2025 ANNUAL DRINKING WATER SYSTEM REPORT

Simcoe Drinking Water System

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2025 Annual Drinking Water System Report

Simcoe Drinking Water System

1. Introduction

The Corporation of Norfolk County has prepared this report to satisfy the requirements of Section 11 of Ontario Regulation (O. Reg.) 170/03. This Annual Report must be prepared no later than February 28th of each year.

This report covers the period from January 1st, 2025 to December 31st, 2025, and the information provided complies with the reporting requirements of Section 11 of O. Reg. 170/03.

A summary of Simcoe's Municipal Drinking Water System is outlined below:

Drinking Water System Number: 220000371

Drinking Water System Name: Simcoe Drinking Water System

Drinking Water System Owner: Corporation of Norfolk County

Drinking Water System Category: Large Municipal Residential

2. Reporting Requirements under O. Reg. 170/03 – Section 11

As required by Section 11 Annual reports, this report includes the following information for the reporting period noted above:

- A brief description of the drinking water system, including a list of water treatment chemicals used by the system;
- A summary of any reports made to the Ministry of Environment, Conservation and Parks (MECP) for Adverse Water Quality Incidents (AWQI's);
- A summary of the results of tests required under O. Reg. 170/03, an approval, the municipal drinking water licence (MDWL) or an order, including an Ontario Water Resources Act (OWRA) order;
- A description of any corrective actions taken;
- A description of any major expenses incurred to install, repair or replace required equipment;

- A statement of where a report prepared under Schedule 22 (Drinking Water Summary Report) will be available for inspection by any member of the public during normal business hours without charge; and
- A summary of Schedule 15.1 Lead sampling details.

3. Evidence of Compliance

Availability of the Annual Report

In accordance with O. Reg. 170/03 – Section 11, a copy of the Annual Report for each drinking water system will be posted, by the end of February each year, on the Norfolk County website at norfolkcounty.ca.

A Summary Report on regulatory compliance and system capability is also required annually under Schedule 22 of O. Reg. 170/03. This report summarizes any known failures, duration and corrective measures taken to meet the requirements of the Safe Drinking Water Act (SDWA), regulations, the system's approval, drinking water works permit (DWWP), municipal drinking water licence (MDWL), and any order applicable. The Summary Report is presented to Norfolk County Council for acceptance before March 31st of each year. The Summary report is made available to the public in April on the Norfolk County website noted above or by request from the Environmental Services.

Copies of the Summary Report and Annual Reports for each drinking water system are available to the public, free of charge, at the following location:

Gilbertson Administration Building

12 Gilbertson Drive, Simcoe, Ontario, N3Y 4N5

Hours: Monday to Friday, 8:30 a.m. to 4:30 p.m.

Description of the Municipal Drinking Water System

The Simcoe Drinking Water System (Simcoe DWS) supplies drinking water to the Community of Simcoe. The Simcoe DWS currently serves a population of approximately 16,100.

The Cedar Street Well Field is located at 396 Cedar Street and consists of five wells, an infiltration gallery, a reservoir and a booster pumping station.

The Northwest well supply is located on Fourteenth Street and consists of two groundwater wells, an iron and manganese removal plant and a reservoir.

The Chapel Street Well is located at 260 Chapel Street.

The water distribution system includes a 3,400m^3 elevated storage tank, which acts as a reservoir when the system requires larger amounts of water than the wells can supply (such as firefighting and peak flows) and helps to maintain a constant system pressure. There are approximately 570 fire hydrants and approximately 111,507m of water main and transmission main ranging in size from 150mm to 400mm in diameter. The piping material consists of cast iron, Polyvinyl Chloride (PVC), asbestos cement, High Density Polyethylene (HDPE) and ductile iron pipe.

Water Treatment Chemicals

The following water treatment chemicals were used during the reporting period:

- Sodium Hypochlorite
- Sodium Silicate
- Hydrofluorosilicic Acid
- Poly Aluminum Chloride
- Sodium Permanganate

Significant Expenses Incurred

A brief summary of the major expenses incurred during the reporting period to install, repair or replace required equipment, and value of each, is included in Table 1.

