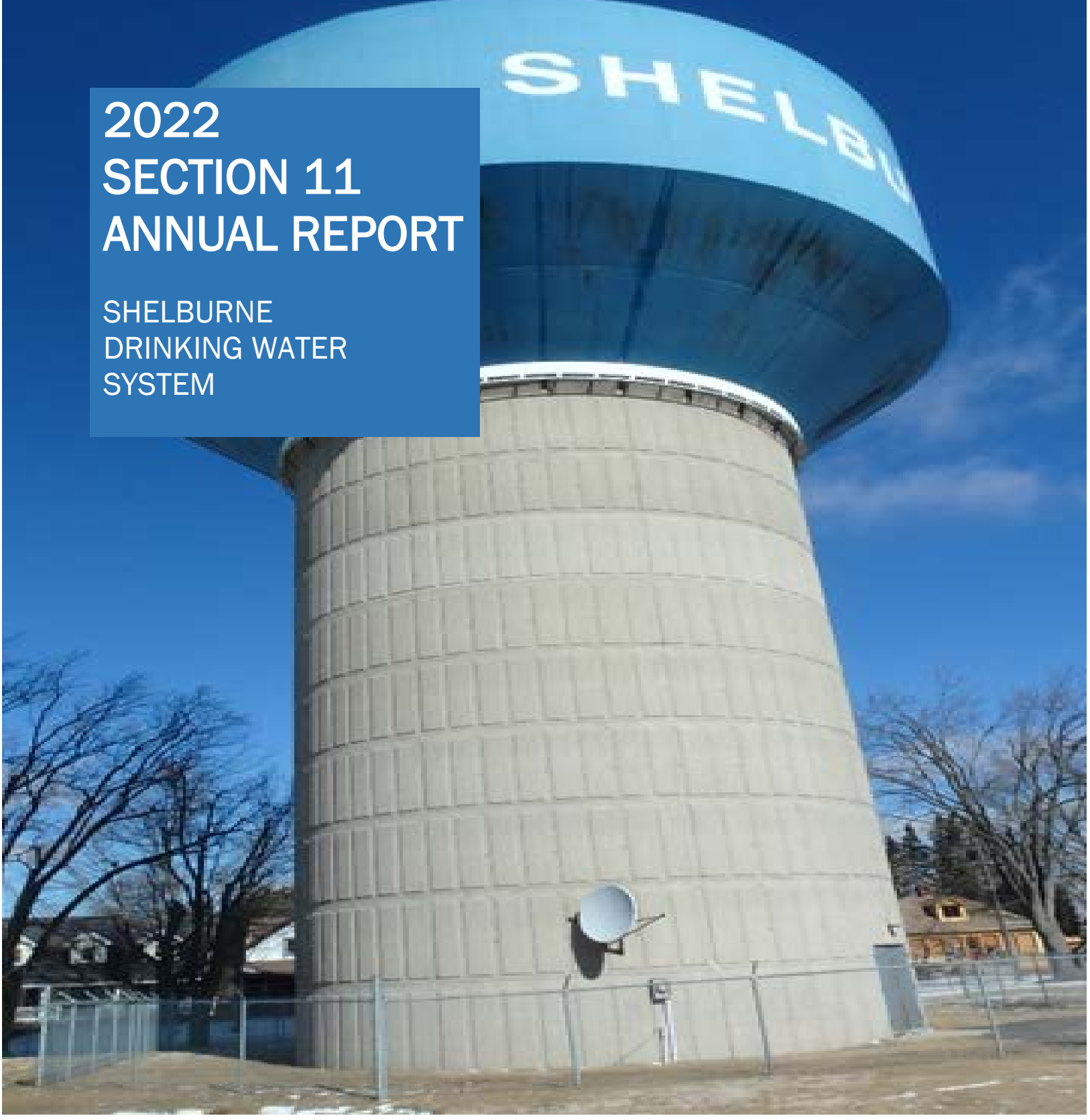

2022 SECTION 11 ANNUAL REPORT

SHELBURNE DRINKING WATER SYSTEM

For the period of
January 1st, 2022 to December 31st, 2022

Prepared for the Corporation of the Town of Shelburne by the Ontario Clean Water Agency

A People Place, A Change of Pace
SHELBURNE
ONTARIO, CANADA

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

This report was prepared in accordance with the requirements of *O.Reg 170/03, Section 11, Annual reports* for the following system and reporting period:

Drinking-Water System Number:	220004965
Drinking-Water System Name:	Shelburne Drinking Water System
Drinking-Water System Owner:	The Corporation of the Town of Shelburne
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2022 – December 31, 2022

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

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection *(O.Reg 170/03, Section 11.(6)(f)):*

- Town of Shelburne Office, 203 Main Street East, Shelburne, Ontario, L9V 3K7
- https://www.shelburne.ca/en/index.aspx

Note: this is required for large municipal residential systems or small municipal residential systems.

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

Drinking Water System Name	Drinking Water System Number
N/A	N/A

Did you provide a copy of your annual report to all Drinking Water System owners that are connected to you and to whom you provide all of its drinking water?

N/A

How system users are notified that the annual report is available, and is free of charge:

X	Public access/notice via the web
X	Public access/notice via Government Office
	Public access/notice via a newspaper
X	Public access/notice via Public Request
	Public access/notice via a Public Library
	Public access/notice via other method:

Describe your Drinking-Water System (O.Reg 170/03, Section 11.(6)(a)):

The Shelburne Drinking Water System is classified as a Large Municipal Drinking Water System, servicing an approximate population of 8,994 persons. The system is comprised of four pumphouses, including Well 1, 3, 5/6 and 7/8 Pumphouses which draw water from six production wells. The four pumphouses supply water through the distribution system and into the elevated storage reservoir (Water Tower.)

The raw water for Well 1 pumphouse is supplied from one drilled groundwater well (PW1), which is classified as a groundwater under direct influence (GUDI) well. The water pumped from the wells is treated with Waterworx (for iron sequesteration), UV and sodium hypochlorite (for primary and secondary disinfection). The treated water is stored in two chlorine contact tanks prior to entering the distribution system. Online equipment continuously monitors and records free chlorine residual and flowrates. This pumphouse is currently offline while rehabilitation and testing is being performed to bring the well back to its original flow rate. The pumphouse/ Well PW1 has been offline since January 2020.

The raw water for Well 3 pumphouse is supplied from one drilled groundwater wells (PW3). The water pumped from the wells is treated with Waterworx (for iron sequesteration) and sodium hypochlorite (for primary and secondary disinfection). The treated water is stored in a watermain on the property for purpose of providing minimum chlorine contact time prior to entering the distribution system. Online equipment continuously monitors and records free chlorine residual and flowrates. Well PW3 has been offline since April 2020, this pumphouse is undergoing upgrades with commissioning scheduled for 2023.

