Ministry of the Environment, Conservation & Parks

Owen Sound District Office

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

Bureau de district d'Owen Sound

101 17ème rue Est, 3e étage
Owen Sound ON N4K 0A5
Tél. : 519-371-2901
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January 21, 2020

Sent by Email: brad.mcroberts@southbrucepeninsula.com

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

Attention: Brad McRoberts, CAO

Dear Mr. McRoberts:

Re: 2019/2020 Inspection Report 1-KVMU5 Foreman Drinking Water System
Municipal Drinking Water Licence Number 094-104, Issue Number 3
Drinking Water Works Permit Number 094-204, Issue Number 3

The enclosed report documents findings of the inspection that was performed on January 7, 2020. 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 (https://www.ontario.ca/page/taking-care-your-drinking-water-guidemembers-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,

Bob Graham
Water Compliance Inspector
Ministry of the Environment, Conservation and Parks
Phone: 519-374-0216 e-mail: Robert.g.graham@ontario.ca

Enclosure

ec: Carl Seider, Project Manager, Source Water Protection Program
Leo-Paul Frigault, Senior Operations Manager, OCWA
Megan Edney, 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 (2019)

Ontario

Ministry of the Environment, Conservation and Parks

FOREMAN DRINKING WATER SYSTEM

Inspection Report

Site Number:	220007711
Inspection Number:	1-KVMU5
Date of Inspection:	Jan 07, 2020
Inspected By:	Robert Graham

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:	FOREMAN DRINKING WATER SYSTEM
Site Address:	50 FOREMAN Drive ALLENFORD ON N0H 1A0
County/District:	THE SOUTH BRUCE PENINSULA
MECP 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:	Small Municipal Residential
Site Number:	220007711
Inspection Type:	Unannounced
Inspection Number:	1-KVMU5
Date of Inspection:	Jan 07, 2020
Date of Previous Inspection:	Jul 17, 2018

COMPONENTS DESCRIPTION

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

Site (Name):	Distribution System

Type: Other **Sub Type:** Other
Comments:
The distribution system was constructed in 1973 and is located along the north-east side of Chesley Lake in the Town of South Bruce Peninsula (formerly Township of Amabel). Flush lines and sampling taps are found at both ends of the distribution line. There are 17 residential service connections served by the Foreman drinking water system. The majority of residents are seasonal.

Site (Name): Pumphouse
Type: Treated Water POE **Sub Type:** Pumphouse
Comments:
Treatment for the Foreman drinking water system includes: iron and manganese removal (potassium permanganate with greensand filtration), cartridge filtration (1 micron), UV disinfection and chlorination (sodium hypochlorite).
As per CT calculation supplied by the OA dated 10/24/2011.
According to the Procedure for Disinfecting Drinking Water in Ontario for a 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 =86 m3
Auto shutdown of Highlift pump = 60%
Baffle ratio = 0.1
Flow rate = 1.9 L/sec. (0.114 m3/min)
Effective Contact time = (86 x 0.6 x 0.1) / 0.114
Effective Contact Time = 5.16 / 0.114 = 45.26 min
CT (required) = Disinfection Residual Concentration (mg/L) x Effective contact time (min)
Thus 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 / 45.26 = 0.177
A minimum Free Chlorine Concentration of 0.18 mg/L is required to meet primary disinfection with a minimum clearwell volume of 51.6 m3 (60%).

Site (Name): Well
Type: Source **Sub Type:** GUDI
Comments:
The well serving the Foreman drinking water system is drilled to a depth of 73 metres and has a 125 mm diameter casing. The well pump is a submersible pump with a nominal rating of 1.9 L/s at a TDH (total dynamic head) of 92 metres. It is operated in a pressure range of 40 - 60 PSI and has a 50 mm diameter discharge line. The well is supplied by a source that is considered GUDI.

