



Ministry of the Environment,
Conservation and Parks

Drinking Water and Environmental
Compliance Division
West Central Region
Niagara District Office

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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 Niagara

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January 4, 2022

Cassandra Banting
Environmental Compliance Supervisor
City of Port Colborne
1 Killaly St W
Port Colborne, ON
Cassandra.Banting@portcolborne.ca

Re: MECP Inspection - Port Colborne Distribution System (DWS# 260001643)

Dear Ms. Banting,

Please find the enclosed copy of the inspection report # 1-31188032 for the Port Colborne Distribution System completed under the Ministry's focused inspection protocol to assess compliance with Safe Drinking Water legislation. The report is based on conditions encountered at the time of inspection, and subsequent follow-up.

If applicable, any items with found within the section entitled "Non-Compliance/Non-Conformance Items" which have sections under legislative requirements outline non-compliance with regulatory requirements contained within an Act, a Regulation, or site-specific approvals, licenses, permits, orders, or guidelines. Please ensure that the required actions are completed within the prescribed timeframe, if applicable.

The items with "Not Applicable" legislative requirements provide information to the owner or operating authority outlining practices or standards established through existing and emerging industry standards that should be considered in order to advance current efforts. These items do not, in themselves, constitute violations. More recommendations may also be provided within the body of the report.

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/external risk experts. The Inspection Summary Rating Record (IRR), included as an Appendix of the inspection report, provides the Ministry, the system owner and the local Public Health Units 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 Inspectors' 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).

Thank you for the assistance during the inspection. If you have any questions or concerns, do not hesitate to contact me or Brittney Wielgos, Acting Water Compliance Supervisor, West Central Region at (705)768-8195 or Brittney.wielgos@ontario.ca.

Sincerely,



Ivanna Okroukh
Water Inspector (A)
MECP Niagara District Office
West Central Region
437-243-5462
ivanna.okroukh@ontario.ca

Cc:

Chris Kalimootoo – Director Of Public Works, City of Port Colborne
Darlene Suddard, Manager of Water/Wastewater, City of Port Colborne
Tommy Peazel, ORO, City of Port Colborne
Glen Hudgin - Niagara Public Health Department
Leilani Lee-Yates - Niagara Peninsula Conservation Authority
Brittney Wielgos – Ministry of the Environment, Conservation and Parks
Sean Roelofsen - Ministry of the Environment, Conservation and Parks



PORT COLBORNE DISTRIBUTION SYSTEM
1 KILLALY ST W, PORT COLBORNE, ON, L3K 6H1
Inspection Report

System Number:	260001643
Inspection Start Date:	11/22/2021
Inspection End Date:	01/04/2022
Inspected By:	Sean Roelofsen
Badge #:	1273
Inspected By:	Ivanna Okroukh
Badge #:	

A handwritten signature in black ink, appearing to read "Sean Roelofsen".

(signature)

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NON-COMPLIANCE/NON-CONFORMANCE ITEMS

This should not be construed as a confirmation of full compliance with all potential applicable legal requirement and BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

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.</p> <p>On December 7, 2021, Inspectors Ivanna Okroukh and Sean Roelofsen conducted an announced inspection of the Port Colborne Distribution System, DWS # 260001643. The Corporation of the City of Port Colborne is the Owner and Operator of the Port Colborne Distribution System, which serves approximately 16,000 residents.</p> <p>The inspection period covered November 1, 2020 to October 31, 2021.</p> <p>The system is a stand-alone class 1 distribution system and obtains water from the Regional municipality of Niagara's Port Colborne water treatment plant and outstations. The distribution system is approximately 112 km in length, and the watermains are constructed of approximately 65 km of PVC and 36 km of cast iron, with the remaining 11 km being a combination of ductile iron, asbestos cement, and steel. There are approximately 1808 valves and 624 fire hydrants located throughout the system.</p> <p>During the inspection, Inspectors met with Compliance Supervisor Cassandra Banting, ORO Tommy Peazel and Manager Darlene Suddard. The two bulk water filling stations located on Elizabeth St and Elm St were visited on the same day.</p> <p>Records reviewed in conjunction with this inspection include, but were not limited to: Municipal Drinking Water Licence (MDWL) 073-101, Issue 4 and Drinking Water Works Permit</p>			

(DWWP) 073-201, Issue 5 issued on October 11, 2019, along with other documents maintained by the owner/operator associated with regulatory requirements under the Safe Drinking Water Act.

