The Regional Municipality of Durham

Bowmanville Drinking Water System 2022 Annual Report Drinking Water System Number: 220000852 Municipal Drinking Water Licence Number: 003-103 Drinking Water System Owner: The Regional Municipality of Durham Drinking Water System Category: Large Municipal Residential This Annual Report for the calendar year 2022 is designed to inform you about your drinking water system. This report has been prepared to satisfy Section 11 of Ontario Regulation (O. Reg.) 170/03. O. Reg. 170/03 sets requirements for drinking water systems with regard to sampling and testing, levels of treatment, certification of staff, and notification of authorities and the public about water quality. Hard copies of this report and the Schedule 22 Summary Report are available at the Regional Municipality of Durham Headquarters office that is located at 605 Rossland Road East, Whitby. The annual report is also available on the Region of Durham's website at www.durham.ca. Further information regarding the Drinking Water Regulations can be found on the Ministry of the Environment, Conservation and Parks website at www.ontario.ca/ministry-environment-conservation-parks.

Drinking Water System Process Description

General

The Bowmanville Drinking Water System provides potable water to consumers in the Bowmanville urban area in the Municipality of Clarington. The water supply plant is a Class Two Water Treatment Plant with an approved capacity of 36,368 cubic metres per day (m³/d). The Bowmanville Water Supply Plant feeds a Class Two Distribution Subsystem and Class Two Trunk Distribution Subsystem. The treatment and distribution subsystems are owned and operated by the Regional Municipality of Durham.

The source water for the treatment process is drawn from Lake Ontario. The water supply system includes the following processes:

- Zebra mussel control (chlorine),
- Screening,
- Low lift pumping,
- Coagulation (polyaluminum chloride),
- Flocculation,
- Filtration,
- Residual Management,
- Disinfection (chlorine),
- High lift pumping, and
- Distribution system.

Raw Water Supply

Raw water is drawn from Lake Ontario through a 1,050 millimetre diameter intake pipe extending 1,260 metres (m) into the lake. The intake structure is located at a depth of approximately 12 m. The water is drawn into the raw water well by low lift pumps where screening takes place to remove large solids. Chlorine is added at the raw water intake for zebra mussel control. The free chlorine residual and raw turbidity are continuously monitored by analyzers as the raw water enters the treatment plant.

Coagulation/Flocculation

The water flows through traveling screens to remove large solids and continues towards the low lift pumps. Polyaluminum chloride is added into a mechanical mixer upstream of the flocculation tanks. After rapid mixing, the water enters the flocculation tanks where flocculated particles are developed by slow mixing action.

Filtration

Particulate matter that was present in the raw water is captured by the coagulation and flocculation process and deposited on top of the filters. The water supply plant has two dual-compartment multi-media gravity filters which discharge by gravity into a dedicated 690 cubic metre (m³) capacity clearwell, as well as a single compartment dual media gravity rapid filter which discharges into a dedicated 506 m³ capacity clearwell. Filter effluent turbidity and head loss are continuously monitored to indicate filter effectiveness. Treated water from the clearwells flows into the plant underground reservoir.

Residual Management

Filter backwash treatment includes, filter surface washing equipment, air scouring, two wastewater hopper settling tanks and a supernatant pumping well. The sludge and supernatant are discharged to the sanitary sewer system.

Disinfection and High Lift Pumping

The water then flows to a high lift pumping station equipped with six vertical turbine pumps which deliver the water to the distribution system. Disinfection is achieved by the addition of chlorine at multiple application points throughout the plant. The free chlorine residual and turbidity are monitored continuously by online analyzers.

Distribution System

The distribution system delivers the treated water through approximately 192 kilometres of watermains in two pressure zones and includes a 2,894 m³ reservoir, a 1,287 m³ elevated storage tank and a pumping station. Additional rechlorination can be applied at the reservoir facility.

Major Monetary expenses (above \$10,000)

Under Section 11 of O. Reg. 170/03, a description of any major expenses incurred during this reporting period to install, repair or replace required equipment must be included in the annual report.

Remaining project costs incurred in 2022 for new chlorine gas scrubber -

\$18,317.00

Watermain replacement on Regional road 57 - \$43,937.69

Raw water flowmeter replacement - \$20,750.00

Tables

For a description of terms and abbreviations in all tables, refer to the glossary at the end of the report.

Bowmanville Drinking Water System (DWS) Table 1

Summary of all Adverse Water Quality Incidents in 2022 Reported to Spills Action Centre in Accordance with Schedule 16-3 and 16-4 of O. Reg. 170/03.

Incident Date	Parameter	Result	Corrective Action	Corrective Action Date
July 29	Lead (distribution)	0.0134 mg/L	Replaced hydrant components, flushed, resampled. Results met ODWQS.	August 9
July 29	Lead (distribution)	0.109 mg/L	Replaced hydrant components, flushed, resampled. Results met ODWQS.	August 9

Bowmanville DWS Table 2

Microbiological Membrane Filtration (MF) Testing Under Schedule 10 of O. Reg. 170/03.

