

Ministry of the Environment,
Conservation and Parks
Drinking Water and Environmental
Compliance Division
West Central Region
Guelph District Office

1 Stone Road West
4th Floor
Guelph, Ontario N1G 4Y2
Tel.: 519 826-4255
Fax: 519 826-4286

Ministère de l'Environnement de la
Protection de la nature et des Parcs
Division de la conformité en matière
d'eau potable et d'environnement
Direction régionale du Centre-Ouest
Bureau de district de Guelph

1, chemin Stone ouest
4^e étage
Guelph (Ontario) N1G 4Y2
Tél.: 519 826-4255
Télééc: 519 826-4286



November 30th, 2021

Mr. Mathew Aston
Director of Public Works
The Township of Wellington North
PO Box 125
7490 Sideroad 7W
Kenilworth, Ontario
N0G 2E0

Dear Mr. Aston,

SUBJECT : 2021 MECP Inspection Report – Mt. Forest Well Supply (DWS # 220000068)

Please find enclosed the Ministry of the Environment, Conservation and Parks ('MECP' or the 'Ministry') Inspection Report for the inspection of the Mount Forest WS, which was recently conducted.

The primary focus of this inspection was to confirm compliance with MECP legislation and control documents, as well as conformance with Ministry drinking water related policies for the inspection period. The Ministry is implementing a rigorous and comprehensive approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as water system management practices.

In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation & Enforcement (II&E) Secretariat and advice of internal and risk experts. The Inspection Summary Rating Record (IRR) provides the Ministry, the system owner and the local Public Health Unit with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance. IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspector's Annual Report. Please note that due to a change in IT systems, the IRR cannot be generated at the same time as the inspection report. The IRR will be sent separately and prior to any public release; typically, within 1 -2 months of the completion of the inspection.

2021 Mt. Forest WS Inspection Report
Page 2.

Section 19 of the Safe Drinking Water Act (Standard of Care) creates a number of obligations for individuals who exercise decision-making authority over municipal drinking water systems. Please be aware that the Ministry has encouraged such individuals, particularly municipal councillors, to take steps to be better informed about the drinking water systems over which they have decision-making authority.

These steps could include asking for a copy of this inspection report and a review of its findings. Further information about Section 19 can be found in "Taking Care of Your Drinking Water: A guide for members of municipal council" found on the Drinking Water Ontario website at:

<https://www.ontario.ca/page/taking-care-your-drinking-water-guide-members-municipal-councils>

If you have any questions regarding any other aspects of this report, please feel free to contact myself or the Drinking Water Supervisor (Lisa Williamson) at this office at (519) 546-9301.

Thankyou.

Yours truly,

A handwritten signature in black ink, appearing to read 'Rick Neubrand', written in a cursive style.

Rick Neubrand
Senior Environmental Officer / Inspector
Ministry of the Environment, Conservation and Parks
Drinking Water and Environmental Compliance Division
Guelph District Office

Encl: Reports (1)

CC : Martin Keller – GRCA
: Jagjit Singh-Bajwa - WDGHU
: Sara McDougall – TWN
: Corey Schmidt - TWN



MOUNT FOREST DRINKING WATER SYSTEM
393 PARKSIDE DR, WELLINGTON NORTH, ON, N0G 2L3

Inspection Report

System Number: 220000068
Inspection Start Date: 10/19/2021
Inspection End Date: 11/30/2021
Inspected By: Rick Neubrand
Badge #: 773

(signature)

NON-COMPLIANCE/NON-CONFORMANCE ITEMS

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

Question Group: Other Inspection Findings

Question ID	MRDW1116000	
Question	Question Type	Legislative Requirement
Were the inspection questions sufficient to address other identified best practice issues?	BMP	Not Applicable
Observation/Corrective Action(s)		
<p>The following issues were also noted during the inspection:</p> <p>1.) Although improved from the last inspection, it was still noted that some logbook entries were hard to read. It is recommended that greater care continued to be taken when making entries in logbooks, in order to ensure legibility and due diligence is attained.</p>		

INSPECTION DETAILS

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

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

Question ID	MRDW1001000	
Question	Question Type	Legislative Requirement
What was the scope of this inspection?	Information	Not Applicable
Observation		
<p>The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks (MECP) legislation as well as evaluating conformance with ministry drinking water policies and guidelines during the inspection period. The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as management practices.</p> <p>This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O.Reg. 170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.</p> <p>This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements. This inspection is an assessment of the Mount Forest drinking water system (DWS).</p> <p>The Town of Mount Forest is a small rural community with a population of approximately 4600. It is located approximately 58 km north of the City of Guelph, and 77 km northwest of the City of Brampton.</p> <p>The drinking water system for the Town of Mount Forest is comprised of four wells, four pumphouses, one booster pumping station (within the Well 3 pumphouse (PH)) and one water tower. Treatment consists of chlorination for disinfection .</p> <p>The review period for this inspection is from September 29, 2020 to October 27, 2021.</p> <p>This DWS is classified under O. Regulation 170/03 (Reg 170) as a Large Municipal Residential (LMR) DWS.</p>		

Question ID	MRDW1000000	
Question	Question Type	Legislative Requirement
Does this drinking water system provide primary	Information	Not Applicable

disinfection?		
Observation		
This Drinking Water System provides for both primary and secondary disinfection and distribution of water. Primary disinfection occurs in 4 pumphouses in the DWS and consists of chlorination utilizing sodium hypochlorite.		