Table 1 – Summary of Expenses Incurred

Activity	Cost Incurred (2025)
General Operations Maintenance and Repair in Water Treatment Plants and Distribution System	$306,059.09
Well Generator Upgrades	$97,462.71
Well Rehabilitations	$156,692.62
Replacement of Watermains	$612,739.93

4. Microbiological Sampling and Testing

E. coli and Total Coliform

As per Schedule 10 Microbiological Sampling and Testing, of O. Reg. 170/03, sampling and analysis for *E. coli* and total coliforms was conducted weekly on the raw and treated

water at the facilities and in the distribution system. The results from the 2025 sampling program for the Simcoe DWS are shown in the table below.

Table 2 – *E. coli* and Total Coliform Sampling Results

Location	Number of Samples	Range of *E. coli* Results (cfu/100mL)	Range of Total Coliform Results (cfu/100mL)
Cedar St Well #1 - raw	0	Out of Service	Out of Service
Cedar St Well #2 - raw	52	0 – 0	0 – 0
Cedar St Well #3 - raw	48	0 – 0	0 – 0
Cedar St Well #4 - raw	50	0 – 0	0 – 1
Cedar St Well #5 - raw	49	0 – 5	0 – 9
Infiltration Gallery	52	0 – 280	0 – 290
Chapel St Well – raw	52	0 – 0	0 – 1
NW Well #2 – raw	47	0 – 0	0 – 1
NW Well #3 – raw	52	0 – 0	0 – 0
Cedar St Reservoir – POE	52	0 – 0	0 – 0
Chapel St Well – POE	52	0 – 0	0 – 0
NW Reservoir – POE	52	0 – 0	0 – 0
Distribution System	377	0 – 0	0 – 0

Heterotrophic Plate Count (HPC)

As per Schedule 10 Microbiological Sampling and Testing, of O. Reg. 170/03, sampling and analysis for HPC was conducted weekly on the raw and treated water at the facilities and on 25% of the required distribution system samples. HPC results greater than 500cfu/1mL (colony forming units per 1 mL) may indicate a change in water quality but are not considered an indicator of unsafe drinking water. The results from the 2025 sampling program for the Simcoe DWS are shown in the table below.

Table 3 – HPC Sampling Results

Location	Number of Samples	Number of HPC Samples	Range of HPC Results (cfu/1mL)
Cedar St Reservoir – POE	52	52	<10 – 20
Chapel St Well – POE	52	52	<10 – 270
NW Reservoir – POE	52	52	<10 – 20
Distribution System	377	163	<10 – 20

5. Chemical Sampling and Testing

As per Schedule 13 Chemical sampling and testing, of O. Reg. 170/03, sampling and testing for chemical parameters listed in Schedule 13, Schedule 23 and Schedule 24, is

required at varying frequencies. The 2025 results for chemical sampling and testing are provided in Appendix A - Summary of Chemical Results.

If the result obtained for a parameter listed Schedule 23 or Schedule 24 exceeds half the Maximum Allowable Concentration (MAC) found in O. Reg. 169/03 Ontario Drinking Water Quality Standards (ODWQS), sampling and testing frequency shall be increased to once every three (3) months.

Additional sampling and testing is required for the Simcoe DWS. As per the MDWL – Schedule C: 5.0 Additional Sampling, Testing and Monitoring quarterly sampling, testing and monitoring for sodium and Volatile Organic Compounds (VOCs) is required at the Cedar Street Wells point of entry to the distribution system. Quarterly sampling, testing and monitoring of sodium at the Cedar Street Wells and Chapel Street Well is also conducted in response to elevated levels greater than the MAC.

6. Operational Monitoring

As per Schedule 7 Operational checks, of O. Reg. 170/03, operational checks were conducted including raw and treated water turbidity, and treated and distribution water free chlorine residuals.

Turbidity

Turbidity is measured in Nephelometric Turbidity Units (NTU). Under O. Reg. 170/03 turbidity in groundwater is not reportable, however it is desirable to have < 1 NTU at the well and < 5 NTU in the distribution system. The raw water turbidity is sampled weekly at each well, and the treated water turbidity is monitored continuously. The results from the 2025 turbidity monitoring program for the Simcoe DWS are shown in the table below.