Type of Sample	Number of	Range of Escherichia Coli MF Colony	Range of Total Coliforms MF Colony		
	Samples	Forming Units per 100 Millilitres	Forming Units per 100 Millilitres		
Raw	197	Non-Detect (ND) - 4	ND - 420		
Treated	4	ND	ND		
Distribution	16	ND	ND		

*Number in parenthesis represents number of exceedance(s).

Bowmanville DWS Table 3

Microbiological Presence Absence (P/A) Testing Under Schedule 10 of O. Reg. 170/03.

Type of Sample	Number of Samples	Escherichia Coli P/A per 100 Millilitres	Total Coliforms P/A per 100 Millilitres
Treated	197	Absence (A)	A
Distribution	832	A	A

*Number in parenthesis represents number of exceedance(s).

Bowmanville DWS Table 4

Microbiological Heterotrophic Plate Count (HPC) Testing Under Schedule 10 of O. Reg. 170/03.

Type of Sample	Number of Samples	Range of HPC Samples Colony Forming Units per Millilitre
Treated	201	Non-Detect (ND) - 27
Distribution	513	ND-1300

Bowmanville DWS Table 5

Operational Testing Under Schedule 7 of O. Reg. 170/03.

Test	Number of Samples	Range of Results	Unit of Measure	Parameter Description
Turbidity - Filter Effluent	Continuous	0.01 - 0.16*	Nephelometric Turbidity Units (NTU)	Turbidity is a measure of particles in water.
Free Chlorine - Plant	Continuous	1.73 – 4.44*	Milligram per Litre (mg/L)	Must be sufficient to ensure disinfection has been achieved.
Free Chlorine - Distribution	Continuous	0.36 – 3.40*,	mg/L	Recommended level of at least 0.20 mg/L in the distribution system to maintain secondary disinfection, 0.05 mg/L is the minimum required.

*Results include all analyzers and grab samples.

Bowmanville DWS Table 6

Summary of Additional Testing and Sampling Carried Out in Accordance with the Requirement of an Approval, Order or Other Legal Instrument.

Type of Sample	Parameter	Date Sampled	Result	MAC	Unit of Measure
Raw Water	Gross Beta	January - December	0.08 - 0.127	Not Applicable (N/A)	Becquerels per Litre (Bq/L)
Raw Water	Tritium	January - December	0.20 - 16.50	7,000*	Bq/L
Raw Water	Microcystin (Total)	June - October	Non-Detect (ND)	1.5	Microgram per Litre (ug/L)
Treated Water	Microcystin (Total)	June - October	ND	1.5	ug/L

* Tritium does not have a Maximum Acceptable Concentration (MAC) for raw water. Treated water MAC of 7,000 Bq/L is provided as a guideline for interpretation of results only.

Summary of Treated Water Chemical Parameter Testing Under Schedules 13 and 23 of O. Reg. 170/03.