The raw water for Well 5/6 and 7/8 pumphouses is supplied from four drilled groundwater wells (PW5, PW6, PW7 and PW8). The water pumped from the wells is treated with Waterworx (for iron sequesteration) and sodium hypochlorite (for primary and secondary disinfection). The treated water for Well 5/6 is stored in a watermain on the property for the purpose of providing minimum chlorine contact time prior to entering blending building. The treated water for Well 7/8 is stored in a chlorine contact pipe, which is then discharged to the blending building located at Well 5/6 pumphouse. The treated/blended water from the blended building is then entered into the distribution system. Online equipment continuously monitors and records free chlorine residual and flowrates. The pumphouses are also equipped with standby power in the event of a power failure.

List of water treatment chemicals used by the system during the reporting period (O.Reg 170/03, Section 11.(6)(a)):

- Sodium Hypochlorite 12% Solution
- Waterworx 28% Solution

Significant expenses were incurred to:

	Install required equipment
X	Repair required equipment
X	Replace required equipment

☐ No significant expenses were incurred

Description of major expenses during the reporting period to install, repair or replace required equipment *(O.Reg 170/03, Section 11.(6)(e))*:

- Water Storage Tower Interior Inspection
- GammaX Pump Repair (2)
- Chemical Pump Replacement and Spare Head (Well 5)

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 (O.Reg 170/03, Section 11.(6)(b),(d):

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result & Unit	Summary of Reporting, Corrective Actions & Resolution
N/A	N/A	N/A	N/A

Table 1: Microbiological testing done under the Schedule 10 of Regulation 170/03 during this reporting period (O.Reg 170/03, Section 11.(6)(c)).

Location	Number of Samples	Range of E. Coli or Fecal Results		Range of Total Coliforms Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
Raw Water - Well PW1	0*	-	-	-	-	n/a	n/a	n/a
Raw Water - Well PW3	0*	-	-	-	-	n/a	n/a	n/a
Raw Water - Well PW5	52	0	0	0	0	n/a	n/a	n/a
Raw Water - Well PW6	52	0	0	0	0	n/a	n/a	n/a
Raw Water - Well PW7	52	0	0	0	0	n/a	n/a	n/a
Raw Water - Well PW8	52	0	0	0	0	n/a	n/a	n/a
Treated Water - Well PW1	0*	-	-	-	-	0*	-	-
Treated Water - Well PW3	0*	-	-	-	-	0*	-	-
Treated Water - Well PW5	52	0	0	0	0	52	0	4
Treated Water - Well PW6	52	0	0	0	0	52	0	4
Treated Water - Well PW7	52	0	0	0	0	52	0	7
Treated Water - Well PW8	52	0	0	0	0	52	0	1

Distribution Water[1A]	261	0	0	0	0	260	0	6

**Samples could not be collected as Well 1 was offline and Well 3 out of service for upgrades during the reporting period.*

Note: HPC = Heterotrophic Plate Count

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL

The number of people served by the system is 8,994.

[1A]As per O.Reg 170/03 Schedule 10-2.(a),(3) if the system serves 100,000 people or less, at least eight distribution samples, plus one additional distribution sample for every 1,000 people served by the system, are taken every month and at least 25% of the samples are tested for HPC

Table 2: Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report (O.Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Turbidity (NTU) - Raw Water - Well PW1	0*	-	-
Turbidity (NTU) - Raw Water - Well PW3	0*	-	-
Turbidity (NTU) - Raw Water - Well PW5	12	0.1	0.83
Turbidity (NTU) - Raw Water - Well PW6	12	0.09	0.87
Turbidity (NTU) - Raw Water - Well PW7	12	0.1	0.63
Turbidity (NTU) - Raw Water - Well PW8	12	0.09	0.61
Free Chlorine Residual, On-Line (mg/L) – Treated Well PW1	0*	-	-
Free Chlorine Residual, On-Line (mg/L) – Treated Well PW3	0*	-	-
Free Chlorine Residual, On-Line (mg/L) – Treated Well PW5	8760	0.39	3.10
Free Chlorine Residual, On-Line (mg/L) – Treated Well PW6	8760	0.34	2.26
Free Chlorine Residual, On-Line (mg/L) – Treated Well PW7	8760	0.80	2.12
Free Chlorine Residual, On-Line (mg/L) – Treated Well PW8	8760	0.67	2.35
Free Chlorine Residual, In-House (mg/L) - DW	365	0.92	1.37

Note: The number of samples used for continuous monitoring units is 8760.

**Well 1 offline and Well 3 out of service for upgrades during the reporting period.*

365 distribution samples required to be taken (one sample is taken on each day of the week)

Table 3: Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence (MDWL) or order (including OWRA) or other legal instrument. (O.Reg 170/03, Section 11.(6)(c))

Legal Instrument & Issue Date (yyyy/mm/dd)	**Sample Location & Parameter**	**Sampling Frequency**	**Sample Date** (yyyy/mm/dd)	**Sample Results**
MDWL 109-101, Issue 6 2021/05/31	Pumphouse PH 5/6 Arsenic[3A]	Quarterly	2022/01/04	TW5: 12.8 µg/L
			2022/04/19	TW5: 14.3 µg/L
			2022/07/05	TW5: 13.8 µg/L
			2022/10/04	TW5: 13.5 µg/L
			2022/01/04	TW6: 13.2 µg/L
			2022/04/19	TW6: 13.8 µg/L
			2022/07/05	TW6: 13.0 µg/L
			2022/10/04	TW6: 13.0 µg/L
	Pumphouse PH 7/8 Arsenic[3A]	Quarterly	2022/01/04	TW7: 0.6 µg/L
			2022/04/19	TW7: 0.6 µg/L
			2022/07/05	TW7: 0.5 µg/L
			2022/10/04	TW7: 0.7 µg/L
			2022/01/04	TW8: 0.4 µg/L
			2022/04/19	TW8: 0.5 µg/L
			2022/07/05	TW8: <0.2 µg/L
			2022/10/04	TW8: 1.2 µg/L
	Water Tower Arsenic[3A]	Quarterly	2022/01/04	2.3 µg/L
			2022/04/05	5.9 µg/L
			2022/07/05	5.3 µg/L
			2022/10/04	1.3 µg/L
	Blended Treated Water or Distribution Water (before first consumer) Arsenic	Quarterly	2022/01/04	TW Blended: 7.0 µg/L
			2022/04/05	TW Blended: 7.9 µg/L
			2022/07/05	TW Blended: 7.3 µg/L
			2022/10/04	TW Blended: 7.0 µg/L
			2022/01/04	TW 1st Service: 5.2 µg/L
			2022/04/05	TW 1st Service: 6.2 µg/L
			2022/07/05	TW 1st Service: 6.0 µg/L
			2022/10/04	TW 1st Service: 5.3 µg/L

[3A]As per MDWL Section 5.0 (Table 5) Arsenic is required on a quarterly basis at the monitoring location PH5/6, PH7/8, Water Tower and either a)blending building after mixing 5/6 and 7/8 water or, b)distribution system before first consumer. Quarterly samples at PH 5/6 and PH 7/8 are to determine arsenic concentrations prior to blending for operational and monitoring purposes (non-reportable). Quarterly samples at the Water Tower and Blending building or Distribution system prior to first consumer are to assess arsenic concentration in the drinking water sent to consumers and are considered to be treated water samples.

