

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220002707
Drinking-Water System Name:	Port Elgin Water Supply System
Drinking-Water System Owner:	Town of Saugeen Shores
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 to December 31, 2003

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [ x ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ X ] No [ ]</p> <p>Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Town of Saugeen Shores 600 Tomlinson Drive Port Elgin, Ontario N0H 2C0 (519) 832-2008</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>
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List Drinking-Water Systems, which receive all of their drinking water from your system:

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 [ X ]

Indicate how you notified system users that your 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

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

- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method \_\_\_\_\_

**Describe your Drinking-Water System**

**Class 2 Water Distribution, Class 3 Water Treatment**

**Operational Description:** The system supplies treated water to the Town of Port Elgin and parts of Saugeen Township. The facility is supplied by water from Lake Huron through a 508mm dia. intake pipe to the low lift pump station which is equipped with manual screens and 2 vertical turbine electric pumps. One square upflow clarifier utilizing aluminum sulphate and a polyelectrolyte filter aid discharging to 2 dual media filter beds with a capacity of 6056 m3 daily. A combination contact chamber, clearwell storage and backwash water storage is located under the high lift pump area . The water plant discharges to a 4545 m3 reservoir and also to a standpipe.

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

Aluminum sulphate  
 Polyelectrolytes  
 Sodium hypochlorite 12% NSF certified  
 Sodium Metabisulphate NSF certified

**Were any significant expenses incurred to?**

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

**Describe**

\*Clearwell clean out (ordered by MOE)  
 \*Water Plant generator repairs  
 \*Installation of recorder/meters/safety station at Saugeen Point Sampling Station  
 \*Recoat reservoir  
 \*Water plant improvements (coolant leak repair/input output modules/amplifier board/75HP motor)

**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
July 29/03	Total Coliforms	1	cfu/100ml	Resample initiated	August 01/03
August 05/03	Total Coliforms	1	cfu/100ml	Resample initiated	August 07/03

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

### Microbiological testing done under section Schedule 10 during this reporting period

	Number of Samples	Range of E.Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
<b>Raw</b>	<b>53</b>	<b>0-580</b>	<b>0-5040</b>		
<b>Treated</b>	<b>56</b>	<b>0-0</b>	<b>0-3</b>	<b>55</b>	<b>0-197</b>
<b>Distribution</b>	<b>350</b>	<b>0-0</b>	<b>0-1</b>	<b>38</b>	<b>0-6</b>

### Operational testing done under Schedule 7, during the period covered by this Annual Report.

Treated Water	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	.07 - .54
Chlorine (free)	8760	.63 - 1.4
Fluoride (If the DWS provides fluoridation)	N/A	
Distribution System		
Chlorine Residual	214	.31 - 1.12

*NOTE: Record the unit of measure if it is not milligrams per litre.*

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

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Oct. 29/03	<0.6	ug/L	0
Arsenic	Oct. 29/03	<2	ug/L	0
Barium	Oct. 29/03	13	ug/L	0
Boron	Oct. 29/03	13	ug/L	0
Cadmium	Oct. 29/03	<0.1	ug/L	0
Chromium	Oct. 29/03	<3	ug/L	0
Lead-Distribution	July 15/03	<0.6	ug/L	0
Mercury	Oct. 29/03	<0.1	ug/L	0
Selenium	Oct. 29/03	<3	ug/L	0
Uranium	Oct. 29/03	<0.05	ug/L	0
Fluoride	Jan. 14/03	0.11	mg/L	0

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

Copper	Jan.14/03	< 64	ug/L	0
Iron	Jan.14/03	< 90	ug/L	0
Manganese	Jan.14/03	< 2	ug/L	0
Nitrite (quarterly)	Jan 14/03	<0.011	mg/L	0
	April 15/03	<0.011	mg/L	0
	July 15/03	<0.011	mg/L	0
	Oct. 29/03	<0.011	mg/L	0
Nitrate (quarterly)	Jan 14/03	.344	mg/L	0
	April 15/03	.618	mg/L	0
	July 15/03	.378	mg/L	0
	Oct. 29/03	.351	mg/L	0