Question ID	MRDW1007000	
Question	Question Type	Legislative Requirement
Is the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials?	Legislative	SDWA O. Reg. 170/03 1-2 (1)
Observation		
<p>The owner was maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials. All wells are located within pumphouses having concrete around the wellhead, so are protected from external elements.</p> <p>The original water well records (WWR) for Well 3 (WWR #6701749), Well 4 (WWR #6701750), Well 5 (WWR #6703148), and Well 6 (WWR #6706988), did not include information on annular seals. Records for modifications made to Well 3 in 2005 show that the bottom of the well was sealed with 'benseal' and cement from 73.8 m to 123 m. WWR #2515102 shows partial abandonment of Well 5, with pea stones and hole plug from 140 ft to 394 ft. Raw water sample results do not indicate the influence of surface water for any of the production wells.</p> <p>Sections 16.2.8 - 16.2.9 of Schedule B in the MDWL requires that an inspection schedule for all wells associated with the drinking water system be included in the operations and maintenance manual. There must be inspection and maintenance procedures for the entire well structure of each well including all above and below grade components, and remedial action plans for situations where an inspection indicates non-compliance with respect to regulatory requirements and/or risk to raw well water quality.</p> <p>The Township of Wellington North (TWN) has established a well inspection program that includes inspections of the production wells on an annual basis. A detailed assessment of the wells, including below grade components, is to be scheduled approximately every 10 years, if feasible. Below grade assessments were last completed for Wells 3, 4, 5, and 6 in 2016, 2012, 2018, and 2011, respectively.</p>		

Question ID	MRDW1008000	
Question	Question Type	Legislative Requirement
If there are municipal wells not being used as a raw water supply, is the owner maintaining the wells in a manner to prevent the entry of surface water and other foreign materials?	Legislative	OWRA R.R.O. 1990, Reg. 903 21 (3)
Observation		

The owner was maintaining the municipal wells not being used as a raw water supply in a manner to prevent the entry of surface water and other foreign materials. Several monitoring wells were located within a close proximities to the Well 5 pumphouse. These were found to be locked, and appeared to be maintained properly with no surficial evidence of erosion.

Question ID	MRDW1009000	
Question	Question Type	Legislative Requirement
Are measures in place to protect the groundwater and/or GUDI source in accordance with any MDWL and DWWP issued under Part V of the SDWA?	Legislative	SDWA 31 (1)
Observation		
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.		

Question ID	MRDW1010000	
Question	Question Type	Legislative Requirement
Are trends in source water quality being monitored?	BMP	Not Applicable
Observation		
Trends in source water quality were being monitored. As part of the Municipal Drinking Water Licence renewal, a Raw Water Assessment report was completed, dated February 24, 2020, which summarizes water quality data from 2015 to 2019. No significant trends in water quality parameters were noted and raw water quality results continue to be characteristic of true 'groundwater' sources.		

Question ID	MRDW1014000	
Question	Question Type	Legislative Requirement
Is there sufficient monitoring of flow as required by the MDWL or DWWP issued under Part V of the SDWA?	Legislative	SDWA 31 (1)
Observation		
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. Each well is equipped with one flow meter, which serves to measure both the raw and treated water volumes, since the treatment system is simple and water basically flows directly from the wells through to the contact mains.		

Question ID	MRDW1015000	
Question	Question Type	Legislative Requirement
Are the flow measuring devices calibrated or verified in accordance with the requirements of the MDWL issued	Legislative	SDWA 31 (1)

under Part V of the SDWA?		
Observation		
The flow measuring devices were calibrated or verified in accordance with the requirements of the MDWL issued under Part V of the SWDA. Flow meters for wells 3, 4 and 6 were last calibrated on February 9, 2021, within one year of the previous calibrations. The flow meter for well 5 was replaced on February 12, 2021 and was calibrated on site. All calibrations were done by an external company versed in such.		

Question ID	MRDW1016000	
Question	Question Type	Legislative Requirement
Is the owner in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the MDWL issued under Part V of the SDWA?	Legislative	SDWA 31 (1)
Observation		
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. Schedule C, Section 1.0 of the MDWL lists the following rated capacities for the wells in the Mount Forest DWS: Wellhouse 3 - 1,637 m ³ /day Wellhouse 4 - 1,964 m ³ /day Wellhouse 5 - 3,928 m ³ /day Wellhouse 6 - 3,928 m ³ /day Records provided indicate these rated capacities were not exceeded during the inspection review period, except during momentary periods of routine maintenance, water main breaks or fire control.		

Question ID	MRDW1017000	
Question	Question Type	Legislative Requirement
Were appropriate records of flows and any capacity exceedances made in accordance with the MDWL issued under Part V of the SDWA?	Legislative	SDWA 31 (1)
Observation		
Appropriate records of flows and any capacity exceedances were made in accordance with the Municipal Drinking Water Licence issued under Part V of the SDWA.		

Question ID	MRDW1013000	
Question	Question Type	Legislative Requirement
Is the owner in compliance with all conditions of the PTTW?	Legislative	OWRA 34 (3)
Observation		
The owner was in compliance with all conditions of the PTTW.		

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Question ID MRDW1030000		
Question	Question Type	Legislative Requirement
Is primary disinfection chlorine monitoring being conducted at a location approved by MDWL and/or DWWP issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved?	Legislative	SDWA O. Reg. 170/03 7-2 (1), SDWA O. Reg. 170/03 7-2 (2)
Observation		
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. All chlorination injection points are in the main piping header before water gets directed to the contact chambers outside the pumphouses. Free chlorine residuals are monitored at each of the pumphouses by two continuous analyzers. The first being at the inlet of the contact main (‘pre’-chlorination continuous analyzer) and the second at the outlet of the contact main (‘post’ chlorination continuous analyzer). The post chlorine analyzers are considered as the ones for regulatory assessment purposes.		

Question ID MRDW1038000		
Question	Question Type	Legislative Requirement
Is continuous monitoring equipment that is being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format?	Legislative	SDWA O. Reg. 170/03 6-5 (1) 1-4
Observation		
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. In reviewing SCADA data, the owner provided backup data from on-site historians for any omissions from broadcast channel data as well. Data is recorded at both 1min and 5 min intervals.		