Table 4: Summary of Inorganic parameters tested during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c))

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Antimony: Sb (µg/L) - TW1	2021/07/20	<MDL 0.9	6.0	No
Antimony: Sb (µg/L) - TW3	2019/01/08	0.03	6.0	No
Antimony: Sb (µg/L) - TW5	2021/01/05	<MDL 0.9	6.0	No
Antimony: Sb (µg/L) - TW6	2021/01/05	<MDL 0.9	6.0	No
Antimony: Sb (µg/L) - TW7	2021/01/05	<MDL 0.9	6.0	No
Antimony: Sb (µg/L) - TW8	2021/01/05	<MDL 0.9	6.0	No
Arsenic: As (µg/L) - TW1	2021/07/20	19.1	10.0	Yes
Arsenic: As (µg/L) - TW3	2020/01/14	9.4	10.0	No
Arsenic: As (µg/L) - TW5	2021/01/05	12.1	10.0	Yes
Arsenic: As (µg/L) - TW6	2021/01/05	0.05	10.0	No
Arsenic: As (µg/L) - TW7	2021/01/05	0.07	10.0	No
Arsenic: As (µg/L) - TW8	2021/01/05	1.2	10.0	No
Barium: Ba (µg/L) - TW1	2021/07/20	115.0	1000.0	No
Barium: Ba (µg/L) - TW3	2019/01/08	130.0	1000.0	No
Barium: Ba (µg/L) - TW5	2021/01/05	107.0	1000.0	No
Barium: Ba (µg/L) - TW6	2021/01/05	106.0	1000.0	No
Barium: Ba (µg/L) - TW7	2021/01/05	17.0	1000.0	No
Barium: Ba (µg/L) - TW8	2021/01/05	16.7	1000.0	No
Boron: B (µg/L) - TW1	2021/07/20	20.0	5000.0	No
Boron: B (µg/L) - TW3	2019/01/08	29.0	5000.0	No
Boron: B (µg/L) - TW5	2021/01/05	29.0	5000.0	No
Boron: B (µg/L) - TW6	2021/01/05	28.0	5000.0	No
Boron: B (µg/L) - TW7	2021/01/05	7.0	5000.0	No
Boron: B (µg/L) - TW8	2021/01/05	6.0	5000.0	No
Cadmium: Cd (µg/L) - TW1	2021/07/20	0.036	5.0	No
Cadmium: Cd (µg/L) - TW3	2019/01/08	<MDL 0.003	5.0	No
Cadmium: Cd (µg/L) - TW5	2021/01/05	0.007	5.0	No
Cadmium: Cd (µg/L) - TW6	2021/01/05	<MDL 0.003	5.0	No
Cadmium: Cd (µg/L) - TW7	2021/01/05	0.023	5.0	No
Cadmium: Cd (µg/L) - TW8	2021/01/05	0.019	5.0	No
Chromium: Cr (µg/L) - TW1	2021/07/20	0.3	50.0	No
Chromium: Cr (µg/L) - TW3	2019/01/08	0.1	50.0	No
Chromium: Cr (µg/L) - TW5	2021/01/05	0.12	50.0	No
Chromium: Cr (µg/L) - TW6	2021/01/05	0.13	50.0	No
Chromium: Cr (µg/L) - TW7	2021/01/05	0.14	50.0	No
Chromium: Cr (µg/L) - TW8	2021/01/05	0.14	50.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Mercury: Hg (µg/L) - TW1	2021/07/20	<MDL 0.01	1.0	No
Mercury: Hg (µg/L) - TW3	2019/01/08	<MDL 0.01	1.0	No
Mercury: Hg (µg/L) - TW5	2021/01/05	<MDL 0.01	1.0	No
Mercury: Hg (µg/L) - TW6	2021/01/05	<MDL 0.01	1.0	No
Mercury: Hg (µg/L) - TW7	2021/01/05	<MDL 0.01	1.0	No
Mercury: Hg (µg/L) - TW8	2021/01/05	<MDL 0.01	1.0	No
Selenium: Se (µg/L) - TW1	2021/07/20	0.38	50.0	No
Selenium: Se (µg/L) - TW3	2019/01/08	<MDL 0.04	50.0	No
Selenium: Se (µg/L) - TW5	2021/01/05	<MDL 0.04	50.0	No
Selenium: Se (µg/L) - TW6	2021/01/05	<MDL 0.04	50.0	No
Selenium: Se (µg/L) - TW7	2021/01/05	0.64	50.0	No
Selenium: Se (µg/L) - TW8	2021/01/05	0.53	50.0	No
Uranium: U (µg/L) - TW1	2021/07/20	0.631	20.0	No
Uranium: U (µg/L) - TW3	2019/01/08	0.432	20.0	No
Uranium: U (µg/L) - TW5	2021/01/05	0.569	20.0	No
Uranium: U (µg/L) - TW6	2021/01/05	0.535	20.0	No
Uranium: U (µg/L) - TW7	2021/01/05	0.832	20.0	No
Uranium: U (µg/L) - TW8	2021/01/05	0.712	20.0	No
Additional Inorganics				
Fluoride (mg/L) - TW1	2018/02/14	1.05	1.5	No
Fluoride (mg/L) - TW3	2018/02/14	1.1	1.5	No
Fluoride (mg/L) - TW5	2018/02/14	1.2	1.5	No
Fluoride (mg/L) - TW6	2018/02/14	1.12	1.5	No
Fluoride (mg/L) - TW7	2018/02/14	0.16	1.5	No
Fluoride (mg/L) - TW8	2018/02/14	0.14	1.5	No
Nitrite (mg/L) - TW1	-	-	1.0	-
Nitrite (mg/L) - TW1	-	-	1.0	-
Nitrite (mg/L) - TW1	-	-	1.0	-
Nitrite (mg/L) - TW1	-	-	1.0	-
Nitrite (mg/L) - TW3	-	-	1.0	-
Nitrite (mg/L) - TW3	-	-	1.0	-
Nitrite (mg/L) - TW3	-	-	1.0	-
Nitrite (mg/L) - TW3	-	-	1.0	-
Nitrite (mg/L) - TW5	2022/01/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW5	2022/04/19	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW5	2022/07/05	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW5	2022/10/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW6	2022/01/04	<MDL 0.003	1.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Nitrite (mg/L) - TW6	2022/04/19	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW6	2022/07/05	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW6	2022/10/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW7	2022/01/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW7	2022/04/19	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW7	2022/07/05	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW7	2022/10/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW8	2022/01/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW8	2022/04/19	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW8	2022/07/05	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW8	2022/10/04	<MDL 0.003	1.0	No
Nitrate (mg/L) - TW1	-	-	10.0	-
Nitrate (mg/L) - TW1	-	-	10.0	-
Nitrate (mg/L) - TW1	-	-	10.0	-
Nitrate (mg/L) - TW1	-	-	10.0	-
Nitrate (mg/L) - TW3	-	-	10.0	-
Nitrate (mg/L) - TW3	-	-	10.0	-
Nitrate (mg/L) - TW3	-	-	10.0	-
Nitrate (mg/L) - TW3	-	-	10.0	-
Nitrate (mg/L) - TW5	2022/01/04	<MDL 0.006	10.0	No
Nitrate (mg/L) - TW5	2022/04/19	<MDL 0.006	10.0	No
Nitrate (mg/L) - TW5	2022/07/05	<MDL 0.006	10.0	No
Nitrate (mg/L) - TW5	2022/10/04	<MDL 0.006	10.0	No
Nitrate (mg/L) - TW6	2022/01/04	<MDL 0.006	10.0	No
Nitrate (mg/L) - TW6	2022/04/19	0.01	10.0	No
Nitrate (mg/L) - TW6	2022/07/05	<MDL 0.006	10.0	No
Nitrate (mg/L) - TW6	2022/10/04	<MDL 0.006	10.0	No
Nitrate (mg/L) - TW7	2022/01/04	1.51	10.0	No
Nitrate (mg/L) - TW7	2022/04/19	1.72	10.0	No
Nitrate (mg/L) - TW7	2022/07/05	1.63	10.0	No
Nitrate (mg/L) - TW7	2022/10/04	1.76	10.0	No
Nitrate (mg/L) - TW8	2022/01/04	2.08	10.0	No
Nitrate (mg/L) - TW8	2022/04/19	2.08	10.0	No
Nitrate (mg/L) - TW8	2022/07/05	2.37	10.0	No
Nitrate (mg/L) - TW8	2022/10/04	1.36	10.0	No

