



MUNICIPALITY OF

**PORT HOPE**

ENVIRONMENTAL SERVICES

# Port Hope Community Hub



2025 Drinking  
Water System  
Annual Report



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March 3, 2026

Municipality of Port Hope  
56 Queen Street  
Port Hope, ON  
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**RE: 2025 Annual Report – Port Hope Community Hub Drinking Water System  
No. 260099216**

Dear Mr. Mike Melinyshyn:

We are pleased to provide the 2025 Annual Report for the Municipality of Port Hope's Community Hub Drinking Water System, as outlined in Section 11 of Ontario Regulation 170/03, made under the *Safe Drinking Water Act 2002*.

This report includes information from October 27, 2025, to December 31, 2025.

Sincerely,

Mike Stewart  
Manager, Water  
Municipality of Port Hope

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## 2025 Annual Drinking Water System Report

### System Information

Drinking-Water System Number:	<b>260099216</b>
Drinking-Water System Name:	<b>Port Hope Community Hub Drinking Water System</b>
Drinking-Water System Owner:	<b>The Corporation of the Municipality of Port Hope</b>
Drinking-Water System Category:	<b>Small Municipal Non-Residential System</b>
Reporting Period:	<b>October 27, 2025 to December 31, 2025</b>

**Does your Drinking-Water System serve more than 10,000 people?**

**No**

**Is your annual report available to the public at no charge on a web site on the Internet?**

**Yes** – please visit [www.porthope.ca](http://www.porthope.ca)

**Location where Annual Report required under O. Reg. 170/03 Section 11 will be available for inspection.**

Port Hope Municipal Town Hall  
56 Queen Street  
Port Hope, ON L1A 3Z9

\*Also available at the Municipal Libraries (Mary J Benson Branch and Port Hope Community Hub).

**List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:**

N/A

**Indicate how you notified system users that your annual report is available and is free of charge.**

Public access/notice via the web

Public access/notice via Government Office

Public access/notice via a newspaper

Public access/notice via Public Request

Public access/notice via a Public Library

Public access/notice via other method:

### **Description of the Drinking Water System**

The Port Hope Community Hub Drinking Water System (DWS) is classified as a Small Municipal Non-Residential System, located at 5325 Country Road 10 in the Municipality of Port Hope, County of Northumberland, Ontario. The Municipality is the Owner and Operator of the Port Hope Community Hub DWS that services a single building occupied by a designated facility under O. Reg. 170/03; childcare centre (YMCA Northumberland), a library, and a municipal rental space (banquet hall) on approximately 25.3 ha property occupied by the building, parking area, cenotaph and grass area.

The following describes the components of the Port Hope Community Hub DWS:

#### Raw Water Source

The water supply for Port Hope WTP is obtained from a secured drill well using a 0.75 hp submersible well pump. The well provides good quality water. The raw water enters the water treatment room within the building, which houses the treatment equipment. The raw water source is classified as ground water NOT under the direct influence of surface water.

#### Pre Treatment

The drinking water treatment system includes two parallel 5-micron nominal sediment cartridge filters to remove suspended particles and extend the service life of the downstream UV units.

#### Treatment

The drinking water treatment system uses two parallel Pro20 ultraviolet (UV) disinfection units for primary disinfection and has a treatment design capacity of 151.4 litres/minute (L/min) based on the restricted flow rate of the parallel UV units, both equipped with intensity sensor, alarm, automated solenoid valve and battery backup unit.

### **List all water treatment chemicals used over this reporting period:**

#### Chemical Systems

All chemicals and materials used in the operation of the Port Hope Drinking Water System which came into contact with drinking water, met the AWWA and the ANSI safety criteria standards NSF/60 and NSF/61.

**Table 1 - Summary of Annual Water Treatment Chemicals Used**

Chemical	Purpose	Chemical Concentration (%)

**Were any significant expenses incurred to?**

Install required equipment

Repair required equipment

Replace required equipment

**Brief description and a breakdown of monetary expenses incurred:**

Preventative maintenance activities for equipment are scheduled and completed routinely along with other lifecycle replacement needs. No major monetary expenditures to install, repair or replace required equipment were incurred throughout this Reporting Period.