Table 4 – Turbidity Monitoring Results

Location	Number of Grab Samples	Range of Turbidity Results (NTU)
Raw Cedar St Well #1	0	Out of Service
Raw Cedar St Well #2	338	0.03 – 1.04
Raw Cedar St Well #3	338	0.02 – 5.00
Raw Cedar St Wel l#4	338	0.05 – 5.00
Raw Cedar St Well #5	332	0.06 – 0.72
Raw Chapel St Well	56	0.06 – 0.70
Raw NW Well #2	47	0.17 – 6.81
Raw NW Well #3	52	0.22 – 5.84
NW Filter #1	8760*	0.032 – 5.000

Location	Number of Grab Samples	Range of Turbidity Results (NTU)
NW Filter #2	8760*	0.011 – 5.000
NW Filter #3	8760*	0.012 – 5.000

*Continuous Monitoring

Chlorine Residual

As per Schedule 7 of O. Reg. 170/03, free chlorine residuals in the treated water are monitored continuously at the point of entry to the distribution system at all water treatment plants. The minimum required free chlorine residual in the distribution system is 0.05 mg/L, any samples below this must be reported as an AWQI and addressed via corrective actions. The results from the 2025 free chlorine residual monitoring program for the Simcoe DWS are shown in the table below.

Table 5 – Chlorine Residual Monitoring Results

Location	Number of Grab Samples	Range of Free Chlorine Residual Results (mg/L)
Cedar Street	8760*	0.000 – 3.386
Chapel Street	8760*	0.000 – 2.954
NW Reservoir	8760*	0.549 – 4.995
Distribution System	742	0.15 – 1.62

*Continuous Monitoring

Fluoride

Hydrofluorosilicic acid is added for fluoridation at all points of entry and the fluoride residuals are monitored daily. The results from the 2025 fluoride residual monitoring program for the Simcoe DWS are shown in the table below.

Table 6 – Fluoride Residual Monitoring Results

Location	Number of Grab Samples	Range of Fluoride Residual Results (mg/L)
Cedar Street	354	0.27 – 0.94
Chapel Street	365	0.05 – 0.93
NW Reservoir	365	0.31 – 0.87

7. Adverse Test Results

As per Schedule 16 Reporting adverse test results and other problems, of O. Reg. 170/03, there was one (1) AWQI issued for the Simcoe DWS. The table below

describes the date the adverse occurred, the parameter, the result, the corrective action taken and the date resolved.

Table 7 – AWQI Summary

Incident Date (dd/mm/yyyy)	Parameter	Result	Corrective Action	Date Resolved (dd/mm/yyyy)
25/02/2025	Operational	Calibration of NW Reservoir POE chorine analyzer not verified with grab sample. The analyzer reading went above the 2.00ppm threshold for accurate reading and was not reliable.	Operator took verification grab sample & adjusted analyzer. SCADA alarm added to notify Operations when residual reaches 1.99ppm in exceedance of five (5) minutes and to shutdown highlift pumps. Trends were reviewed, confirmed all treated water was adequately disinfected. Chemical dosages were also reviewed and found to be normal.	25/02/2025

8. Appendix A: Summary of Chemical Results

Understanding Chemical Sampling and Testing Results

The following tables summarize the laboratory results of the chemical testing Norfolk County is required to complete. Different parameters are required to be tested for at different frequencies as noted below.

Results are shown as concentrations with units of either milligrams per litre (mg/L) or micrograms per litre (ug/L). 1 mg/L is equal to 1000 ug/L. The Maximum Acceptable Concentration (MAC) is the highest amount of a parameter that is acceptable in municipal drinking water and can be found in O. Reg. 169/03 Ontario Drinking Water

Quality Standards (ODWQS). The Method Detection Limit (MDL) is the lowest amount to which the laboratory can confidently measure.

The following tables summarize the sampling and testing results for the parameters listed in Schedule 13 (fluoride, nitrate/nitrite, sodium), during the reporting period or the most recent sample results for the Simcoe DWS.