**Well 1 offline and Well 3 out of service for upgrades*

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) – TW1	2018/02/21[4B]	82.0	200	No	Yes[4C]
Sodium: Na (mg/L) – TW1	2018/02/22[4B]	105.0	200	No	Yes[4C]
Sodium: Na (mg/L) – TW3	2018/02/14[4B]	12.7	200	No	No
Sodium: Na (mg/L) – TW5	2018/02/14[4B]	11.9	200	No	No
Sodium: Na (mg/L) – TW6	2018/02/14[4B]	13.0	200	No	No
Sodium: Na (mg/L) – TW7	2018/02/14[4B]	2.11	200	No	No
Sodium: Na (mg/L) – TW8	2018/02/14[4B]	2.02	200	No	No

Note: MDL = Minimum Detection Limit, TW = Treated Water

Note: There is no regulatory Maximum Allowable Concentration (MAC) Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

[4A]Inorganic Parameters (Schedule 23) are required to be tested every 36 months for a large municipal residential system (O. Reg 170/03 Schedule 13-2.(1)). The last set of samples was collected and tested in 2021, the next set of samples is scheduled to be collected and tested in 2024. The Arsenic samples in Table 4 was collected as part of the requirements of O.Reg 170/03 Schedule 13-2.

[4B]Sodium is reportable every 60 months. Next set of sodium samples is scheduled to be collected in 2023.

[4C]Initial sample of sodium taken February 21, 2018 result 82 mg/L, was reported as AWQI 138776 with corrective actions of re-sampling. Re-sample was completed February 22, 2018 result 105 mg/L. Public Health distributed information on elevated sodium levels to the Town of Shelburne for Public Notice

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

Location/Type & Parameter	Number of Samples	Range of Results		Number of Lead Exceedances (MAC = 10 µ/L)
		Min.	Max.	
Period: January 1 to April 15				
Plumbing – Lead (µg/L) [5B]	N/A	N/A	N/A	0
Distribution – Lead (µg/L) [5C]	N/A	N/A	N/A	0
Distribution – Alkalinity (mg/L as $CaCO_3$)	3	220	226	N/A
Distribution – pH	3	7.03	7.41	N/A
Period: June 15 to October 15				
Plumbing – Lead (µg/L) [5B]	N/A	N/A	N/A	0
Distribution – Lead (µg/L) [5C]	N/A	N/A	N/A	0
Distribution – Alkalinity (mg/L as $CaCO_3$)	3	205	217	N/A
Distribution – pH	3	7.76	7.79	N/A
Period: December 15 to 31				
Plumbing – Lead (µg/L) [5B]	N/A	N/A	N/A	0

Distribution – Lead (µg/L) [5C]	N/A	N/A	N/A	0
Distribution – Alkalinity (mg/L as $CaCO_3$)	N/A	N/A	N/A	N/A
Distribution - pH	N/A	N/A	N/A	N/A

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system.

[5A]This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). The number of sampling points for the system is based on the population served by the system and therefore requires 3 distribution sampling points per sampling period.

[5B]Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).

[5C]Distribution lead samples are taken every 36 months. The next set of distribution lead samples is scheduled to be sampled during the winter period of December 15, 2022 to April 15, 2023 and summer period of June 15, 2023 to October 15, 2023.