Question ID	MRDW1000000	
Question	Question Type	Legislative Requirement
Does this drinking water system provide primary disinfection?	Information	Not Applicable
Observation		
<p>This Drinking Water System provides for only secondary disinfection and distribution of water. Primary disinfection is undertaken by another regulated Drinking Water System which provides treated water to this Drinking Water System.</p> <p>Port Colborne Distribution system is a stand-alone, Class 1 Distribution system and obtains water from the Regional Municipality of Niagara's Port Colborne Drinking Water System, DWS # 220002075. The City of Port Colborne does not perform any secondary disinfection, as the treatment plant and outstations sufficiently chlorinate the water to meet the minimum requirements of free chlorine residual.</p>		

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		
<p>The secondary disinfectant residual was measured as required for the distribution system.</p> <p>The City of Port Colborne monitors the free chlorine residual in the distribution system, utilizing the 4/3 option as described in Sched. 7-2(4) of O. Reg. 170/03 (ie. at least 4 samples taken on one day of the week, at least 3 samples taken on a second day of the week, at least 48 hours apart). The City generally samples more locations than required, rotating sampling locations on a weekly basis in a 4-week rotation.</p>		

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.

One Form 1 was completed during the inspection period for work related to the replacement of 755m of watermain on Erie St, which met the requirements of the DWWP.

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.		
City of Port Colborne has SOP# C2.4 (Standard Operating Procedure for Repair of Watermain Breaks) to document procedures on Watermain Repair/Maintenance Reports. All required information was recorded on the documents reviewed for the inspection period.		
The Ministry's Watermain Disinfection Procedure (WDP) was updated and approved in August 2020. As per Condition 2.3.2, the City of Port Colborne is now required to follow the requirements of the updated Watermain Disinfection Procedure, August 2020.		

Question ID	MRDW1062000	
Question	Question Type	Legislative Requirement
Do records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment is being done by a certified operator, water quality analyst, or person who meets the requirements of O. Reg. 170/03 7-5?	Legislative	SDWA O. Reg. 170/03 7-5
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	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	MRDW1071000	
Question	Question Type	Legislative Requirement
Has the owner provided security measures to protect components of the drinking water system?	BMP	Not Applicable
Observation	<p>The owner had provided security measures to protect components of the drinking water system.</p> <p>Backflow prevention devices and/or air gaps are in place at the City's two bulk water filling stations. Access is restricted to holders of a security pass card. The Inspectors observed trucks filling at each location, the air gap works as required.</p>	

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	<p>The overall responsible operator has been designated for each subsystem.</p> <p>The Port Colborne Distribution System is classified as a Class 1 Distribution subsystem.</p> <p>The designated ORO is Tommy Peazel, who holds a valid Class 2 license, expiring July 31, 2022.</p>	

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	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	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	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.		
The City of Port Colborne is required to take at least 26 microbiological samples (testing for Total Coliform bacteria and E. Coli) per month, including at least one sample per week, as per Schedule 10 of O. Reg. 170/03. At least 25% of the samples must also be tested for Heterotrophic Plate Count (HPC).		

The City generally takes eight microbiological samples per week (32 samples per month), rotating through sampling locations on a weekly basis in a 4-week rotation.

A review of sampling records indicated that the City has complied with all microbiological sampling requirements.

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.		
Haloacetic Acid (HAA) samples were collected and tested on a quarterly basis with an annual running average of 5.6 ug/L. The Region also samples for HAAs in its distribution mains.		
The prescribed limit of 80 ug/L took effect on January 1, 2020.		

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		
All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.		
Trihalomethane (THM) samples are collected and tested on a quarterly basis from two locations in the distribution system. Niagara Region also tests for THMs in its distribution mains. The running annual average is currently 20.75 ug/L.		

The drinking water standard for THMs is 100 ug/L, expressed as a running annual average.

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 reportable adverse/exceedances during the inspection period.		
The City of Port Colborne reported one AWQI during the inspection review period: AWQI 154943 - August 3, 2021 at SS 36, FCR = 0.02 mg/L.		
All reporting requirements and corrective actions were completed as required.		

Question ID	MRDW1101000	
Question	Question Type	Legislative Requirement
Have corrective actions (as per Schedule 17) been taken to address adverse conditions, including any other steps as directed by the Medical Officer of Health?	Legislative	SDWA O. Reg. 170/03 17-1, SDWA O. Reg. 170/03 17-10 (1),SDWA O. Reg. 170/03 17-10 (2),SDWA O. Reg. 170/03 17-11,SDWA O. Reg. 170/03 17-12,SDWA O. Reg. 170/03 17-13,SDWA O. Reg. 170/03 17-14,SDWA O. Reg. 170/03 17-2,SDWA O. Reg. 170/03 17-3,SDWA O. Reg. 170/03 17-4,SDWA O. Reg. 170/03 17-5,SDWA O. Reg. 170/03 17-6,SDWA O. Reg. 170/03 17-9

Observation
Corrective actions (as per Schedule 17) had been taken to address adverse conditions, including any other steps that were directed by the Medical Officer of Health.