Table 8 – Cedar Street Reservoir Fluoride, Nitrate/Nitrite, Sodium (Schedule 13)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Fluoride	Daily			
Nitrate	10/02/2025 05/05/2025 11/08/2025 03/11/2025	6.95 6.49 6.4 5.81	mg/L mg/L mg/L mg/L	No
Nitrite	10/02/2025 05/05/2025 11/08/2025 03/11/2025	0.003<MDL 0.003<MDL 0.003<MDL 0.003<MDL	mg/L mg/L mg/L mg/L	No
Sodium	10/02/2025 05/05/2025 11/08/2025 03/11/2025	53.7 MAC 51.9 MAC 51.0 MAC 40.1 MAC	mg/L mg/L mg/L mg/L	Yes

Table 9 – Chapel Street Well Fluoride, Nitrate/Nitrite, Sodium (Schedule 13)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Fluoride	Daily			
Nitrate	10/02/2025 05/05/2025 11/08/2025 03/11/2025	4.92 4.91 4.85 5.06	mg/L mg/L mg/L mg/L	No
Nitrite	10/02/2025 05/05/2025 11/08/2025 03/11/2025	0.003<MDL 0.003<MDL 0.003<MDL 0.003<MDL	mg/L mg/L mg/L mg/L	No
Sodium	10/02/2025 05/05/2025 11/08/2025 03/11/2025	21.5 MAC 21.8 MAC 21.4 MAC 20.8 MAC	mg/L	Yes

Table 10 – Northwest Reservoir Fluoride, Nitrate/Nitrite, Sodium (Schedule 13)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Fluoride	Daily			
Nitrate	10/02/2025 05/05/2025 11/08/2025 03/11/2025	2.40 2.72 2.24 2.22	mg/L mg/L mg/L mg/L	No
Nitrite	10/02/2025 05/05/2025 11/08/2025 03/11/2025	0.003<MDL 0.003<MDL 0.003<MDL 0.003<MDL	mg/L mg/L mg/L mg/L	No
Sodium	05/05/2025	8.56	mg/L	No

The following tables summarize the sampling and testing results for the Inorganic Parameters listed in Schedule 23, during the reporting period or the most recent sample results for the Simcoe DWS.

Table 11 – Cedar Street Reservoir Inorganic Parameters (Schedule 23)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Antimony	05/05/2025	0.6 <MDL	ug/L	No
Arsenic	05/05/2025	0.2 <MDL	ug/L	No
Barium	05/05/2025	61.6	ug/L	No
Boron	05/05/2025	28	ug/L	No
Cadmium	05/05/2025	0.003 <MDL	ug/L	No
Chromium	05/05/2025	0.28	ug/L	No
Lead	Exempt			
Mercury	05/05/2025	0.01<MDL	ug/L	No
Selenium	05/05/2025	0.32	ug/L	No
Uranium	05/05/2025	0.637	ug/L	No
Volatile Organic Compounds (VOCs)	10/02/2025 05/05/2025 11/08/2025 03/11/2025	<MDL	ug/L	No

Table 12 – Chapel Street Well Inorganic Parameters (Schedule 23)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Antimony	05/05/2025	0.6 <MDL	ug/L	No
Arsenic	05/05/2025	0.2 <MDL	ug/L	No
Barium	05/05/2025	73.1	ug/L	No
Boron	05/05/2025	20	ug/L	No
Cadmium	05/05/2025	0.003 <MDL	ug/L	No

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Chromium	05/05/2025	0.58	ug/L	No
Lead	Exempt	Exempt		
Mercury	05/05/2025	0.01<MDL	ug/L	No
Selenium	05/05/2025	0.32	ug/L	No
Uranium	05/05/2025	0.453	ug/L	No

Table 13 – Northwest Reservoir Inorganic Parameters (Schedule 23)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Antimony	05/05/2025	0.6 <MDL	ug/L	No
Arsenic	05/05/2025	0.2 <MDL	ug/L	No
Barium	05/05/2025	58.1	ug/L	No
Boron	05/05/2025	12	ug/L	No
Cadmium	05/05/2025	0.003<MDL	ug/L	No
Chromium	05/05/2025	0.16	ug/L	No
Lead	Exempt			
Mercury	05/05/2025	0.01<MDL	ug/L	No
Selenium	05/05/2025	0.12	ug/L	No
Uranium	05/05/2025	0.576	ug/L	No

The following tables summarize the sampling and testing results for the Organic Parameters listed in Schedule 24, during the reporting period or the most recent sample results for the Simcoe DWS.