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results *(O.Reg 170/03, Section 11.(6)(c)).*

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Alachlor (µg/L) - TW1	2021/07/20	<MDL 0.02	5.0	No
Alachlor (µg/L) - TW3	2019/01/08	<MDL 0.02	5.0	No
Alachlor (µg/L) - TW5	2021/01/05	<MDL 0.02	5.0	No
Alachlor (µg/L) - TW6	2021/01/05	<MDL 0.02	5.0	No
Alachlor (µg/L) - TW7	2021/01/05	<MDL 0.02	5.0	No
Alachlor (µg/L) - TW8	2021/01/05	<MDL 0.02	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW1	2021/07/20	<MDL 0.01	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW3	2019/01/08	<MDL 0.01	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW5	2021/01/05	<MDL 0.01	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW6	2021/01/05	<MDL 0.01	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW7	2021/01/05	<MDL 0.01	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW8	2021/01/05	<MDL 0.01	5.0	No
Azinphos-methyl (µg/L) - TW1	2021/07/20	<MDL 0.05	20.0	No
Azinphos-methyl (µg/L) - TW3	2019/01/08	<MDL 0.05	20.0	No
Azinphos-methyl (µg/L) - TW5	2021/01/05	<MDL 0.05	20.0	No
Azinphos-methyl (µg/L) - TW6	2021/01/05	<MDL 0.05	20.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Azinphos-methyl (µg/L) - TW7	2021/01/05	<MDL 0.05	20.0	No
Azinphos-methyl (µg/L) - TW8	2021/01/05	<MDL 0.05	20.0	No
Benzene (µg/L) - TW1	2021/07/20	<MDL 0.32	1.0	No
Benzene (µg/L) - TW3	2019/01/08	<MDL 0.32	1.0	No
Benzene (µg/L) - TW5	2021/01/05	<MDL 0.32	1.0	No
Benzene (µg/L) - TW6	2021/01/05	<MDL 0.32	1.0	No
Benzene (µg/L) - TW7	2021/01/05	<MDL 0.32	1.0	No
Benzene (µg/L) - TW8	2021/01/05	<MDL 0.32	1.0	No
Benzo(a)pyrene (µg/L) - TW1	2021/07/20	<MDL 0.004	0.01	No
Benzo(a)pyrene (µg/L) - TW3	2019/01/08	<MDL 0.004	0.01	No
Benzo(a)pyrene (µg/L) - TW5	2021/01/05	<MDL 0.004	0.01	No
Benzo(a)pyrene (µg/L) - TW6	2021/01/05	<MDL 0.004	0.01	No
Benzo(a)pyrene (µg/L) - TW7	2021/01/05	<MDL 0.004	0.01	No
Benzo(a)pyrene (µg/L) - TW8	2021/01/05	<MDL 0.004	0.01	No
Bromoxynil (µg/L) - TW1	2021/07/20	<MDL 0.33	5.0	No
Bromoxynil (µg/L) - TW3	2019/01/08	<MDL 0.33	5.0	No
Bromoxynil (µg/L) - TW5	2021/01/05	<MDL 0.33	5.0	No
Bromoxynil (µg/L) - TW6	2021/01/05	<MDL 0.33	5.0	No
Bromoxynil (µg/L) - TW7	2021/01/05	<MDL 0.33	5.0	No
Bromoxynil (µg/L) - TW8	2021/01/05	<MDL 0.33	5.0	No
Carbaryl (µg/L) - TW1	2021/07/20	<MDL 0.05	90.0	No
Carbaryl (µg/L) - TW3	2019/01/08	<MDL 0.05	90.0	No
Carbaryl (µg/L) - TW5	2021/01/05	<MDL 0.05	90.0	No
Carbaryl (µg/L) - TW6	2021/01/05	<MDL 0.05	90.0	No
Carbaryl (µg/L) - TW7	2021/01/05	<MDL 0.05	90.0	No
Carbaryl (µg/L) - TW8	2021/01/05	<MDL 0.05	90.0	No
Carbofuran (µg/L) - TW1	2021/07/20	<MDL 0.01	90.0	No
Carbofuran (µg/L) - TW3	2019/01/08	<MDL 0.01	90.0	No
Carbofuran (µg/L) - TW5	2021/01/05	<MDL 0.01	90.0	No
Carbofuran (µg/L) - TW6	2021/01/05	<MDL 0.01	90.0	No
Carbofuran (µg/L) - TW7	2021/01/05	<MDL 0.01	90.0	No
Carbofuran (µg/L) - TW8	2021/01/05	<MDL 0.01	90.0	No
Carbon Tetrachloride (µg/L) - TW1	2021/07/20	<MDL 0.17	2.0	No
Carbon Tetrachloride (µg/L) - TW3	2019/01/08	<MDL 0.16	2.0	No
Carbon Tetrachloride (µg/L) - TW5	2021/01/05	<MDL 0.17	2.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Carbon Tetrachloride (µg/L) - TW6	2021/01/05	<MDL 0.17	2.0	No
Carbon Tetrachloride (µg/L) - TW7	2021/01/05	<MDL 0.17	2.0	No
Carbon Tetrachloride (µg/L) - TW8	2021/01/05	<MDL 0.17	2.0	No
Chlorpyrifos (µg/L) - TW1	2021/07/20	<MDL 0.02	90.0	No
Chlorpyrifos (µg/L) - TW3	2019/01/08	<MDL 0.02	90.0	No
Chlorpyrifos (µg/L) - TW5	2021/01/05	<MDL 0.02	90.0	No
Chlorpyrifos (µg/L) - TW6	2021/01/05	<MDL 0.02	90.0	No
Chlorpyrifos (µg/L) - TW7	2021/01/05	<MDL 0.02	90.0	No
Chlorpyrifos (µg/L) - TW8	2021/01/05	<MDL 0.02	90.0	No
Diazinon (µg/L) - TW1	2021/07/20	<MDL 0.02	20.0	No
Diazinon (µg/L) - TW3	2019/01/08	<MDL 0.02	20.0	No
Diazinon (µg/L) - TW5	2021/01/05	<MDL 0.02	20.0	No
Diazinon (µg/L) - TW6	2021/01/05	<MDL 0.02	20.0	No
Diazinon (µg/L) - TW7	2021/01/05	<MDL 0.02	20.0	No
Diazinon (µg/L) - TW8	2021/01/05	<MDL 0.02	20.0	No
Dicamba (µg/L) - TW1	2021/07/20	<MDL 0.2	120.0	No
Dicamba (µg/L) - TW3	2019/01/08	<MDL 0.2	120.0	No
Dicamba (µg/L) - TW5	2021/01/05	<MDL 0.2	120.0	No
Dicamba (µg/L) - TW6	2021/01/05	<MDL 0.2	120.0	No
Dicamba (µg/L) - TW7	2021/01/05	<MDL 0.2	120.0	No
Dicamba (µg/L) - TW8	2021/01/05	<MDL 0.2	120.0	No
1,2-Dichlorobenzene (µg/L) - TW1	2021/07/20	<MDL 0.41	200.0	No
1,2-Dichlorobenzene (µg/L) - TW3	2019/01/08	<MDL 0.41	200.0	No
1,2-Dichlorobenzene (µg/L) - TW5	2021/01/05	<MDL 0.41	200.0	No
1,2-Dichlorobenzene (µg/L) - TW6	2021/01/05	<MDL 0.41	200.0	No
1,2-Dichlorobenzene (µg/L) - TW7	2021/01/05	<MDL 0.41	200.0	No
1,2-Dichlorobenzene (µg/L) - TW8	2021/01/05	<MDL 0.41	200.0	No
1,4-Dichlorobenzene (µg/L) - TW1	2021/07/20	<MDL 0.36	5.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
1,4-Dichlorobenzene (µg/L) - TW3	2019/01/08	<MDL 0.36	5.0	No
1,4-Dichlorobenzene (µg/L) - TW5	2021/01/05	<MDL 0.36	5.0	No
1,4-Dichlorobenzene (µg/L) - TW6	2021/01/05	<MDL 0.36	5.0	No
1,4-Dichlorobenzene (µg/L) - TW7	2021/01/05	<MDL 0.36	5.0	No
1,4-Dichlorobenzene (µg/L) - TW8	2021/01/05	<MDL 0.36	5.0	No
1,2-Dichloroethane (µg/L) - TW1	2021/07/20	<MDL 0.35	5.0	No
1,2-Dichloroethane (µg/L) - TW3	2019/01/08	<MDL 0.35	5.0	No
1,2-Dichloroethane (µg/L) - TW5	2021/01/05	<MDL 0.35	5.0	No
1,2-Dichloroethane (µg/L) - TW6	2021/01/05	<MDL 0.35	5.0	No
1,2-Dichloroethane (µg/L) - TW7	2021/01/05	<MDL 0.35	5.0	No
1,2-Dichloroethane (µg/L) - TW8	2021/01/05	<MDL 0.35	5.0	No