Question ID	MRDW1113000		
Question		Question Type	Legislative Requirement
Have all changes to the system registration information been provided to the Ministry within ten (10) days of the change?		Legislative	SDWA O. Reg. 170/03 10.1 (3)
Observation			
All changes to the system registration information were provided within ten (10) days of the change.			
All profile information is accurate/up to date, the Drinking Water System Profile Information Form was submitted to the ministry via waterforms@ontario.ca.			

Question ID	MRDW1104000	
Question	Question Type	Legislative Requirement
Were all required verbal notifications of adverse water quality incidents immediately provided as per O. Reg. 170/03 16-6?	Legislative	SDWA O. Reg. 170/03 16-6 (1),SDWA O. Reg. 170/03 16-6 (2),SDWA O. Reg. 170/03 16-6 (3),SDWA O. Reg. 170/03 16-6 (3.1),SDWA O. Reg. 170/03 16-6 (3.2),SDWA O. Reg. 170/03 16-6 (4),SDWA O. Reg. 170/03 16-6 (5),SDWA O. Reg. 170/03 16-6 (6)
Observation		
All required notifications of adverse water quality incidents were immediately provided as per O. Reg. 170/03 16-6.		

Question ID	MRDW1117000	
Question	Question Type	Legislative Requirement

Are there any other DWS related items that should be recognized in this report?	Information	Not Applicable
Observation		
<p>The following items are noted as being relevant to the Drinking Water System:</p> <p>Due to the COVID-19 Pandemic and its potential effect on drinking water staffing levels, the City of Port Colborne applied for, and received, the following regulatory relief from the Ministry:</p> <ol style="list-style-type: none"> 1. The Operator in Charge (OIC) may categorize watermain breaks remotely provided that the OIC is in direct contact via a video link with an Operator-in-Training, or an O. Reg. 75/20-designated operator, that is on-site for the watermain break. 2. O. Reg. 170/03, Schedule 10 - 2 (1): At minimum 75% of the required distribution microbiological samples (20 samples) must be taken every month, with at least two (2) of the samples being in each week. 3. O. Reg. 170/03, Schedule 7: At a minimum at least three (3) free chlorine residual samples must be taken on one day of the week, and two (2) samples on another day of the week 48 hours apart (5 samples per week). <p>An application for an extension for temporary relief was submitted on December 9, 2020 and approved during the inspection period. Subject to condition 2.3 in Schedule B of DWWP, the Director hereby authorised the following procedures until May 31, 2021.</p> <p>It should be noted that the City did not have to use the relief conditions set out above, as they have been able to operate normally during the inspection review period and during the pandemic.</p>		

Question ID	MRDW1059000	
Question	Question Type	Legislative Requirement
Do the operations and maintenance manuals contain plans, drawings and process descriptions sufficient for the safe and efficient operation of the system?	Legislative	SDWA O. Reg. 128/04 28
Observation		
The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.		

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.		

Appendix B

Inspection Rating Record (IRR)

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

DWS Name: PORT COLBORNE DISTRIBUTION SYSTEM
DWS Number: 260001643
DWS Owner: CORPORATION OF THE CITY OF PORT COLBORNE
Municipal Location: PORT COLBORNE

Regulation: O.REG. 170/03
DWS Category: DW Municipal Residential
Type of Inspection: Focused
Inspection Date: Nov-22-21
Ministry Office: Niagara District Office

Maximum Risk Rating: 220

Inspection Module	Non Compliance Rating
Treatment Processes	0 / 46
Operations Manuals	0 / 28
Logbooks	0 / 18
Certification and Training	0 / 28
Water Quality Monitoring	0 / 51
Reporting & Corrective Actions	0 / 49
Overall - Calculated	0 / 220

Inspection Risk Rating:	0.00%
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Final Inspection Rating:	100.00%
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Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2021-2022)

DWS Name: PORT COLBORNE DISTRIBUTION SYSTEM
DWS Number: 260001643
DWS Owner Name: CORPORATION OF THE CITY OF PORT COLBORNE
Municipal Location: PORT COLBORNE

Regulation: O.REG. 170/03
DWS Category: DW Municipal Residential
Type of Inspection: Focused
Inspection Date: Nov-22-21
Ministry Office: Niagara District Office

All legislative requirements were met. No detailed rating scores.

Maximum Question Rating: 220

Inspection Risk Rating: 0.00%

FINAL INSPECTION RATING: 100.00%