Question ID MRDW1036000		
Question	Question Type	Legislative Requirement
Where continuous monitoring equipment is not used for chlorine residual analysis, are samples tested using an acceptable portable device?	Legislative	SDWA O. Reg. 170/03 6-7 (1)
Observation		
Samples for chlorine residual analysis were tested using an acceptable portable device. Site uses continuous analyzers for primary disinfection monitoring and uses portable colourimeters when doing distribution sampling or when checking accuracy of continuous analyzers.		

Question ID	MRDW1037000	
Question	Question Type	Legislative Requirement
Are all continuous monitoring equipment utilized for sampling and testing required by O. Reg.170/03, or MDWL or DWWP or order, equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6?	Legislative	SDWA O. Reg. 170/03 6-5 (1) 1-4,SDWA O. Reg. 170/03 6-5 (1)5-10,SDWA O. Reg. 170/03 6-5 (1.1)
Observation		
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. Low chlorine residual alarms are programmed for both pre-contact piping and post-chlorine contact piping to alert the operator if the chlorine residual level drops. If the pre or post-contact piping chlorine residual drops below 0.65 mg/L, a remote alarm will occur and the well pumps are programmed to lock out.		

Question ID	MRDW1035000	
Question	Question Type	Legislative Requirement
Are operators examining continuous monitoring test results and are they examining the results within 72 hours of the test?	Legislative	SDWA O. Reg. 170/03 6-5 (1) 1-4,SDWA O. Reg. 170/03 6-5 (1)5-10
Observation		
Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test. Operators check the Supervisory Control and Data Acquisition (SCADA) system daily and write notes in the logbooks. As well, the SCADA system creates a daily printout which the operators check and sign as well. If issues arise, the operators print out trending of the data and label such trending according to logbook notes.		

Question ID	MRDW1040000	
Question	Question Type	Legislative Requirement
Are all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?	Legislative	SDWA O. Reg. 170/03 6-5 (1) 1-4,SDWA O. Reg. 170/03 6-5 (1)5-10
Observation		

All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation. Portable colourimeters are used to calibrate the continuous analyzers. Portable colourimeters are professionally calibrated annually and were last calibrated on February 17, 2021. The online analyzers were last professionally checked on June 3rd, 2021.

Question ID	MRDW1108000	
Question	Question Type	Legislative Requirement
Where continuous monitoring equipment used for the monitoring of free chlorine residual, total chlorine residual, combined chlorine residual or turbidity, required by Regulation 170, an Order, MDWL, or DWWP issued under Part V, SDWA, has triggered an alarm or an automatic shut-off, did a qualified person respond in a timely manner and take appropriate actions?	Legislative	SDWA O. Reg. 170/03 6-5 (1) 1-4, SDWA O. Reg. 170/03 6-5 (1) 5-10, SDWA O. Reg. 170/03 6-5 (1.1)
Observation		
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.		

Question ID	MRDW1033000	
Question	Question Type	Legislative Requirement
Is the secondary disinfectant residual measured as required for the large municipal residential distribution system?	Legislative	SDWA O. Reg. 170/03 7-2 (3), SDWA O. Reg. 170/03 7-2 (4)
Observation		
The secondary disinfectant residual was measured as required for the distribution system. Distribution system free chlorine residuals (FCRs) were measured on a daily basis (grab samples) during the inspection review period.		

Question ID	MRDW1031000	
Question	Question Type	Legislative Requirement
Are operators aware of the operational criteria necessary to achieve primary disinfection within the drinking water system?	BMP	Not Applicable
Observation		
Operators were aware of the operational criteria necessary to achieve primary disinfection within the drinking water system. CT calculation sheets are also posted in each pumphouse.		

Question ID	MRDW1018000	
Question	Question Type	Legislative Requirement
Has the owner ensured that all equipment is installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?	Legislative	SDWA 31 (1)
Observation		
The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit. Some upgrades and equipment changes occurred during this inspection period, but these were recorded on Form 2s as required.		

Question ID	MRDW1020000	
Question	Question Type	Legislative Requirement
Is the owner/operating authority able to demonstrate that, when required during the inspection period, Form 1 documents were prepared in accordance with their Drinking Water Works Permit?	Legislative	SDWA 31 (1)
Observation		
The owner/operating authority was in compliance with the requirement to prepare Form 1 documents as required by their Drinking Water Works Permit during the inspection period. Two Form 1s were prepared for main replacement activities.		

Question ID	MRDW1021000	
Question	Question Type	Legislative Requirement
Is the owner/operating authority able to demonstrate that, when required during the inspection period, Form 2 documents were prepared in accordance with their Drinking Water Works Permit?	Legislative	SDWA 31 (1)
Observation		
The owner/operating authority was in compliance with the requirement to prepare Form 2 documents as required by their Drinking Water Works Permit during the inspection period. Eight Form 2s were prepared for various equipment modification / upgrading activities in the wellhouses.		

Question ID	MRDW1023000	
Question	Question Type	Legislative Requirement
Do records indicate that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a DWWP	Legislative	SDWA O. Reg. 170/03 1-2 (2)

and/or MDWL issued under Part V of the SDWA at all times that water was being supplied to consumers?		
Observation		
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. The Mount Forest DWS obtains water from ground water sources. The treatment system consists of disinfection using chlorine and is capable of achieving an overall performance that provides, at a minimum, 2-log (99%) removal or inactivation of viruses prior to the first consumer. An examination of records indicated that proper treatment appeared to have occurred during the inspection period.		

Question ID	MRDW1024000	
Question	Question Type	Legislative Requirement
Do records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined?	Legislative	SDWA O. Reg. 170/03 1-2 (2)
Observation		
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.		