Table 14 – Cedar Street Reservoir Organic Parameters (Schedule 24)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Alachlor	05/05/2025	0.02 <MDL	ug/L	No
Atrazine + N-dealkylated metobolites	05/05/2025	0.01 <MDL	ug/L	No
Azinphos-methyl	05/05/2025	0.05 <MDL	ug/L	No
Benzene	05/05/2025	0.32 <MDL	ug/L	No
Benzo(a)pyrene	05/05/2025	0.004 <MDL	ug/L	No
Bromoxynil	05/05/2025	0.33 <MDL	ug/L	No
Carbaryl	05/05/2025	0.05 <MDL	ug/L	No
Carbofuran	05/05/2025	0.01 <MDL	ug/L	No
Carbon Tetrachloride	05/05/2025	0.17 <MDL	ug/L	No
Chlorpyrifos	05/05/2025	0.02 <MDL	ug/L	No
Diazinon	05/05/2025	0.02 <MDL	ug/L	No

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Dicamba	05/05/2025	0.20 <MDL	ug/L	No
1,2-Dichlorobenzene	05/05/2025	0.41 <MDL	ug/L	No
1,4-Dichlorobenzene	05/05/2025	0.36 <MDL	ug/L	No
1,2-Dichloroethane	05/05/2025	0.35 <MDL	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	05/05/2025	0.33 <MDL		
Dichloromethane	05/05/2025	0.35 <MDL	ug/L	No
2-4 Dichlorophenol	05/05/2025	0.15 <MDL	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	05/05/2025	0.19 <MDL	ug/L	No
Diclofop-methyl	05/05/2025	0.40 <MDL	ug/L	No
Dimethoate	05/05/2025	0.06 <MDL	ug/L	No
Diquat	05/05/2025	1 <MDL	ug/L	No
Diuron	05/05/2025	0.03 <MDL	ug/L	No
Glyphosate	05/05/2025	1 <MDL	ug/L	No
Malathion	05/05/2025	0.02 <MDL	ug/L	No
MCPA	05/05/2025	0.00012 <MDL	mg/L	No
Metolachlor	05/05/2025	0.01 <MDL	ug/L	No
Metribuzin	05/05/2025	0.02 <MDL	ug/L	No
Monochlorobenzene	05/05/2025	0.3 <MDL	ug/L	No
Paraquat	05/05/2025	1 <MDL	ug/L	No
Pentachlorophenol	05/05/2025	0.15 <MDL	ug/L	No
Phorate	05/05/2025	0.01 <MDL	ug/L	No
Picloram	05/05/2025	1 <MDL	ug/L	No
Polychlorinated Biphenyls(PCB)	05/05/2025	0.04 <MDL	ug/L	No
Prometryne	05/05/2025	0.03 <MDL	ug/L	No
Simazine	05/05/2025	0.01 <MDL	ug/L	No
Terbufos	05/05/2025	0.01 <MDL	ug/L	No
Tetrachloroethylene	05/05/2025	0.35 <MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	05/05/2025	0.20 <MDL	ug/L	No
Triallate	05/05/2025	0.01 <MDL	ug/L	No
Trichloroethylene	05/05/2025	0.44 <MDL	ug/L	No
2,4,6-Trichlorophenol	05/05/2025	0.25 <MDL	ug/L	No

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Trifluralin	05/05/2025	0.02 <MDL	ug/L	No
Vinyl Chloride	05/05/2025	0.17 <MDL	ug/L	No