1,1-Dichloroethylene (µg/L) - TW1	2021/07/20	<MDL 0.33	14.0	No
1,1-Dichloroethylene (µg/L) - TW3	2019/01/08	<MDL 0.33	14.0	No
1,1-Dichloroethylene (µg/L) - TW5	2021/01/05	<MDL 0.33	14.0	No
1,1-Dichloroethylene (µg/L) - TW6	2021/01/05	<MDL 0.33	14.0	No
1,1-Dichloroethylene (µg/L) - TW7	2021/01/05	<MDL 0.33	14.0	No
1,1-Dichloroethylene (µg/L) - TW8	2021/01/05	<MDL 0.33	14.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW1	2021/07/20	<MDL 0.35	50.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW3	2019/01/08	<MDL 0.35	50.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Dichloromethane (Methylene Chloride) (µg/L) - TW5	2021/01/05	<MDL 0.35	50.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW6	2021/01/05	<MDL 0.35	50.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW7	2021/01/05	<MDL 0.35	50.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW8	2021/01/05	<MDL 0.35	50.0	No
2,4-Dichlorophenol (µg/L) - TW1	2021/07/20	<MDL 0.15	900.0	No
2,4-Dichlorophenol (µg/L) - TW3	2019/01/08	<MDL 0.15	900.0	No
2,4-Dichlorophenol (µg/L) - TW5	2021/01/05	<MDL 0.15	900.0	No
2,4-Dichlorophenol (µg/L) - TW6	2021/01/05	<MDL 0.15	900.0	No
2,4-Dichlorophenol (µg/L) - TW7	2021/01/05	<MDL 0.15	900.0	No
2,4-Dichlorophenol (µg/L) - TW8	2021/01/05	<MDL 0.15	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW1	2021/07/20	<MDL 0.19	100.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW3	2019/01/08	<MDL 0.19	100.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW5	2021/01/05	<MDL 0.19	100.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW6	2021/01/05	<MDL 0.19	100.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW7	2021/01/05	<MDL 0.19	100.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW8	2021/01/05	<MDL 0.19	100.0	No
Diclofop-methyl (µg/L) - TW1	2021/07/20	<MDL 0.4	9.0	No
Diclofop-methyl (µg/L) - TW3	2019/01/08	<MDL 0.4	9.0	No
Diclofop-methyl (µg/L) - TW5	2021/01/05	<MDL 0.4	9.0	No
Diclofop-methyl (µg/L) - TW6	2021/01/05	<MDL 0.4	9.0	No
Diclofop-methyl (µg/L) - TW7	2021/01/05	<MDL 0.4	9.0	No
Diclofop-methyl (µg/L) - TW8	2021/01/05	<MDL 0.4	9.0	No
Dimethoate (µg/L) - TW1	2021/07/20	<MDL 0.06	20.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Dimethoate (µg/L) - TW3	2019/01/08	<MDL 0.06	20.0	No
Dimethoate (µg/L) - TW5	2021/01/05	<MDL 0.06	20.0	No
Dimethoate (µg/L) - TW6	2021/01/05	<MDL 0.06	20.0	No
Dimethoate (µg/L) - TW7	2021/01/05	<MDL 0.06	20.0	No
Dimethoate (µg/L) - TW8	2021/01/05	<MDL 0.06	20.0	No
Diquat (µg/L) - TW1	2021/07/20	<MDL 1.0	70.0	No
Diquat (µg/L) - TW3	2019/01/08	<MDL 1.0	70.0	No
Diquat (µg/L) - TW5	2021/01/05	<MDL 1.0	70.0	No
Diquat (µg/L) - TW6	2021/01/05	<MDL 1.0	70.0	No
Diquat (µg/L) - TW7	2021/01/05	<MDL 1.0	70.0	No
Diquat (µg/L) - TW8	2021/01/05	<MDL 1.0	70.0	No
Diuron (µg/L) - TW1	2021/07/20	<MDL 0.03	150.0	No
Diuron (µg/L) - TW3	2019/01/08	<MDL 0.03	150.0	No
Diuron (µg/L) - TW5	2021/01/05	<MDL 0.03	150.0	No
Diuron (µg/L) - TW6	2021/01/05	<MDL 0.03	150.0	No
Diuron (µg/L) - TW7	2021/01/05	<MDL 0.03	150.0	No
Diuron (µg/L) - TW8	2021/01/05	<MDL 0.03	150.0	No
Glyphosate (µg/L) - TW1	2021/07/20	<MDL 1.0	280.0	No
Glyphosate (µg/L) - TW3	2019/01/08	<MDL 1.0	280.0	No
Glyphosate (µg/L) - TW5	2021/01/05	<MDL 1.0	280.0	No
Glyphosate (µg/L) - TW6	2021/01/05	<MDL 1.0	280.0	No
Glyphosate (µg/L) - TW7	2021/01/05	<MDL 1.0	280.0	No
Glyphosate (µg/L) - TW8	2021/01/05	<MDL 1.0	280.0	No
Malathion (µg/L) - TW1	2021/07/20	<MDL 0.02	190.0	No
Malathion (µg/L) - TW3	2019/01/08	<MDL 0.02	190.0	No
Malathion (µg/L) - TW5	2021/01/05	<MDL 0.02	190.0	No
Malathion (µg/L) - TW6	2021/01/05	<MDL 0.02	190.0	No
Malathion (µg/L) - TW7	2021/01/05	<MDL 0.02	190.0	No
Malathion (µg/L) - TW8	2021/01/05	<MDL 0.02	190.0	No
Metolachlor (µg/L) - TW1	2021/07/20	<MDL 0.01	50.0	No
Metolachlor (µg/L) - TW3	2019/01/08	<MDL 0.01	50.0	No
Metolachlor (µg/L) - TW5	2021/01/05	<MDL 0.01	50.0	No
Metolachlor (µg/L) - TW6	2021/01/05	<MDL 0.01	50.0	No
Metolachlor (µg/L) - TW7	2021/01/05	<MDL 0.01	50.0	No
Metolachlor (µg/L) - TW8	2021/01/05	<MDL 0.01	50.0	No
Metribuzin (µg/L) - TW1	2021/07/20	<MDL 0.02	80.0	No
Metribuzin (µg/L) - TW3	2019/01/08	<MDL 0.02	80.0	No
Metribuzin (µg/L) - TW5	2021/01/05	<MDL 0.02	80.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Metribuzin (µg/L) - TW6	2021/01/05	<MDL 0.02	80.0	No
Metribuzin (µg/L) - TW7	2021/01/05	<MDL 0.02	80.0	No
Metribuzin (µg/L) - TW8	2021/01/05	<MDL 0.02	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW1	2021/07/20	<MDL 0.3	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW3	2019/01/08	<MDL 0.3	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW5	2021/01/05	<MDL 0.3	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW6	2021/01/05	<MDL 0.3	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW7	2021/01/05	<MDL 0.3	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW8	2021/01/05	<MDL 0.3	80.0	No
Paraquat (µg/L) - TW1	2021/07/20	<MDL 1.0	10.0	No
Paraquat (µg/L) - TW3	2019/01/08	<MDL 1.0	10.0	No
Paraquat (µg/L) - TW5	2021/01/05	<MDL 1.0	10.0	No
Paraquat (µg/L) - TW6	2021/01/05	<MDL 1.0	10.0	No
Paraquat (µg/L) - TW7	2021/01/05	<MDL 1.0	10.0	No
Paraquat (µg/L) - TW8	2021/01/05	<MDL 1.0	10.0	No
PCB (µg/L) - TW1	2021/07/20	<MDL 0.04	3.0	No
PCB (µg/L) - TW3	2019/01/08	<MDL 0.04	3.0	No
PCB (µg/L) - TW5	2021/01/05	<MDL 0.04	3.0	No
PCB (µg/L) - TW6	2021/01/05	<MDL 0.04	3.0	No
PCB (µg/L) - TW7	2021/01/05	<MDL 0.04	3.0	No
PCB (µg/L) - TW8	2021/01/05	<MDL 0.04	3.0	No
Pentachlorophenol (µg/L) - TW1	2021/07/20	<MDL 0.15	60.0	No