Question ID	MRDW1025000	
Question	Question Type	Legislative Requirement
Were all parts of the drinking water system that came in contact with drinking water (added, modified, replaced or extended) disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?	Legislative	SDWA 31 (1)
Observation		
All parts of the drinking water system were disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit. Records indicate that township staff disinfect watermains (new installations and repairs) and equipment according to Section 2.3 of Schedule B of their Drinking Water Works Permit (DWWP), the Ontario Watermain Disinfection Procedure (OWDP), and the applicable American Water Works Association (AWWA) standards.		

Question ID	MRDW1027000	
Question	Question Type	Legislative Requirement
Does the owner have evidence indicating that all chemicals	Legislative	SDWA 31 (1)

and materials which come in contact with water within the drinking water system have met all applicable AWWA and ANSI standards in accordance with the DWWP and MDWL issued under Part V of the SDWA?		
Observation		
The owner had evidence indicating that all chemicals and materials that come in contact with water within the drinking water system met the AWWA and ANSI standards in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit issued under Part V of the SDWA.		

Question ID	MRDW1028000	
Question	Question Type	Legislative Requirement
Are up-to-date plans for the drinking water system kept in place, or made available in such a manner, that they may be readily viewed by all persons responsible for all or part of the operation of the drinking water system in accordance with the DWWP and MDWL issued under Part V of the SDWA?	Legislative	SDWA 31 (1)
Observation		
Up-to-date plans for the drinking water system were kept in a place, or made available in such a manner, that they could be readily viewed by all persons responsible for all or part of the operation of the drinking water system in accordance with the DWWP and MDWL issued under Part V of the SDWA. Copies are available for viewing at the Municipal Office, Arthur Water Office (located within the Arthur wastewater treatment plant (WWTP), and at the Mount Forest WWTP.		

Question ID	MRDW1045000	
Question	Question Type	Legislative Requirement
Has the owner updated the document describing the distribution components within 12 months of completion of alterations to the system?	Legislative	SDWA 31 (1)
Observation		
The owner had up-to-date documents describing the distribution components as required. Some updates are still required to be completed but have not elapsed past the 12 month time limit.		

Question ID	MRDW1046000	
Question	Question Type	Legislative Requirement
Is there a backflow prevention program, policy and/or bylaw in place that addresses cross connections and connections to high hazard facilities?	BMP	Not Applicable
Observation		

There is a backflow prevention program, policy and/or bylaw in place. All ICI connections have a backflow preventor installed. The Township hires local plumbers with backflow tester certification to complete the inspections annually. The Township has developed By-Law # 93-16 – Section 10 "Cross Connections and Backflow Prevention" to address backflow prevention.

Question ID	MRDW1047000	
Question	Question Type	Legislative Requirement
Does the owner have a program or maintain a schedule for routine cleanout, inspection and maintenance of reservoirs and elevated storage tanks within the distribution system?	BMP	Not Applicable
Observation		
The owner had a program or maintained a schedule for routine cleanout, inspection and maintenance of reservoirs and elevated storage tanks within the distribution system. The Operational Plan contains a schedule with a goal of every three years for completion of inspection and maintenance of the elevated tanks, with the final schedule being at the discretion of the Manager, Environmental & Development Services. For the purposes of cleaning, inspections and maintenance of elevated storage and other tanks in the TWN are performed on a three-year rotation. The last year the standpipe at Well 3 was cleaned was 2013 and last inspected in 2019.		

Question ID	MRDW1048000	
Question	Question Type	Legislative Requirement
Has the owner implemented a program for the flushing of watermains as per industry standards?	BMP	Not Applicable
Observation		
The owner had implemented a program for the flushing of watermains as per industry standards. The Operational Plan includes a schedule for weekly flushing of dead ends as needed, with a complaint-based determination for the flushing being needed. This schedule has been established due to very few issues with quality or discoloured water within the Mount Forest Drinking Water System.		

Question ID	MRDW1049000	
Question	Question Type	Legislative Requirement
Do records confirm that disinfectant residuals are routinely checked at the extremities and dead ends of the distribution system?	BMP	Not Applicable
Observation		
Records confirmed that disinfectant residuals were routinely checked at the extremities and "dead ends" of the distribution system.		

Question ID	MRDW1050000	
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Question	Question Type	Legislative Requirement
Is there a program in place for inspecting and exercising valves?	BMP	Not Applicable
Observation		
A program was in place for inspecting and exercising valves. Operations staff stated that valves are checked every 3 years.		

Question ID	MRDW1051000		
Question	Question Type	Legislative Requirement	
Is there a program in place for inspecting and operating hydrants?	BMP	Not Applicable	
Observation			
There was a program in place for inspecting and operating hydrants. All hydrants in the Mount Forest system are fire rated and are self draining. Hydrants are inspected every fall and operated annually. Hydrants that are slow to drain are re-checked and pumped out if required.			

Question ID	MRDW1052000		
Question	Question Type	Legislative Requirement	
Is there a by-law or policy in place limiting access to hydrants?	BMP	Not Applicable	
Observation			
There was a by-law or policy in place limiting access to hydrants. Article 11 of By-Law 93-16 addresses restrictions to hydrant access, as well as other areas of the distribution system.			

Question ID	MRDW1053000		
Question	Question Type	Legislative Requirement	
Is the Owner able to maintain proper pressures in the distribution system and is pressure monitored to alert the operator of conditions which may lead to loss of pressure below the value under which the system is designed to operate?	BMP	Not Applicable	
Observation			
The owner was able to maintain proper pressures in the distribution system and pressure was monitored to alert the operator of conditions which may lead to loss of pressure below the value under which the system is designed to operate. In performing the inspection the operator indicated that the average pressure in the distribution system is 50-60 psi.			