Table 15 – Chapel Street Well Organic Parameters (Schedule 24)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Alachlor	05/05/2025	0.6 <MDL	ug/L	No
Atrazine + N-dealkylated metobolites	05/05/2025	0.01 <MDL	ug/L	No
Azinphos-methyl	05/05/2025	0.05 <MDL	ug/L	No
Benzene	05/05/2025	0.32 <MDL	ug/L	No
Benzo(a)pyrene	05/05/2025	0.004 <MDL	ug/L	No
Bromoxynil	05/05/2025	0.33 <MDL	ug/L	No
Carbaryl	05/05/2025	0.05 <MDL	ug/L	No
Carbofuran	05/05/2025	0.01 <MDL	ug/L	No
Carbon Tetrachloride	05/05/2025	0.17 <MDL	ug/L	No
Chlorpyrifos	05/05/2025	0.02 <MDL	ug/L	No
Diazinon	05/05/2025	0.02 <MDL	ug/L	No
Dicamba	05/05/2025	0.20 <MDL	ug/L	No
1,2-Dichlorobenzene	05/05/2025	0.41 <MDL	ug/L	No
1,4-Dichlorobenzene	05/05/2025	0.36 <MDL	ug/L	No
1,2-Dichloroethane	05/05/2025	0.35 <MDL	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	05/05/2025	0.33 <MDL	ug/L	No
Dichloromethane	05/05/2025	0.35 <MDL	ug/L	No
2-4 Dichlorophenol	05/05/2025	0.15 <MDL	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	05/05/2025	0.19 <MDL	ug/L	No
Diclofop-methyl	05/05/2025	0.40 <MDL	ug/L	No
Dimethoate	05/05/2025	0.06 <MDL	ug/L	No
Diquat	05/05/2025	1 <MDL	ug/L	No
Diuron	05/05/2025	0.03 <MDL	ug/L	No
Glyphosate	05/05/2025	1 <MDL	ug/L	No
Malathion	05/05/2025	0.02 <MDL	ug/L	No

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
MCPA	05/05/2025	0.00012 <MDL	mg/L	No
Metolachlor	05/05/2025	0.01 <MDL	ug/L	No
Metribuzin	05/05/2025	0.02 <MDL	ug/L	No
Monochlorobenzene	05/05/2025	0.3 <MDL	ug/L	No
Paraquat	05/05/2025	1 <MDL	ug/L	No
Pentachlorophenol	05/05/2025	0.15 <MDL	ug/L	No
Phorate	05/05/2025	0.01 <MDL	ug/L	No
Picloram	05/05/2025	1 <MDL	ug/L	No
Polychlorinated Biphenyls(PCB)	05/05/2025	0.04 <MDL	ug/L	No
Prometryne	05/05/2025	0.03 <MDL	ug/L	No
Simazine	05/05/2025	0.01 <MDL	ug/L	No
Terbufos	05/05/2025	0.01 <MDL	ug/L	No
Tetrachloroethylene	05/05/2025	0.35 <MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	05/05/2025	0.20 <MDL	ug/L	No
Triallate	05/05/2025	0.01 <MDL	ug/L	No
Trichloroethylene	05/05/2025	0.44 <MDL	ug/L	No
2,4,6-Trichlorophenol	05/05/2025	0.25 <MDL	ug/L	No
Trifluralin	05/05/2025	0.02 <MDL	ug/L	No
Vinyl Chloride	05/05/2025	0.17 <MDL	ug/L	No

Table 16 – Northwest Reservoir Organic Parameters (Schedule 24)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Alachlor	05/05/2025	0.02 <MDL	ug/L	No
Atrazine + N-dealkylated metobolites	05/05/2025	0.01<MDL	ug/L	No
Azinphos-methyl	05/05/2025	0.05 <MDL	ug/L	No
Benzene	05/05/2025	0.32 <MDL	ug/L	No
Benzo(a)pyrene	05/05/2025	0.004 <MDL	ug/L	No
Bromoxynil	05/05/2025	0.33 <MDL	ug/L	No
Carbaryl	05/05/2025	0.05 <MDL	ug/L	No
Carbofuran	05/05/2025	0.01 <MDL	ug/L	No
Carbon Tetrachloride	05/05/2025	0.17 <MDL	ug/L	No
Chlorpyrifos	05/05/2025	0.02 <MDL	ug/L	No
Diazinon	05/05/2025	0.02 <MDL	ug/L	No