Arsenic14ND - 0.0012per Litre (mg/L)NoMining.Barium2 $0.0216 - 0.026$ 1.0 mg/LNoMetal refineries, oil drillingBoron2 $0.021 - 0.0256$ 5.0 mg/LNoIndustrial.Cadmium14 $0.0206 - 0.026$ 0.005 mg/LNoIndustrial.Chromium14ND 0.05 mg/LNoIndustrial.Total Haloacetic acids - Distribution (annual average)12 46 80 Microgram per Litre (ug/L)NoIndustrial.Mercury2ND 0.001 mg/LNoIndustrial.Selenium14ND 0.05 mg/LNoIndustrial.Sodium12 $3.7 - 17.7$ Not Applicable**NoStorm water runoff includi road salt.	Parameter	Number of	Results	MAC	Unit of	MAC	Potential Sources*
Image: Mark Series (ND) - 0.0012 per Litre (mg/L) electronics, solder. Arsenic 14 ND - 0.0007 0.01 mg/L No Mining. Barium 2 0.0216 - 0.0266 1.0 mg/L No Metal refineries, oil drilling Boron 2 0.021 - 0.0256 5.0 mg/L No Industrial. Cadmium 14 0.0206 - 0.026 0.005 mg/L No Industrial. Chromium 14 ND 0.05 mg/L No Industrial. Total Haloacetic acids - Distribution (annual average) 12 46 80 Microgram per Litre (ug/L) No By-product of chlorination drinking water. Selenium 14 ND 0.001 mg/L No Industrial. Solium 12 13.7 - 17.7 Not mg/L No Storm water runoff includi road salt. Total Trihalomethanes - Distribution (annual average) 12 70.1 100 ug/L No By-product of chlorination drinking water.		Samples	Range		Measure	Exceedance	
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Arsenic 14 ND - 0.0007 0.01 mg/L No Mining. Barium 2 0.0216 - 0.0246 1.0 mg/L No Metal refineries, oil drilling 0.0246 Boron 2 0.021 - 0.0256 5.0 mg/L No Industrial. Cadmium 14 0.0206 - 0.026 0.005 mg/L No Industrial. Chromium 14 ND 0.05 mg/L No Industrial. Chromium 14 ND 0.05 mg/L No Industrial. Total Haloacetic acids - Distribution (annual average) 12 46 80 Microgram per Litre (ug/L) No By-product of chlorination drinking water. Selenium 14 ND 0.001 mg/L No Industrial. Sodium 12 13.7 – 17.7 Not Applicable** mg/L No Storm water runoff includi road salt. Total Trihalomethanes - Distribution (annual average) 12 70.1 100 ug/L No By-product of chlorination drinking water. </td <td></td> <td></td> <td>(ND) – 0.0012</td> <td></td> <td>per Litre</td> <td></td> <td>electronics, solder.</td>			(ND) – 0.0012		per Litre		electronics, solder.
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Distribution (annual average)Image: Construction (annual<	Chromium	14	ND	0.05	mg/L	No	Industrial.
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Total Trihalomethanes - Distribution (annual average)1270.1100ug/LNoBy-product of chlorination drinking water.Uranium2ND0.02mg/LNoPower generation.	Sodium	12	13.7 – 17.7	Not	mg/L	No	Storm water runoff including
Distribution (annual average)Image: Second				Applicable**			road salt.
average)Image: Constraint of the second	Total Trihalomethanes -	12	70.1	100	ug/L	No	By-product of chlorination of
Uranium2ND0.02mg/LNoPower generation.	Distribution (annual						drinking water.
	average)						
Fluoride 12 0.08 - 0.1 1.5 mg/L No Mining	Uranium	2	ND	0.02	mg/L	No	Power generation.
	Fluoride	12	0.08 - 0.1	1.5	mg/L	No	Mining

Bowmanville DWS Table 7 continued

Parameter	Number of	Results Range	MAC	Unit of	MAC	Potential Sources*
	Samples			Measure	Exceedance	
Nitrite	12	Non-Detect	1.0	Milligram	No	Agriculture runoff, landfill
		(ND)		per Litre		leachate and animal waste.
				(mg/L)		
Nitrate	12	ND	10.0	mg/L	No	Fertilizer.

* Parameters may occur naturally in the environment.

** Sodium does not have a Maximum Acceptable Concentration (MAC); only an aesthetic objective of 200 mg/L. Sodium results exceeding 20 mg/L are to be reported to the Medical Officer of Health as per Schedule 16-3 (8) of O. Reg. 170/03 if it has not been reported in the preceding 57 months.

Bowmanville DWS Table 8

Summary of Lead Testing Under Schedule 15.1 of O. Reg. 170/03.

Location Type	Number of Samples	Range of Lead Results Milligram per Litre	MAC	Number of Exceedances	рН	Alkalinity Milligram per Litre
Plumbing	111	Non-Detect (ND) – 0.0024	0.01	0	7.40 - 8.00	N/A
Distribution	16	ND – 0.109	0.01	2	7.60 - 8.00	88.5 - 91.7

*One residential plumbing sample on October 6, 2022, was analyzed for alkalinity.

Bowmanville DWS Table 9

Summary of Treated Water Organic Parameter Testing Under Schedule 24 of O. Reg. 170/03.

Parameter	Number	Results	MAC	Unit of	MAC	Potential Sources
	of	Range		Measure	Exceedance	
	Samples					
Alachlor	2	Non-	5	Microgram	No	Agricultural herbicide.
		Detect		per Litre		
		(ND)		(ug/L)		
Atrazine + N-dealkylated	2	ND	5	ug/L	No	Agricultural herbicide.
metabolites						

Parameter	Number of Samples	Results Range	MAC	Unit of Measure	MAC Exceedance	Potential Sources
Azinphos-methyl	2	ND	20	ug/L	No	Insecticide.
Benzene	2	Non- Detect (ND)	1	Microgram per Litre (ug/L)	No	Plastics manufacturing, leaking fuel tanks.
Benzo(a)pyrene	2	ND	0.01	ug/L	No	Formed from the incomplete burning of organic matter.
Bromoxynil	2	ND	5	ug/L	No	Agricultural herbicide.
Carbaryl	2	ND – No Result (NR)	90	ug/L	No	Agricultural, forestry, household insecticide.
Carbofuran	2	ND - NR	90	ug/L	No	Agricultural insecticide.
Carbon Tetrachloride	2	ND	2	ug/L	No	Chemical and industrial activities.
Chlorpyrifos	2	ND	90	ug/L	No	Agricultural, household insecticide.
Diazinon	2	ND	20	ug/L	No	Agricultural, livestock, operation, residential insecticide.
Dicamba	2	ND	120	ug/L	No	Agricultural herbicide
1,2-Dichlorobenzene	2	ND	200	ug/L	No	Chemical and industrial factories.
1,4-Dichlorobenzene	2	ND	5	ug/L	No	Chemical and industrial factories.
1,2-Dichloroethane	2	ND	5	ug/L	No	Industrial chemical factories.
1,1-Dichloroethylene (vinylidene chloride)	2	ND	14	ug/L	No	Industrial chemical factories.