Pentachlorophenol (µg/L) - TW3	2019/01/08	<MDL 0.15	60.0	No
Pentachlorophenol (µg/L) - TW5	2021/01/05	<MDL 0.15	60.0	No
Pentachlorophenol (µg/L) - TW6	2021/01/05	<MDL 0.15	60.0	No
Pentachlorophenol (µg/L) - TW7	2021/01/05	<MDL 0.15	60.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Pentachlorophenol (µg/L) - TW8	2021/01/05	<MDL 0.15	60.0	No
Phorate (µg/L) - TW1	2021/07/20	<MDL 0.01	2.0	No
Phorate (µg/L) - TW3	2019/01/08	<MDL 0.01	2.0	No
Phorate (µg/L) - TW5	2021/01/05	<MDL 0.01	2.0	No
Phorate (µg/L) - TW6	2021/01/05	<MDL 0.01	2.0	No
Phorate (µg/L) - TW7	2021/01/05	<MDL 0.01	2.0	No
Phorate (µg/L) - TW8	2021/01/05	<MDL 0.01	2.0	No
Picloram (µg/L) - TW1	2021/07/20	<MDL 1.0	190.0	No
Picloram (µg/L) - TW3	2019/01/08	<MDL 1.0	190.0	No
Picloram (µg/L) - TW5	2021/01/05	<MDL 1.0	190.0	No
Picloram (µg/L) - TW6	2021/01/05	<MDL 1.0	190.0	No
Picloram (µg/L) - TW7	2021/01/05	<MDL 1.0	190.0	No
Picloram (µg/L) - TW8	2021/01/05	<MDL 1.0	190.0	No
Prometryne (µg/L) - TW1	2021/07/20	<MDL 0.03	1.0	No
Prometryne (µg/L) - TW3	2019/01/08	<MDL 0.03	1.0	No
Prometryne (µg/L) - TW5	2021/01/05	<MDL 0.03	1.0	No
Prometryne (µg/L) - TW6	2021/01/05	<MDL 0.03	1.0	No
Prometryne (µg/L) - TW7	2021/01/05	<MDL 0.03	1.0	No
Prometryne (µg/L) - TW8	2021/01/05	<MDL 0.03	1.0	No
Simazine (µg/L) - TW1	2021/07/20	<MDL 0.01	10.0	No
Simazine (µg/L) - TW3	2019/01/08	<MDL 0.01	10.0	No
Simazine (µg/L) - TW5	2021/01/05	<MDL 0.01	10.0	No
Simazine (µg/L) - TW6	2021/01/05	<MDL 0.01	10.0	No
Simazine (µg/L) - TW7	2021/01/05	<MDL 0.01	10.0	No
Simazine (µg/L) - TW8	2021/01/05	<MDL 0.01	10.0	No
Terbufos (µg/L) - TW1	2021/07/20	<MDL 0.01	1.0	No
Terbufos (µg/L) - TW3	2019/01/08	<MDL 0.01	1.0	No
Terbufos (µg/L) - TW5	2021/01/05	<MDL 0.01	1.0	No
Terbufos (µg/L) - TW6	2021/01/05	<MDL 0.01	1.0	No
Terbufos (µg/L) - TW7	2021/01/05	<MDL 0.01	1.0	No
Terbufos (µg/L) - TW8	2021/01/05	<MDL 0.01	1.0	No
Tetrachloroethylene (µg/L) - TW1	2021/07/20	<MDL 0.35	10.0	No
Tetrachloroethylene (µg/L) - TW3	2019/01/08	<MDL 0.35	10.0	No
Tetrachloroethylene (µg/L) - TW5	2021/01/05	<MDL 0.35	10.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Tetrachloroethylene (µg/L) - TW6	2021/01/05	<MDL 0.35	10.0	No
Tetrachloroethylene (µg/L) - TW7	2021/01/05	<MDL 0.35	10.0	No
Tetrachloroethylene (µg/L) - TW8	2021/01/05	<MDL 0.35	10.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW1	2021/07/20	<MDL 0.2	100.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW3	2019/01/08	<MDL 0.2	100.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW5	2021/01/05	<MDL 0.2	100.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW6	2021/01/05	<MDL 0.2	100.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW7	2021/01/05	<MDL 0.2	100.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW8	2021/01/05	<MDL 0.2	100.0	No
Triallate (µg/L) - TW1	2021/07/20	<MDL 0.01	230.0	No
Triallate (µg/L) - TW3	2019/01/08	<MDL 0.01	230.0	No
Triallate (µg/L) - TW5	2021/01/05	<MDL 0.01	230.0	No
Triallate (µg/L) - TW6	2021/01/05	<MDL 0.01	230.0	No
Triallate (µg/L) - TW7	2021/01/05	<MDL 0.01	230.0	No
Triallate (µg/L) - TW8	2021/01/05	<MDL 0.01	230.0	No
Trichloroethylene (µg/L) - TW1	2021/07/20	<MDL 0.44	5.0	No
Trichloroethylene (µg/L) - TW3	2019/01/08	<MDL 0.44	5.0	No
Trichloroethylene (µg/L) - TW5	2021/01/05	<MDL 0.44	5.0	No
Trichloroethylene (µg/L) - TW6	2021/01/05	<MDL 0.44	5.0	No
Trichloroethylene (µg/L) - TW7	2021/01/05	<MDL 0.44	5.0	No
Trichloroethylene (µg/L) - TW8	2021/01/05	<MDL 0.44	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW1	2021/07/20	<MDL 0.25	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW3	2019/01/08	<MDL 0.25	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW5	2021/01/05	<MDL 0.25	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW6	2021/01/05	<MDL 0.25	5.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
2,4,6-Trichlorophenol (µg/L) - TW7	2021/01/05	<MDL 0.25	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW8	2021/01/05	<MDL 0.25	5.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW1	2021/07/20	<MDL 0.12	100.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW3	2019/01/08	<MDL 0.12	100.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW5	2021/01/05	<MDL 0.12	100.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW6	2021/01/05	<MDL 0.12	100.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW7	2021/01/05	<MDL 0.12	100.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW8	2021/01/05	<MDL 0.12	100.0	No
Trifluralin (µg/L) - TW1	2021/07/20	<MDL 0.02	45.0	No
Trifluralin (µg/L) - TW3	2019/01/08	<MDL 0.02	45.0	No
Trifluralin (µg/L) - TW5	2021/01/05	<MDL 0.02	45.0	No
Trifluralin (µg/L) - TW6	2021/01/05	<MDL 0.02	45.0	No
Trifluralin (µg/L) - TW7	2021/01/05	<MDL 0.02	45.0	No
Trifluralin (µg/L) - TW8	2021/01/05	<MDL 0.02	45.0	No
Vinyl Chloride (µg/L) - TW1	2021/07/20	<MDL 0.17	1.0	No
Vinyl Chloride (µg/L) - TW3	2019/01/08	<MDL 0.17	1.0	No
Vinyl Chloride (µg/L) - TW5	2021/01/05	<MDL 0.17	1.0	No
Vinyl Chloride (µg/L) - TW6	2021/01/05	<MDL 0.17	1.0	No
Vinyl Chloride (µg/L) - TW7	2021/01/05	<MDL 0.17	1.0	No
Vinyl Chloride (µg/L) - TW8	2021/01/05	<MDL 0.17	1.0	No
Trihalomethane: Total (µg/L) Annual Average - DW1	2022 Quarterly	2.367	100.0	No
Trihalomethane: Total (µg/L) Annual Average - DW2	2022 Quarterly	1.344	100.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
HAA Total (µg/L) Annual Average - DW1	2022 Quarterly	5.3	80.0	No
HAA Total (µg/L) Annual Average - DW2	2022 Quarterly	5.3	80.0	No