Description	Monetary Expenses
Engineering Evaluation Report	\$2,480
Upgrades to drinking water system to accommodate designated facility, including spare parts	\$31,667

**Notices submitted in accordance with subsection 18(1) of the Safe Drinking Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre during this Reporting Period:**

**Table 2 – Summary of Reportable Incidents**

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Completed

**Microbiological Testing completed under Schedule 10, 11, or 12 of Regulation 170/03 during this Reporting Period:**

**Table 3 - Microbiological Testing Summary**

Type of Sample	Number of Samples	Range of E.Coli Or Fecal Results (min #) – (max #)	Range of Total Coliform Results (min #) – (max #)	Number of HPC Samples	Range of HPC Results (min #) – (max #)
Raw	5	0	0	N/A	N/A
Distribution	5	0	0	N/A	N/A

**Operational Testing completed under Schedule 13 or 15 of Regulation 170/03 during the Reporting Period covered by this Annual Report:**

**Table 4 - Operational Testing Summary**

Parameters	Number of Grab Samples	Range of Results (min #)-(max #)	Annual Average	Unit of Measure
Nitrate	1	0.003<MDL	0.003<MDL	as N mg/L
Nitrite	1	0.006<MDL	0.006<MDL	as N mg/L
Nitrate + Nitrite (as N)	1	0.006<MDL	0.006<MDL	as N mg/L

**Summary of additional testing and sampling carried out in accordance with the requirement of an Approval, Order, or other Legal Instrument:**

N/A

**Table 5 – Summary of Inorganic parameters tested during this Reporting Period or the most recent Sample Results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	November 18, 2025	0.6 <MDL	ug/L	No
Arsenic	November 18, 2025	3.4	ug/L	No
Barium	November 18, 2025	101	ug/L	No
Boron	November 18, 2025	61	ug/L	No
Cadmium	November 18, 2025	0.003<MDL	ug/L	No
Chromium	November 18, 2025	0.08<MDL	ug/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Mercury</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Selenium</b>	November 18, 2025	0.04 <MDL	ug/L	No
<b>Sodium</b>	November 18, 2025	19.4	mg/L	No
<b>Uranium</b>	November 18, 2025	0.171	ug/L	No
<b>Fluoride</b>	December 9, 2025	0.50	mg/L	No

**Table 6 – Summary of Organic parameters sampled during this Reporting Period**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Benzene</b>	November 18, 2025	0.32 <MDL	ug/L	No
<b>Carbon tetrachloride</b>	November 18, 2025	0.17 <MDL	ug/L	No
<b>1,2-Dichlorobenzene</b>	November 18, 2025	0.41 <MDL	ug/L	No
<b>1,4-Dichlorobenzene</b>	November 18, 2025	0.36 <MDL	ug/L	No
<b>1,1-Dichloroethylene (vinylidene chloride)</b>	November 18, 2025	0.33 <MDL	ug/L	No
<b>1,2-Dichloroethane</b>	November 18, 2025	0.35 <MDL	ug/L	No
<b>Dichloromethane</b>	November 18, 2025	0.35 <MDL	ug/L	No
<b>Monochlorobenzene</b>	November 18, 2025	0.3 <MDL	ug/L	No
<b>Tetrachloroethylene (perchloroethylene)</b>	November 18, 2025	0.35 <MDL	ug/L	No
<b>Trichloroethylene</b>	November 18, 2025	0.44 <MDL	ug/L	No
<b>Vinyl Chloride</b>	November 18, 2025	0.17 <MDL	ug/L	No
<b>Diquat</b>	November 18, 2025	1 <MDL	ug/L	No
<b>Paraquat</b>	November 18, 2025	1 <MDL	ug/L	No
<b>Glyphosate</b>	November 18, 2025	1 <MDL	ug/L	No
<b>Polychlorinated Biphenyls (PCBs) - Total</b>	November 18, 2025	0.04 <MDL	ug/L	No
<b>Benzo(a)pyrene</b>	November 18, 2025	0.004 <MDL	ug/L	No
<b>Alachlor</b>	November 18, 2025	0.02 <MDL	ug/L	No
<b>Atrazine + N-dealkylated metabolites</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Atrazine</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Desethyl atrazine</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Azinphos-methyl</b>	November 18, 2025	0.05 <MDL	ug/L	No
<b>Carbaryl</b>	November 18, 2025	0.05 <MDL	ug/L	No
<b>Carbofuran</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Chlorpyrifos</b>	November 18, 2025	0.02 <MDL	ug/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Diazinon</b>	November 18, 2025	0.02 <MDL	ug/L	No
<b>Dimethoate</b>	November 18, 2025	0.06 <MDL	ug/L	No
<b>Diuron</b>	November 18, 2025	0.03 <MDL	ug/L	No
<b>Malathion</b>	November 18, 2025	0.02 <MDL	ug/L	No
<b>Metolachlor</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Metribuzin</b>	November 18, 2025	0.02 <MDL	ug/L	No
<b>Phorate</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Prometryne</b>	November 18, 2025	0.03 <MDL	ug/L	No
<b>Simazine</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Terbufos</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Triallate</b>	November 18, 2025	0.01 <MDL	ug/L	No
<b>Trifluralin</b>	November 18, 2025	0.02 <MDL	ug/L	No
<b>2,4-dichlorophenoxyacetic acid (2,4-D)</b>	November 18, 2025	0.19 <MDL	ug/L	No
<b>Bromoxynil</b>	November 18, 2025	0.33 <MDL	ug/L	No
<b>Dicamba</b>	November 18, 2025	0.20 <MDL	ug/L	No
<b>Diclofop-methyl</b>	November 18, 2025	0.40 <MDL	ug/L	No
<b>MCPA</b>	November 18, 2025	0.00012 <MDL	ug/L	No
<b>Picloram</b>	November 18, 2025	1 <MDL	ug/L	No
<b>2,4-dichlorophenol</b>	November 18, 2025	0.15 <MDL	ug/L	No
<b>2,4,6-trichlorophenol</b>	November 18, 2025	0.25 <MDL	ug/L	No
<b>2,3,4,6-tetrachlorophenol</b>	November 18, 2025	0.20 <MDL	ug/L	No
<b>Pentachlorophenol</b>	November 18, 2025	0.15 <MDL	Ug/L	No