INSPECTION SUMMARY:

Introduction

- **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 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 January 7, 2020, Ministry of the Environment, Conservation and Parks (MECP) Provincial Officer Bob Graham conducted an unannounced focused inspection of the Foreman Drinking Water System (DWS). The Foreman DWS is 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, James Learn, OCWA Overall Responsible Operator (ORO), Megan Edney, OCWA Process & Compliance Technician and OCWA Operator Daniel Caesar.
  During the inspection review period, from July 18, 2018 to the date of inspection, January 7, 2020, there were no Adverse Water Quality Incidents (AWQIs) reported to the MECP Spills Action Centre.
  The Foreman DWS operates under Municipal Drinking Water Licence Number 094-104, Issue Number 3 (MDWL) and Drinking Water Works Permit Number 094-204, Issue Number 3 (DWWP), dated January 12, 2018.

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.**

  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.

- **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.**

- **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.

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 identify that the Huron Woods DWS was operated to achieve the necessary CT requirements and UV performance criteria for primary disinfection during the inspection time period.
  Details concerning the CT calculation provided by OCWA, dated October 24, 2011, can be found in the DWS Components Description section of the inspection 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 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, the lowest reported free chlorine residual in the distribution system was 0.46 mg/L, exceeding the minimum secondary disinfection chlorine residual limit of 0.05 mg/L for treatment equipment which provides chlorination.

- **Where an activity has occurred that could introduce contamination, all parts of the drinking water system were disinfected in accordance with Schedule B, Condition 2.3 of the Drinking Water Works Permit.**

- **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 and chlorination as primary disinfection. Both types of primary treatment have alarms and lockouts. All alarms or lockouts are documented on the Supervisory Control and Data Acquisition system (SCADA) and in logbooks. When critical alarm values have been triggered well pumps are shut down so improperly disinfected water is not directed into the clear well.

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.**

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

Treatment Process Monitoring

For small 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 DWS has two (2) Meyers iron and manganese filters which are continuously regenerated with Potassium Permanganate (one duty and one standby), one (1) cartridge filter housing, pretreatment for the ultraviolet disinfection system, with 1 micron cartridge filters (exceeding the DWWP 5 micron requirement). Continuous monitoring of turbidity is measured via one analyzer located downstream of the cartridge filters and UV units.

- **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.

- **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.

- **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, 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 locks out the DWS 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, locks out the filters ceasing water production and prevents 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.**

- **The owner and operating authority ensured that the primary disinfection equipment had a recording device that continuously recorded the performance of the disinfection equipment.**

- **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 on May 13, 2019.

- **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.

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.**

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.**

  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.

Certification and Training

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

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

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

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

  During the inspection review period OCWA operators working in the Foreman DWS included:

  ORO James Learn: Class 3 Water Treatment Subsystem, Class 2 Water Distribution Subsystem and Water Quality Analyst Certificate.

  Back-up ORO Greg McCorquodale: Class 3 Water Treatment Subsystem, Class 2 Water Distribution and Supply Subsystem.

  Back-up ORO Andrew Bellamy: Class 4 Water Treatment Subsystem, Class 3 Water Distribution and Supply Subsystem.

  Benjamin Madill: Class 2 Water Treatment Subsystem, Class 2 Water Distribution and Supply Subsystem.

  Daniel P. Caesar: Class 1 Water Treatment Subsystem, Class 2 Water Distribution and Supply Subsystem.

  Justin D. Porter: Class 1 Water Treatment Subsystem Class 1 Water Distribution and Supply Subsystem.

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

Water Quality Monitoring

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

  For SMR 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.

- **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 10, 2016 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 inorganic 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 10, 2016 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 (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 came into effect on January 1, 2020. It will be expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly HAAs results for a DWS. HAAs will generally form at the beginning of the distribution system. Sampling for the inspection period occurred on October 1, 2018 (5.3 ug/L), January 8, 2019 (5.3 ug/L), April 1, 2019 (5.3 ug/L), July 8, 2019 (5.3 ug/L) and October 7, 2019 (5.3 ug/L). 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.