**Summary of Organic parameters sampled during this reporting period or most recent**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Oct 29/03	<0.11	ug/L	0
Aldicarb	Oct 29/03	<0.3	ug/L	0
Aldrin + Dieldrin	Oct 29/03	<0.067	ug/L	0
Atrazine + N-dealkylated metabolites	Oct 29/03	<0.12	ug/L	0
Azinphos-methyl	Oct 29/03	<0.21	ug/L	0
Bendiocarb	Oct 29/03	<0.13	ug/L	0
Benzene	Oct 29/03	<0.36	ug/L	0
Benzo(a)pyrene	Oct 29/03	<0.004	ug/L	0
Bromoxynil	Oct 29/03	<0.06	ug/L	0
Carbaryl	Oct 29/03	<0.16	ug/L	0
Carbofuran	Oct 29/03	<0.37	ug/L	0
Carbon Tetrachloride	Oct 29/03	<0.34	ug/L	0
Chlordane (Total)	Oct 29/03	<0.11	ug/L	0
Chlorpyrifos	Oct 29/03	<0.18	ug/L	0
Cyanazine	Oct 29/03	<0.18	ug/L	0
Diazinon	Oct 29/03	<0.081	ug/L	0
Dicamba	Oct 29/03	<0.17	ug/L	0
1,2-Dichlorobenzene	Oct 29/03	<0.56	ug/L	0
1,4-Dichlorobenzene	Oct 29/03	<0.25	ug/L	0
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Oct 29/03	<0.14	ug/L	0
1,2-Dichloroethane	Oct 29/03	<0.32	ug/L	0
1,1-Dichloroethylene (vinylidene chloride)	Oct 29/03	<0.52	ug/L	0
Dichloromethane	Oct 29/03	<1.17	ug/L	0
2-4 Dichlorophenol	Oct 29/03	<0.15	ug/L	0
2,4-Dichlorophenoxy acetic acid (2,4-D)	Oct 29/03	<0.11	ug/L	0
Diclofop-methyl	Oct 29/03	<0.13	ug/L	0
Dimethoate	Oct 29/03	<0.12	ug/L	0
Dinoseb	Oct 29/03	<0.084	ug/L	0

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

Diquat	Oct 29/03	<1.0	ug/L	0
Diuron	Oct 29/03	<0.087	ug/L	0
Glyphosate	Oct 29/03	<6	ug/L	0
Heptachlor + Heptachlor Epoxide	Oct 29/03	<.11	ug/L	0
Lindane (Total)	Oct 29/03	<0.056	ug/L	0
Malathion	Oct 29/03	<0.091	ug/L	0
Methoxychlor	Oct 29/03	<0.14	ug/L	0
Metolachlor	Oct 29/03	<0.092	ug/L	0
Metribuzin	Oct 29/03	<0.12	ug/L	0
Monochlorobenzene	Oct 29/03	<0.46	ug/L	0
Paraquat	Oct 29/03	<1.0	ug/L	0
Parathion	Oct 29/03	<0.18	ug/L	0
Pentachlorophenol	Oct 29/03	<0.15	ug/L	0
Phorate	Oct 29/03	<0.11	ug/L	0
Picloram	Oct 29/03	<0.20	ug/L	0
Polychlorinated Biphenyls(PCB)	Oct 29/03	<0.04	ug/L	0
Promethyne	Oct 29/03	<0.23	ug/L	0
Simazine	Oct 29/03	<0.15	ug/L	0
Temephos	Oct 29/03	<0.31	ug/L	0
Terbufos	Oct 29/03	<0.12	ug/L	0
Tetrachloroethylene	Oct 29/03	<0.48	ug/L	0
2,3,4,6-Tetrachlorophenol	Oct 29/03	<0.14	ug/L	0
Triallate	Oct 29/03	<0.10	ug/L	0
Trichloroethylene	Oct 29/03	<0.54	ug/L	0
2,4,6-Trichlorophenol	Oct 29/03	<0.25	ug/L	0
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Oct 29/03	<0.14	ug/L	0
Trifluralin	Oct 29/03	<0.12	ug/L	0
Vinyl Chloride	Oct 29/03	<0.08	ug/L	0

Quarterly	Jan 14/03	April 15/03	July 15/03	Oct. 29/03
THM- Distribution (mg/L)	9.6 ug/L	10 ug/L	22 ug/L	17 ug/L
Annual Average:				
14.6 ug/L				

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

(Only if category is large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential)

Revised March 16/04