Note: TW = Treated Water, DW = Distribution Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration, HAA = Haloacetic Acids

[6A]Organic Parameters (Schedule 24) are required to be tested every 36 months for a large municipal residential system (O. Reg 170/03 Schedule 13-4.(1)). The last set of samples was collected and tested in 2021, the next set of samples is scheduled to be collected and tested in 2024.

Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
Pumphouse PH 5/6 Arsenic[7A]	2022/01/04	TW5: 12.8 µg/L
	2022/04/19	TW5: 14.3 µg/L
	2022/07/05	TW5: 13.8 µg/L
	2022/10/04	TW5: 13.5 µg/L
	2022/01/04	TW6: 13.2 µg/L
	2022/04/19	TW6: 13.8 µg/L
	2022/07/05	TW6: 13.0 µg/L
	2022/10/04	TW6: 13.0 µg/L
Water Tower Arsenic[7A]	2022/04/05	5.9 µg/L
	2022/07/05	5.3 µg/L
Blended Treated Water or Distribution Water (before first consumer) Arsenic	2022/01/04	TW Blended: 7.0 µg/L
	2022/04/05	TW Blended: 7.9 µg/L
	2022/07/05	TW Blended: 7.3 µg/L
	2022/10/04	TW Blended: 7.0 µg/L
	2022/01/04	TW 1st Service: 5.2 µg/L
	2022/04/05	TW 1st Service: 6.2 µg/L
	2022/07/05	TW 1st Service: 6.0 µg/L
	2022/10/04	TW 1st Service: 5.3 µg/L

[7A]As per MDWL Section 5.0 (Table 5) Arsenic is required on a quarterly basis at the monitoring location PH5/6, PH7/8, Water Tower and either a)blending building after mixing 5/6 and 7/8 water or, b)distribution system before first consumer. Quarterly samples at PH 5/6 and PH 7/8 are to determine arsenic concentrations prior to blending for operational and monitoring purposes (non-reportable). Quarterly samples at the Water Tower and Blending building or Distribution system prior to first consumer are to assess arsenic concentration in the drinking water sent to consumers and are considered to be treated water samples.