- **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 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 1, 2018 (8.5 ug/L), January 8, 2019 (7.0 ug/L), April 1, 2019 (7.1 ug/L), July 8, 2019 (8.1 ug/L) and October 7, 2019 (7.1 ug/L). The inspection review period RAA concentration for THMs in the Foreman DWS is 7.56 ug/L. The Ontario Drinking Water Quality Standard is a RAA concentration of 100 ug/L.

- **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. OCWA staff complied with these requirements when they conducted the required monitoring on October 1, 2018, January 8, 2019, April 1, 2018, July 8, 2019 and October 7, 2019. 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 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.

- **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.

- **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 Suspended Solids discharged from the holding tank shall not exceed 25 mg/L .
  Table 7 identifies that Backwash Wastewater Suspended Solids shall be comprised of manual composite samples (reference MDWL Section 4.3 for details) taken quarterly at the point of discharge from the filter backwash tank.
  During the inspection review period this requirement has been met.
  The annual average concentration of Backwash Wastewater Suspended Solids during the inspection time period was 2.0 mg/L.

- **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:

Robert Graham

Signature: (Provincial Officer)

Reviewed & Approved By:

Mark Smith

Signature: (Supervisor)

Digitally signed by Mark Smith
DN: cn=Mark Smith, o=MECP, ou=Water Compliance Unit, email=mark.smith@ontario.ca, c=CA
Date: 2020.01.21 15:58:22 -05'00'

Review & Approval Date:

January 21, 2020

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, Conservation and Parks
Drinking Water Inspection Report

APPENDIX A

INSPECTION SUMMARY RATING RECORD

Ministry of the Environment - Inspection Summary Rating Record (Reporting Year - 2019-2020)

DWS Name:	FOREMAN DRINKING WATER SYSTEM
DWS Number:	220007711
DWS Owner:	South Bruce Peninsula, The Corporation Of The Town Of
Municipal Location:	The South Bruce Peninsula
Regulation:	O.REG 170/03
Category:	Small Municipal Residential System
Type Of Inspection:	Focused
Inspection Date:	January 7, 2020
Ministry Office:	Owen Sound District Office

Maximum Question Rating: 510

Inspection Module	Non-Compliance Rating
Source	0 / 14
Capacity Assessment	0 / 30
Treatment Processes	0 / 98
Operations Manuals	0 / 28
Logbooks	0 / 14
Certification and Training	0 / 42
Water Quality Monitoring	0 / 91
Reporting & Corrective Actions	0 / 42
Treatment Process Monitoring	0 / 151
TOTAL	**0 / 510**

Inspection Risk Rating	**0.00%**

FINAL INSPECTION RATING:	**100.00%**

Inspection Rating Record Generated On 17-JAN-20 (Inspection ID: 1-KVMU5).

Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2019-2020)

DWS Name:	FOREMAN DRINKING WATER SYSTEM
DWS Number:	220007711
DWS Owner:	South Bruce Peninsula, The Corporation Of The Town Of
Municipal Location:	The South Bruce Peninsula
Regulation:	O.REG 170/03
Category:	Small Municipal Residential System
Type Of Inspection:	Focused
Inspection Date:	January 7, 2020
Ministry Office:	Owen Sound District Office

Maximum Question Rating: 510

Inspection Risk Rating	**0.00%**

FINAL INSPECTION RATING:	**100.00%**

Inspection Rating Record Generated On 17-JAN-20 (Inspection ID: 1-KVMU5).

Ontario

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.

For more information on Ontario's drinking water visit www.ontario.ca/drinkingwater

PUBLICATION TITLE	PUBLICATION NUMBER
FORMS: 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

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 ministère au 1-866-793-2588, ou encore à 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

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Renseignements sur le profil du réseau d'eau potable Avis de demande de services de laboratoire Avis de résultats d'analyse insatisfaisants et de règlement des problèmes	012-2149F 012-2148F 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 portable en Ontario	Site Web
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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
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Liste des personnes-ressources du réseau d'eau potable	Site Web
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