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Dicamba	05/05/2025	0.20 <MDL	ug/L	No
1,2-Dichlorobenzene	05/05/2025	0.41 <MDL	ug/L	No
1,4-Dichlorobenzene	05/05/2025	0.36 <MDL	ug/L	No
1,2-Dichloroethane	05/05/2025	0.35 <MDL	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	05/05/2025	0.33 <MDL	ug/L	No
Dichloromethane	05/05/2025	0.35 <MDL	ug/L	No
2-4 Dichlorophenol	05/05/2025	0.15 <MDL	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	05/05/2025	0.19 <MDL	ug/L	No
Diclofop-methyl	05/05/2025	0.40 <MDL	ug/L	No
Dimethoate	05/05/2025	0.06 <MDL	ug/L	No
Diquat	05/05/2025	1 <MDL	ug/L	No
Diuron	05/05/2025	0.03 <MDL	ug/L	No
Glyphosate	05/05/2025	1 <MDL	ug/L	No
Malathion	05/05/2025	0.02 <MDL	ug/L	No
MCPA	05/05/2025	0.00012 <MDL	mg/L	No
Metolachlor	05/05/2025	0.01 <MDL	ug/L	No
Metribuzin	05/05/2025	0.02 <MDL	ug/L	No
Monochlorobenzene	05/05/2025	0.3 <MDL	ug/L	No
Paraquat	05/05/2025	1 <MDL	ug/L	No
Pentachlorophenol	05/05/2025	0.15 <MDL	ug/L	No
Phorate	05/05/2025	0.01 <MDL	ug/L	No
Picloram	05/05/2025	1 <MDL	ug/L	No
Polychlorinated Biphenyls(PCB)	05/05/2025	0.04 <MDL	ug/L	No
Prometryne	05/05/2025	0.03 <MDL	ug/L	No
Simazine	05/05/2025	0.01 <MDL	ug/L	No
Terbufos	05/05/2025	0.01 <MDL	ug/L	No
Tetrachloroethylene	05/05/2025	0.35 <MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	05/05/2025	0.20 <MDL	ug/L	No
Triallate	05/05/2025	0.01 <MDL	ug/L	No
Trichloroethylene	05/05/2025	0.44 <MDL	ug/L	No
2,4,6-Trichlorophenol	05/05/2025	0.25 <MDL	ug/L	No

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Trifluralin	05/05/2025	0.02 <MDL	ug/L	No
Vinyl Chloride	05/05/2025	0.17 <MDL	ug/L	No

The following table summarizes the sampling and testing results for Trihalomethane (THM) and Haloacetic Acids (HAA) in the distribution system, during the reporting period or the most recent sample results for the Simcoe DWS. The regulatory limit is based on the running annual average (RAA) of quarterly results and is 100ug/L for THM and 80ug/L for HAA.

Table 17 – Distribution System THM & HAA Results (Schedule 13)

Parameter	Sample Date (dd/mm/yyyy)	Result Value	Unit of Measure	Exceedance
Trihalomethane (THM) RAA = 37ug/L	10/02/2025 05/05/2025 11/08/2025 03/11/2025	28 26 35 42	ug/L ug/L ug/L ug/L	No
Haloacetic Acids (HAA) RAA = 16.53ug/L	10/02/2025 05/05/2025 11/08/2025 03/11/2025	5.3 15.4 7.1 12.4	ug/L ug/L ug/L ug/L	No

The following table summarizes the Lead sampling and testing results, as set out in Schedule 15.1 Lead, during the reporting period or the most recent sample results for the Simcoe DWS. Norfolk County follows the reduced sampling schedule which requires pH and alkalinity samples be collected twice a year and lead samples collected every third year from the distribution system.

Table 18 – Lead Sampling & Testing (Schedule 15.1)

Parameter	Sample Date (dd/mm/yyyy)	Number of Samples	Range of Results	Number of Exceedances
Lead (ug/L)	04/03/2024 23/09/2024	4 4	0.20 – 0.72 0.52 – 0.78	0 0
pH	03/03/2025 22/09/2025	4 4	7.32 – 7.42 7.23 – 7.59	0 0
Alkalinity (mg/L)	03/03/2025 22/09/2025	4 4	213 – 229 236 – 247	0 0