Question ID	MRDW1058000		
Question	Question	Legislative	

	Type	Requirement
Do operators and maintenance personnel have ready access to operations and maintenance manuals?	Legislative	SDWA O. Reg. 128/04 28
Observation		
Operators and maintenance personnel had ready access to operations and maintenance manuals. A copy of the Operations Manual (O&M) is kept at the operations office (in the Arthur sewage treatment plant (STP)) and one in each pumphouse in Mount Forest. The newest Drinking Water Licence (DWL) and Drinking Water Works Permit (DWWP) were stated as being placed in each pumphouse O&M. A check in the Well 5 pumphouse during the inspection verified this to have occurred.		

Question ID	MRDW1063000		
Question	Question Type	Legislative Requirement	
For every required operational test and for every required sample, is a record made of the date, time, location, name of the person conducting the test and result of the test?	Legislative	SDWA O. Reg. 170/03 6-10 (1)	
Observation			
For every required operational test and every required sample, a record was made of the date, time, location, name of the person conducting the test and result of the test.			

Question ID	MRDW1064000		
Question	Question Type	Legislative Requirement	
Did the operator-in-charge ensure that records were maintained of all adjustments made to the processes within his or her responsibility?	Legislative	SDWA O. Reg. 128/04 26 (2)	
Observation			
The operator-in-charge ensured that records were maintained of all adjustments made to the processes within his or her responsibility.			

Question ID	MRDW1065000		
Question	Question Type	Legislative Requirement	
Are logs and other record keeping mechanisms available for at least five (5) years?	Legislative	SDWA O. Reg. 128/04 27 (6)	
Observation			
Logs or other record keeping mechanisms were available for at least five (5) years.			

Question ID	MRDW1059000		
Question	Question Type	Legislative Requirement	
Do the operations and maintenance manuals contain plans,	Legislative	SDWA O. Reg.	

drawings and process descriptions sufficient for the safe and efficient operation of the system?		128/04 28
Observation		
The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.		

Question ID	MRDW1060000	
Question	Question Type	Legislative Requirement
Do the operations and maintenance manuals meet the requirements of the DWWP and MDWL issued under Part V of the SDWA?	Legislative	SDWA 31 (1)
Observation		
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.		

Question ID	MRDW1061000	
Question	Question Type	Legislative Requirement
Are logbooks properly maintained and contain the required information?	Legislative	SDWA O. Reg. 128/04 27 (1), SDWA O. Reg. 128/04 27 (2), SDWA O. Reg. 128/04 27 (3), SDWA O. Reg. 128/04 27 (4), SDWA O. Reg. 128/04 27 (5), SDWA O. Reg. 128/04 27 (6), SDWA O. Reg. 128/04 27 (7)
Observation		
Logbooks were properly maintained and contained the required information. A review of operator logbooks found them to contain a good level of detail when reviewed for SCADA occurrences. Some entries were difficult to read so it is reminded that greater care be given when making entries to ensure legibility.		

Question ID	MRDW1062000	
Question	Question Type	Legislative Requirement
Do records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring	Legislative	SDWA O. Reg. 170/03 7-5

equipment is being done by a certified operator, water quality analyst, or person who meets the requirements of O. Reg. 170/03 7-5?		
Observation		
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.		

Question ID	MRDW1066000	
Question	Question Type	Legislative Requirement
Is spill containment provided for process chemicals and standby power generator fuel?	BMP	Not Applicable
Observation		
Spill containment was provided for process chemicals and/or standby power generator fuel. Each chemical day tank at each pumphouse had proper spill containment. The diesel generator tank at the Well 3 pumphouse was stated to be double-walled for spill containment purposes.		

Question ID	MRDW1067000	
Question	Question Type	Legislative Requirement
Are clean-up equipment and materials in place for the clean up of spills?	BMP	Not Applicable
Observation		
Clean-up equipment and materials were in place for the clean up of spills.		

Question ID	MRDW1068000	
Question	Question Type	Legislative Requirement
If available, are standby power generators tested under normal load conditions?	BMP	Not Applicable
Observation		
Standby power generators were tested under normal load conditions. The backup generator at wellhouse 3 is tested monthly.		

Question ID	MRDW1069000	
Question	Question Type	Legislative Requirement
Are all storage facilities completely covered and secure?	BMP	Not Applicable
Observation		
All storage facilities were completely covered and secure.		

Question ID	MRDW1070000	
Question	Question Type	Legislative Requirement
Are air vents and overflows associated with reservoirs and elevated storage structures equipped with screens?	BMP	Not Applicable
Observation		
Air vents and overflows associated with reservoirs and elevated storage structures were equipped with screens. Air vent screening was confirmed via the 2019 Landmark standpipe inspection performed by Landmark Municipal Services. Discussions with the Chief Operator advised that the vents were checked and deemed to be screened during the 2019 inspection as well. Pictures were supplied of the vent (from the 2019 inspection) that showed the presence of coarse screening on one side of the vent and fine mesh screening on the other.		

Question ID	MRDW1071000	
Question	Question Type	Legislative Requirement
Has the owner provided security measures to protect components of the drinking water system?	BMP	Not Applicable
Observation		
The owner had provided security measures to protect components of the drinking water system. Pumphouses are well lit and have remote notification security systems in place. Some are protected within fenced in compounds. All pumphouses also have updated Supervisory Control and Data Acquisition (SCADA) systems in place which also provide remote notifications of any process upsets.		

Question ID	MRDW1072000	
Question	Question Type	Legislative Requirement
Has the owner and/or operating authority undertaken efforts to promote water conservation and reduce water losses in their system?	BMP	Not Applicable
Observation		
The owner and/or operating authority undertook efforts to promote water conservation and reduce water losses in their system. Water leak detection work is conducted every three years, as well as reactive responses to any identified issues within the distribution system. By-law 93-16 Schedule 1, Section 12.1 places restrictions on the use of outdoor water.		

