



## OPTIONAL ANNUAL REPORT TEMPLATE

**Drinking-Water System Number:**  
**Drinking-Water System Name:**  
**Drinking-Water System Owner:**  
**Drinking-Water System Category:**  
**Period being reported:**

260003136
City of Sarnia Water Distribution System
Corporation of the City of Sarnia
Large Municipal Residential
2022

**Complete if your Category is Large Municipal Residential or Small Municipal Residential**

**Does your Drinking-Water System serve more than 10,000 people?** Yes ☒ No ☐

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

**Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.**

City of Sarnia Website: [www.sarnia.ca](http://www.sarnia.ca)  
 and;

Public Works Division  
 City of Sarnia,  
 651 Devine Street  
 Sarnia, ON N7T 1W9

**Complete for all other Categories.**

**Number of Designated Facilities served:**

N/A

**Did you provide a copy of your annual report to all Designated Facilities you serve?**

Yes ☐ No ☐

**Number of Interested Authorities you report to:**

N/A

**Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?**

Yes ☐ No ☐

**Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report**

**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	

**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?**

Yes ☐ No ☐ 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 Public Request**

**Describe your Drinking-Water System**

Sarnia is a Drinking Water Distribution Only System.  
The distribution system consists of 50mm-600mm diameter water mains throughout the system.  
Lambton Area Water Supply System (LAWSS) supply's drinking water with a supplemental feed through the St. Clair Distribution System to provide increased flow for periods of high demand.

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

No additional chemicals are added to treated waters received from LAWSS

**Please provide a brief description and a breakdown of monetary expenses incurred**

<b>2021 Capital Projects Cost</b>		
<b>Description</b>	<b>Construction Description</b>	<b>Amount Spent</b>
Shepherd, Alfred, Russell Street	Sewer Separation Project	\$3,400,561.23
Crawford Street	Sewer Separation Project	\$1,476,868.42
Gladwish	Watermain Project	\$1,331,665.67
Plank Road	Road and Watermain	\$2,907,157.66

**Provide details on the 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.**

On March 13, 2022 a Lead Distribution Sample exceeded the 10 ppb limit and was resampled on the day that the test results were made available. The resampled Lead test was below the acceptable level of 10 ppb.



## Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #) cfu/100mL	Range of Total Coliform Results (min #)-(max #) cfu/100mL	Number of HPC Samples	Range of HPC Results (min #)-(max #)
<b>Raw</b>	n/a	n/a	n/a	n/a	n/a
<b>Treated</b>	n/a	n/a	n/a	n/a	n/a
<b>Distribution</b>	1288	0-0	0-0	328	<10 - 140

## Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
<b>Turbidity</b>	n/a	n/a	n/a
<b>Chlorine</b>	1556	(0.62 – 1.78)	mg/L
<b>Fluoride</b> (If the DWS provides fluoridation)	n/a		

## Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
NONE (0)				



## Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Note: Sarnia Distribution system is not required to conduct testing under this section. Lambton Area Water Supply System (LAWSS) has the required parameter results for Sarnia Distribution System source water. This information can be viewed in the LAWSS Annual Report and can be found on the City of Sarnia Website.

([www.sarnia.ca](http://www.sarnia.ca))

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	n/a			
Arsenic	n/a			
Barium	n/a			
Boron	n/a			
Cadmium	n/a			
Chromium	n/a			
*Lead	n/a			
Mercury	n/a			
Selenium	n/a			
Sodium	n/a			
Uranium	n/a			
Fluoride	n/a			
Nitrite	n/a			
Nitrate	n/a			

\*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

## Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Distribution	16	(<0.01) - (37.4)	ppb	1



## Summary of Organic parameters sampled during this reporting period or the most recent sample results

*Note: Sarnia Distribution system is not required to conduct testing under this section, with the exception of THM parameter. Lambton Area Water Supply System (LAWSS) has the required parameter results for Sarnia Distribution System source water. This information can be viewed in the LAWSS Annual Report and can be found through the City of Sarnia Website. ([www.sarnia.ca](http://www.sarnia.ca))*

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	n/a			
Aldicarb	n/a			
Aldrin + Dieldrin	n/a			
Atrazine + N-dealkylated metabolites	n/a			
Azinphos-methyl	n/a			
Bendiocarb	n/a			
Benzene	n/a			
Benzo(a)pyrene	n/a			
Bromoxynil	n/a			
Carbaryl	n/a			
Carbofuran	n/a			
Carbon Tetrachloride	n/a			
Chlordane (Total)	n/a			
Chlorpyrifos	n/a			
Cyanazine	n/a			
Diazinon	n/a			
Dicamba	n/a			
1,2-Dichlorobenzene	n/a			
1,4-Dichlorobenzene	n/a			
Dichlorodiphenyltrichloroethane (DDT) + metabolites	n/a			
1,2-Dichloroethane	n/a			
1,1-Dichloroethylene (vinylidene chloride)	n/a			
Dichloromethane	n/a			
2,4-Dichlorophenol	n/a			
2,4-Dichlorophenoxy acetic acid (2,4-D)	n/a			
Diclofop-methyl	n/a			
Dimethoate	n/a			
Dinoseb	n/a			
Diquat	n/a			
Diuron	n/a			
Glyphosate	n/a			
HAA (annual RAA)	Jan-Dec 2022	12.1	ug/L	N/A
Heptachlor + Heptachlor Epoxide	n/a			
Lindane (Total)	n/a			
Malathion	n/a			
Methoxychlor	n/a			



Metolachlor	n/a			
Metribuzin	n/a			
Monochlorobenzene	n/a			
Paraquat	n/a			
Parathion	n/a			
Pentachlorophenol	n/a			
Phorate	n/a			
Picloram	n/a			
Polychlorinated Biphenyls(PCB)	n/a			
Prometryne	n/a			
Simazine	n/a			
THM (NOTE: show latest annual average)	Jan-Dec 2022	18.75	ug/L	N/A
Temephos	n/a			
Terbufos	n/a			
Tetrachloroethylene	n/a			
2,3,4,6-Tetrachlorophenol	n/a			
Triallate	n/a			
Trichloroethylene	n/a			
2,4,6-Trichlorophenol	n/a			
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	n/a			
Trifluralin	n/a			
Vinyl Chloride	n/a			

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
NONE			