Bowmanville DWS Table 9 continued

Parameter	Number	Results	MAC	Unit of	MAC	Potential Sources
	of	Range		Measure	Exceedance	
	Samples					
Dichloromethane	2	Non-	50	Microgram	No	Pharmaceutical and chemical
		Detect		per Litre		factories.
		(ND)		(ug/L)		
2,4-Dichlorophenol	2	ND	900	ug/L	No	Industrial contamination,
						reaction with chlorine.
2,4-Dichlorophenoxy acetic acid	2	ND	100	ug/L	No	Agricultural, residential
(2,4-D)						herbicide.
Diclofop-methyl	2	Non-	9	Microgram	No	Agricultural herbicide.
		Detect		per Litre		
		(ND)		(ug/L)		
Dimethoate	2	ND	20	ug/L	No	Agricultural, livestock,
						operation, residential
						insecticide.
Diquat	2	ND	70	ug/L	No	Agricultural, aquatic herbicide.
Diuron	2	ND - No	150	ug/L	No	Agricultural, industrial
Blaion	2	Result	100	ug/L		herbicide.
		(NR)				
Glyphosate	2	ND	280	ug/L	No	Agricultural, forestry,
				9		household herbicide.
Malathion	2	ND	190	ug/L	No	Pest control insecticide.
2-Methyl-4-chlorophenoxyacetic	2	ND	100	ug/L	No	Agricultural herbicide.
acid (MCPA)						
Metolachlor	2	ND	50	ug/L	No	Agricultural herbicide.
Metribuzin	2	ND	80	ug/L	No	Agricultural herbicide.

Bowmanville DWS Table 9 continued

Parameter	Number of Samples	Results Range	MAC	Unit of Measure	MAC Exceedance	Potential Sources
Monochlorobenzene	2	ND	80	ug/L	No	Industrial and agricultural chemical factories and dry cleaning facilities.
Paraquat	2	ND	10	ug/L	No	Agricultural, aquatic herbicide.
Pentachlorophenol	2	ND	60	ug/L	No	Pesticide, wood preservative residue.
Phorate	2	ND	2	ug/L	No	Agricultural insecticide.
Picloram	2	Non- Detect (ND)	190	Microgram per Litre (ug/L)	No	Industrial herbicide.
Polychlorinated Biphenyls(PCB)	2	ND	3	ug/L	No	Residue from various industrial uses.
Prometryne	2	ND	1	ug/L	No	Agricultural herbicide.
Simazine	2	ND	10	ug/L	No	Agricultural herbicide.
Terbufos	2	ND	1	ug/L	No	Agricultural insecticide.
Tetrachloroethylene (perchloroethylene)	2	ND	10	ug/L	No	Leaching from PVC pipes; discharge from factories; dry cleaners and auto shops (metal degreaser).
2,3,4,6 - Tetrachlorophenol	2	ND	100	ug/L	No	Wood preservative.
Triallate	2	ND - No Result (NR)	230	ug/L	No	Agricultural herbicide.
Trichloroethylene	2	ND	5	ug/L	No	Metal degreasing sites and other factories.

Bowmanville DWS Table 9 continued

Parameter	Number	Results	MAC	Unit of	MAC	Potential Sources
	of	Range		Measure	Exceedance	
	Samples					
2,4,6-Trichlorophenol	2	ND	5	ug/L	No	Pesticide manufacturing.
Trifluralin	2	ND	45	ug/L	No	Agricultural herbicide.
Vinyl Chloride	2	ND	1	ug/L	No	Leaching from PVC pipes; discharge from plastics factories.

Bowmanville DWS Table 10

Inorganic or Organic Parameter(s) that Exceed Half the Standard Prescribed in Schedule 2 of the Ontario Drinking Water Quality Standards.

Parameter	Result	MAC	Unit of Measure	Date of Sample
Trihalomethane - Distribution (annual average)	70.1	100	Micrograms per Litre (ug/L)	Annual average.
Total Haloacetic acids -Distribution (annual average)	46	80	ug/L	Annual average.
Lead (distribution)	0.0134	0.01	Milligrams per Litre (mg/L)	August 9
Lead (distribution)	0.109	0.01	Mg/L	August 9