



OPTIONAL ANNUAL REPORT TEMPLATE

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

210000657
Emo Drinking Water System
The Corporation of the Township of Emo
Large Municipal Residential System
January 2017 to December 2017

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.

Emo Municipal Office
39 Roy Street
Emo Ontario
POW 1E0

Complete for all other Categories.

Number of Designated Facilities served:

[]

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

Yes [] No []

Number of Interested Authorities you report to:

[]

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:

Table with 2 columns: Drinking Water System Name, Drinking Water System Number

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 [X] No []



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 _____

Describe your Drinking-Water System

Surface Water Treatment Plant with Coagulation, Flocculation, Sedimentation tank, Filtration and Chlorination with P.H. adjustment.

List all water treatment chemicals used over this reporting period

Chlorine Gas, Soda Ash, Alum and Polymer

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

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

No significant expenses incurred in 2017

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

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



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 #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	50	0 - 34	0 - >2420	N/A	N/A
Treated	50	0	0	50	0 - 4
Distribution	113	0	0	36	0-167

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	<i>NOTE: For continuous monitors use 8760 as the number of samples.</i>
Turbidity	8760	0.01 - 1.0	NTU	
Chlorine	8760	0.59 - 2.38	mg/L	
Fluoride (If the DWS provides fluoridation)	N/A	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

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	Jan 11/17	< 0.60	ug/L	No
Arsenic	Jan 11/17	< 1.0	ug/L	No
Barium	Jan 11/17	< 1.0	ug/L	No
Boron	Jan 11/17	< 50	ug/L	No
Cadmium	Jan 11/17	< 0.10	ug/L	No
Chromium	Jan 11/17	< 1.0	ug/L	No
*Lead				
Mercury	Jan 11/17	< 0.10	ug/L	No
Selenium	Jan 11/17	< 1.0	ug/L	No
Sodium	Jan 11/17	28.9	mg/L	Yes
Uranium	Jan 11/17	< 2.0	ug/L	No
Fluoride	Jan 11/17	0.030	mg/L	No

Nitrite	Jan 11/17	<0.010	mg/L	No
Nitrate	Jan 11/17	0.074	mg/L	No

*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
Plumbing	22	<1.0 - <1.0	ug/L	
Distribution	4	<1.0 - <1.0	ug/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Jan 11/17	<0.10	ug/L	No
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites	Jan 11/17	<0.20	ug/L	No
Azinphos-methyl	Jan 11/17	<0.10	ug/L	No
Bendiocarb				
Benzene	Jan 11/17	<0.50	ug/L	No
Benzo(a)pyrene	Jan 11/17	<0.10	ug/L	No
Bromoxynil	Jan 11/17	<0.20	ug/L	No
Carbaryl	Jan 11/17	<0.20	ug/L	No
Carbofuran	Jan 11/17	<0.20	ug/L	No
Carbon Tetrachloride	Jan 11/17	<0.20	ug/L	No
Chlordane (Total)				
Chlorpyrifos	Jan 11/17	<0.10	ug/L	No
Cyanazine				
Diazinon	Jan 11/17	<0.10	ug/L	No
Dicamba	Jan 11/17	<0.20	ug/L	No
1,2-Dichlorobenzene	Jan 11/17	<0.50	ug/L	No
1,4-Dichlorobenzene	Jan 11/17	<0.50	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane	Jan 11/17	<0.50	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan 11/17	<0.50	ug/L	No
Dichloromethane	Jan 11/17	<5.0	ug/L	No
2,4-Dichlorophenol	Jan 11/17	<0.30	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 11/17	<0.20	ug/L	No



Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Diclofop-methyl	Jan 11/17	<0.20	ug/L	No
Dimethoate	Jan 11/17	<0.10	ug/L	No
Dinoseb				
Diquat	Jan 11/17	<1.0	ug/L	No
Diuron	Jan 11/17	<1.0	ug/L	No
Glyphosate	Jan 11/17	<5.0	ug/L	No
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion	Jan 11/17	<0.10	ug/L	No
Methoxychlor				
Metolachlor	Jan 11/17	<0.10	ug/L	No
Metribuzin	Jan 11/17	<0.10	ug/L	No
Monochlorobenzene	Jan 11/17	<0.50	ug/L	No
Paraquat	Jan 11/17	<1.0	ug/L	No
Parathion				
Pentachlorophenol	Jan 11/17	<0.50	ug/L	No
Phorate	Jan 11/17	<0.10	ug/L	No
Picloram	Jan 11/17	<0.20	ug/L	No
Polychlorinated Biphenyls(PCB)	Jan 11/17	<0.035	ug/L	No
Prometryne	Jan 11/17	<0.10	ug/L	No
Simazine	Jan 11/17	<0.10	ug/L	No
THM (NOTE: show latest annual average)	2017 Average	143.4	ug/L	YES
Temephos				
Terbufos	Jan 11/17	<0.20	ug/L	No
Tetrachloroethylene	Jan 11/17	<0.50	ug/L	No
2,3,4,6-Tetrachlorophenol	Jan 11/17	<0.50	ug/L	No
Triallate	Jan 11/17	<0.10	ug/L	No
Trichloroethylene	Jan 11/17	<0.50	ug/L	No
2,4,6-Trichlorophenol	Jan 11/17	<0.50	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin	Jan 11/17	<0.10	ug/L	No
Vinyl Chloride	Jan 11/17	<0.20	ug/L	No

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
THM ^s	143.4	ug/L	2017 Average
Sodium	28.9	mg/L	Jan 11/17