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

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Question ID	MRDW1074000		
Question	Question Type	Legislative Requirement	
Have operators in charge been designated for all subsystems for which comprise the drinking water system?	Legislative	SDWA O. Reg. 128/04 25 (1)	
Observation			
Operators-in-charge had been designated for all subsystems which comprised the drinking water system.			

Question ID	MRDW1075000		
Question	Question Type	Legislative Requirement	
Do all operators possess the required certification?	Legislative	SDWA O. Reg. 128/04 22	
Observation			
All operators possessed the required certification.			

Question ID	MRDW1076000		
Question	Question Type	Legislative Requirement	
Do only certified operators make adjustments to the treatment equipment?	Legislative	SDWA O. Reg. 170/03 1-2 (2)	
Observation			
Only certified operators made adjustments to the treatment equipment.			

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

Question ID	MRDW1079000		
Question	Question Type	Legislative Requirement	

Are all microbiological water quality monitoring requirements for raw water samples prescribed by legislation being met?	Legislative	SDWA O. Reg. 170/03 10-4 (1),SDWA O. Reg. 170/03 10-4 (2),SDWA O. Reg. 170/03 10-4 (3)
Observation		
All microbiological water quality monitoring requirements for raw water samples were being met. Section 10-4 (1) of O.Regulation 170/03 (Reg 170) requires that the owner of a drinking water system and the operating authority for the system shall ensure that a water sample is taken at least once every week from the drinking water system's raw water, before any treatment is applied to the water. This has occurred at this drinking water system (DWS).		

Question ID	MRDW1081000	
Question	Question Type	Legislative Requirement
Are all microbiological water quality monitoring requirements for distribution samples being met?	Legislative	SDWA O. Reg. 170/03 10-2 (1),SDWA O. Reg. 170/03 10-2 (2),SDWA O. Reg. 170/03 10-2 (3)
Observation		
All microbiological water quality monitoring requirements for distribution samples were being met. Schedule 10 of Reg 170 requires this site to be taking at least 12 distribution samples per month. The owner was averaging 16 - 20 samples per month.		

Question ID	MRDW1083000	
Question	Question Type	Legislative Requirement
Are all microbiological water quality monitoring requirements for treated samples being met?	Legislative	SDWA O. Reg. 170/03 10-3
Observation		
All microbiological water quality monitoring requirements for treated samples were being met. Schedule 10 of Reg 170 requires this site to be taking four treated water samples per week (one from each pumphouse). The owner was performing this sampling.		

Question ID	MRDW1084000	
Question	Question Type	Legislative Requirement
Are all inorganic water quality monitoring requirements prescribed by legislation conducted within the required	Legislative	SDWA O. Reg. 170/03 13-2

frequency?		
Observation		
All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Inorganic parameters were last sampled for on January 11, 2016 and January 14, 2019 at all 4 pumphouses. No exceedances were noted. Inorganic parameters are required to be tested once every 36 months.		

Question ID	MRDW1085000	
Question	Question Type	Legislative Requirement
Are all organic water quality monitoring requirements prescribed by legislation conducted within the required frequency?	Legislative	SDWA O. Reg. 170/03 13-4 (1),SDWA O. Reg. 170/03 13-4 (2),SDWA O. Reg. 170/03 13-4 (3)
Observation		
All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Organic parameters were last sampled for on January 11, 2016 and January 14, 2019 at all 4 pumphouses. No exceedances were noted. Organic parameters are required to be tested once every 36 months.		

Question ID	MRDW1086000	
Question	Question Type	Legislative Requirement
Are all haloacetic acid water quality monitoring requirements prescribed by legislation conducted within the required frequency and at the required location?	Legislative	SDWA O. Reg. 170/03 13-6.1 (1),SDWA O. Reg. 170/03 13-6.1 (2),SDWA O. Reg. 170/03 13-6.1 (3), SDWA O. Reg. 170/03 13-6.1 (4),SDWA O. Reg. 170/03 13-6.1 (5),SDWA O. Reg. 170/03 13-6.1 (6)
Observation		
All haloacetic acid water quality monitoring requirements prescribed by legislation are being conducted within the required frequency and at the required location. HAAs were sampled last in the distribution system on the following dates: - Aug 17, 2020		

- Nov 9, 2020
- Feb 18, 2021
- May 10, 2021
- and
- Aug 16, 2021

All samples were found to be at 5.3 ug/L again, same as the last inspection.

HAAAs are required to be sampled every calendar quarter.

Question ID	MRDW1087000	
Question	Question Type	Legislative Requirement
Have all trihalomethane water quality monitoring requirements prescribed by legislation been conducted within the required frequency and at the required location?	Legislative	SDWA O. Reg. 170/03 13-6 (1)
Observation		
<p>All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location. THMs were sampled last in the distribution system on the following dates:</p> <ul style="list-style-type: none"> - Aug 17, 2020 - Nov 9, 2020 - Feb 18, 2021 - May 10, 2021 and - Aug 16, 2021 <p>The Annual Running Average was 20.25 ug/L.</p> <p>THMs are required to be sampled every three months.</p>		

Question ID	MRDW1088000	
Question	Question Type	Legislative Requirement
Are all nitrate/nitrite water quality monitoring requirements prescribed by legislation conducted within the required frequency for the DWS?	Legislative	SDWA O. Reg. 170/03 13-7
Observation		
<p>All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency for the DWS. Nitrates / nitrites were sampled last at the treated water entry points on the following dates:</p> <ul style="list-style-type: none"> - Aug 17, 2020 - Nov 9, 2020 - Feb 18, 2021 - May 10, 2021 		

and

- Aug 16, 2021

No exceedances were noted.