**Table 6 – Inorganic or Organic parameter(s) that have exceeded half the standard prescribed in Schedule 2 or Ontario Drinking Water Quality Standards**

Parameters	Result Value	Unit of Measure	Date of Sample
N/A			

**Operational Testing completed under Schedule 15.2 of Regulation 170/03 during the Reporting Period covered by this Annual Report:**

**Table 7- Summary of Lead Testing under Schedule 15.2 during this Reporting Period**

Sampling Period	Location Type	Number of Samples	Range of Lead Results (ug/L), (min – max)	Number of Exceedances
January to December <sup>1</sup>		0		

**Acts, Regulations, and Prescribed Instruments applicable to the Port Hope Community Hub DWS:**

The Port Hope Community Hub DWS is governed by, and must operate their DWS in accordance with the following Acts and Regulations at minimum:

- Safe Drinking Water Act, 2002;
  - O. Reg. 170/03 – Drinking Water Systems;
  - O. Reg. 243/07 – Schools, Private Schools and Child Care Centre

**Compliance with Prescribed Instruments, Acts and Regulations:**

**Safe Drinking Water Act**

The Municipality, acting as the Operating Authority for the operation of the Port Hope Community Hub DWS, endeavors to be fully compliant with Ontario Acts, Regulations and Orders. No MECP inspection took place during the reporting period.

No notices were submitted to the MECP in accordance with section 16-3 of Schedule 16 of O.Reg.170/03.

O. Reg. 243/07 regulates lead sampling, flushing, and reporting in schools, private schools, and day nurseries through flushing requirements and sampling and analysis. The regulation requires sampling of every tap that is used for food preparation or used for drinking water consumption by January 1, 2020, all within the prescribed sampling period of May 1 to October 31. Sampling and reporting must be conducted as prescribed in Section 5 and reporting prescribed in Section 6 of O.Reg.243/07. Corrective action must be conducted as prescribed in Section 7 and information and records of flushing and sampling must be kept in accordance with Section 8 and Section 9, respectively. Flushing of the building plumbing must be completed in accordance with

<sup>1</sup> Schedule 15.2 does not apply to a drinking water system that serves a school, private school or childcare centre to which Ontario Regulation 243/07 (Schools, Private Schools and Child Care Centres) made under the Act applies.

Section 3 and Section 4 of O.Reg.243/07. Weekly or daily flushing frequencies are prescribed based on plumbing age and sample results. Weekly flushing must be completed before the facility opens for the week and daily flushing must be completed every day the facility is open. Any flushing activities must be completed prior to the facility opening for the day. The YMCA Northumberland, operators of the childcare centre, shall ensure that all flushing and sampling requirements are met.

**Abnormal or Emergency Drinking Water System Operating Conditions:**

There were no abnormal or emergency DWS operating conditions as a result of an emergency situation in 2025.