYSTEM
DWS Number: 220002681
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: February 6, 2018
Ministry Office: Owen Sound District Office

Maximum Question Rating: 494

Inspection Risk Rating | 0.00%

FINAL INSPECTION RATING: | 100.00%