Nitrates and nitrites are required to be sampled every 3 months.

Question ID	MRDW1089000	
Question	Question Type	Legislative Requirement
Are all sodium water quality monitoring requirements prescribed by legislation conducted within the required frequency?	Legislative	SDWA O. Reg. 170/03 13-8
Observation		
All sodium water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Sodium was last sampled at all pumphouses on September 10, 2018, and results exceeded the 20 mg/L reportable limit at well 5 (61.2 mg/L) and well 3 (21.3 mg/L). An adverse water quality incident (AWQI) was reported (# 142905), with resampling conducted on September 18, 2018. Resample results confirmed the levels were greater than 20 mg/L (63.4 and 21.1 mg/L) at wellhouse 3 and 5. Sodium levels at Well 4 and Well 6 were 12.3 mg/L and 11.7 mg/L respectively.		
Sodium levels are required to be tested once every 5 years.		

Question ID	MRDW1090000	
Question	Question Type	Legislative Requirement
Where fluoridation is not practiced, are all fluoride water quality monitoring requirements prescribed by legislation conducted within the required frequency?	Legislative	SDWA O. Reg. 170/03 13-9
Observation		
All fluoride water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Sampling for fluoride was last conducted at all pumphouses on September 9, 2013 and September 10, 2018. No exceedances were noted. The maximum level noted was 1.34 mg/L. The limit is 1.5 mg/L. Fluoride is required to be tested once every 5 years.		

Question ID	MRDW1092000	
Question	Question Type	Legislative Requirement
Has the owner ensured that water samples are taken at the prescribed location?	Legislative	SDWA O. Reg. 170/03 6-2
Observation		
The owner ensured that water samples were taken at the prescribed location.		

Question ID	MRDW1095000	
Question	Question Type	Legislative Requirement
<p>Have all lead sampling requirements prescribed by Schedule 15.1 of O.R. 170/03 been met?</p>	<p>Legislative</p>	<p>SDWA O. Reg. 170/03 15.1-10, SDWA O. Reg. 170/03 15.1-4 (1),SDWA O. Reg. 170/03 15.1-5 (1), SDWA O. Reg. 170/03 15.1-5 (10),SDWA O. Reg. 170/03 15.1-5 (11), SDWA O. Reg. 170/03 15.1-5 (12),SDWA O. Reg. 170/03 15.1-5 (2), SDWA O. Reg. 170/03 15.1-5 (3),SDWA O. Reg. 170/03 15.1-5 (4), SDWA O. Reg. 170/03 15.1-5 (5),SDWA O. Reg. 170/03 15.1-5 (6), SDWA O. Reg. 170/03 15.1-5 (7),SDWA O. Reg. 170/03 15.1-5 (8), SDWA O. Reg. 170/03 15.1-5 (9),SDWA O. Reg. 170/03 15.1-7 (1), SDWA O. Reg. 170/03 15.1-7 (2),SDWA O. Reg. 170/03 15.1-7 (3), SDWA O. Reg. 170/03 15.1-7 </p>

		(4),SDWA O. Reg. 170/03 15.1-9 (1), SDWA O. Reg. 170/03 15.1-9 (2),SDWA O. Reg. 170/03 15.1-9 (3), SDWA O. Reg. 170/03 15.1-9 (4),SDWA O. Reg. 170/03 15.1-9 (5), SDWA O. Reg. 170/03 15.1-9 (6),SDWA O. Reg. 170/03 15.1-9 (7), SDWA O. Reg. 170/03 15.1-9 (8),SDWA O. Reg. 170/03 15.1-9 (9)
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Observation

All sampling requirements for lead prescribed by schedule 15.1 of O. Reg. 170/03 were being met. As this site has fulfilled its initial lead sampling requirements, section 15.1-5 (10) of Reg 170 allows the site to test for total alkalinity and for pH during each of the periods described in subsection 15.1-5 (5) in every 12-month period; and (b) to test for lead during each of the periods described in subsection (5) in every third 12-month period.

Lead was previously sampled in this DWS on January 22, 2018 and July 9, 2018. Lead was last sampled in this DWS on January 11, 2021 and July 12, 2021. The pH and alkalinity was sampled as well in these periods but also on January 14, 2019, July 15, 2019, Jan 27, 2020 and July 6, 2020. No exceedances were noted.

Question ID	MRDW1096000	
Question	Question Type	Legislative Requirement
Do records confirm that chlorine residual tests are being conducted at the same time and at the same location that microbiological samples are obtained?	Legislative	SDWA O. Reg. 170/03 6-3 (1)
Observation		
Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.		

Question ID	MRDW1097000	
Question	Question Type	Legislative Requirement
If the drinking water system obtains water from a ground water source, is turbidity being tested at least once every month from each well that is supplying water to the system?	Legislative	SDWA O. Reg. 170/03 7-3 (1.1)
Observation		
Turbidity was being tested at least once every month from each well that is supplying water to the system.		

Question ID	MRDW1098000	
Question	Question Type	Legislative Requirement
Has the owner indicated that the required records are kept and will be kept for the required time period?	Legislative	SDWA O. Reg. 170/03 13 (1), SDWA O. Reg. 170/03 13 (2), SDWA O. Reg. 170/03 13 (3)
Observation		
The owner indicated that the required records are kept and will be kept for the required time period.		

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

Question ID	MRDW1110000	
Question	Question Type	Legislative Requirement
Was an Annual Report containing the required information prepared by February 28 of the following year?	Legislative	SDWA O. Reg. 170/03 11 (6)
Observation		
The Annual Report containing the required information was prepared by February 28th of the following year.		

Question ID	MRDW1114000	
Question	Question Type	Legislative Requirement

Does the owner have evidence that, when required, all legal owners associated with the DWS were notified of the requirements of the Licence & Permit?	Legislative	SDWA 31 (1)
Observation		
The owner had evidence that all required notifications to all legal owners associated with the Drinking Water System had been made during the inspection period. The owner has advised that any subdivision developer's engineer must comply with the requirements of the Ontario Safe Drinking Water Act (SDWA) and all applicable regulations made in accordance to the act, including but not limited to the Drinking Water Works Permits (DWWP) and the Municipal Drinking Water Licence (MDWL). DWWP and MDWL are available from the Township's Water Department and it is the responsibility of the developer's engineer to obtain copies as necessary.		

Question ID	MRDW1116000	
Question	Question Type	Legislative Requirement
Were the inspection questions sufficient to address other identified best practice issues?	BMP	Not Applicable
Observation		
The following issues were also noted during the inspection: 1.) Although improved from the last inspection, it was still noted that some logbook entries were hard to read. It is recommended that greater care continued to be taken when making entries in logbooks, in order to ensure legibility and due diligence is attained.		

Question ID	MRDW1111000	
Question	Question Type	Legislative Requirement
Have Summary Reports for municipal council been completed on time, include the required content, and distributed in accordance with the regulatory requirements?	Legislative	SDWA O. Reg. 170/03 22-2 (1),SDWA O. Reg. 170/03 22-2 (2),SDWA O. Reg. 170/03 22-2 (3),SDWA O. Reg. 170/03 22-2 (4)
Observation		
Summary Reports for municipal council were completed on time, included the required content, and were distributed in accordance with the regulatory requirements.		

DWS – Stakeholder Guidance Material Reference Sheet

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

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

DWS – DWS Components

DWS Component Information Report for 220000068

as of 29-NOV-2021

Drinking Water System Profile Information

DWS # 220000068
MOE Assigned Name Mount Forest Drinking Water System
Category LMRS
Regulation O.REG 170/03
DWS Type Well Supply
Source Type Ground Water
Address 393 Parkside Drive, Mount Forest, Ontario, N0G 2L3, Canada
Region West Central Region
District Guelph District
Municipality Wellington North
Public Health Unit Wellington-Dufferin-Guelph Health Unit

LWIS Component Name	LWIS Component Type	LWIS Component Sub-Type	Component Address	Comments
Well 3 Raw	Source	Ground		Well 3 is a 305 mm diameter, 104 m deep bedrock well drilled in 1955, located within the pumphouse at 393 Parkside Drive. It is equipped with a submersible pump rated at 18.94 L/s at a total dynamic head of 90 m.
Well 6 Treated	Treated Water Poe	Treatment Facility		Pumphouse 6 includes a disinfection system utilizing 12% sodium hypochlorite, two chemical metering pumps (one duty, one spare), pre and post contact time continuous chlorine residual analyzers, a continuous flow meter and 80 m of 600 mm diameter of contact pipe for chlorine contact time. All continuous analyzers are connected to the Township's SCADA system. This site includes a receptacle for connecting to a portable generator.
Well 5 Treated	Treated Water Poe	Treatment Facility		Pumphouse 5 includes a disinfection system utilizing 12% sodium hypochlorite, two chemical metering pumps (one duty, one spare), pre and post contact time continuous chlorine residual analyzers, a continuous flow meter and 325 m of 400 mm diameter of contact pipe for chlorine contact time. All continuous analyzers are connected to the Township's SCADA system. This site includes a receptacle for connecting to a portable generator.
Well 3 Treated	Treated Water Poe	Treatment Facility		Pumphouse 3 includes a disinfection system utilizing 12% sodium hypochlorite, two chemical metering pumps (one duty, one spare), pre and post contact time continuous chlorine residual analyzers, a continuous flow meter and 170 m of 400 mm diameter of contact pipe for chlorine contact time. All continuous analyzers are connected to the Township's SCADA system. This pumphouse also has a booster pumping station and a standby diesel generator with a double-walled diesel storage tank.
Well 5 Raw	Source	Ground		Well 5 is a 305 mm diameter, 122 m deep bedrock well drilled in 1968, located inside the pumphouse at 125 Sligo Road East. It is equipped with a submersible pump rated at 45.5 L/s at a total dynamic head of 69.5 m, driven by a 45 kW electric motor.

DWS Component Information Report for 220000068

as of 29-NOV-2021

LWIS Component Name	LWIS Component Type	LWIS Component Sub-Type	Component Address	Comments
Well 6 Raw	Source	Ground		Well 6 is a 305 mm diameter, 122 m deep bedrock well drilled in 1979, located inside the pumphouse at 359 Perth Street. It is equipped with a vertical line shaft turbine pump rated at 45.5 L/s at a total dynamic head of 92.7 m, driven by a 56 kW electric motor.
Well 4 Treated	Treated Water Poe	Treatment Facility		Pumphouse 4 includes a disinfection system utilizing 12% sodium hypochlorite, two chemical metering pumps (one duty, one spare), pre and post contact time continuous chlorine residual analyzers, a continuous flow meter and 42 m of 600 mm diameter of contact pipe for chlorine contact time. All continuous analyzers are connected to the Township's SCADA system.
Distribution	Other			The distribution system has 2,020 residential and 280 ICI service connections and serves a population of approximately 4,600 consumers. There are approximately 31 km of various sized watermains and 170 fire hydrants and 16 private hydrants in the system. There is a 2,080 m ³ capacity standpipe storage tank located at 393 Parkside Drive. There are also 297 main valves.
Well 4 Raw	Source	Ground		Well 4 is a 305 mm diameter, 122 m deep bedrock well drilled in 1962, located inside the pumphouse on Birmingham Street adjacent to Hutchison Park. It is equipped with a vertical line shaft turbine pump rated at 22.7 L/s at a total dynamic head of 83.2 m, driven by a 22.5 kW electric motor.