



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

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February 17, 2015

Bill Jones, CAO  
Municipality of Northern Bruce Peninsula  
56 Lindsay Road 5  
Lion's Head, Ontario  
NOH 1W0

**Re: Requirement under O. Reg. 170/03 Annual and Summary Reports**

Attached are the 2014 Annual and Summary Reports for the Lion's Head WTP and the Annual Report for the Tobermory Primary Place Day Care Centre. These reports are completed in accordance with Section 11 and Schedule 22 of O. Reg. 170/03, which require an Annual Report to be prepared not later than February 28th of each year for the preceding calendar year and a Summary Report to be prepared not later than March 31<sup>st</sup> of the year for the preceding calendar year.

The Summary Report is to be provided to the members of the municipal council. Please ensure this distribution.

Section 12 of O. Reg. 170/03, requires both the Summary Reports and the Annual Reports be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the municipality, or at a location that is reasonably convenient to the users of the water system.

Please acknowledge receipt of this document.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Laliberte".

Richard Laliberte, Senior Operations Manager  
Ontario Clean Water Agency  
West Highlands Hub

RL/cy

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

<b>Drinking-Water System Number:</b>	#220007034
<b>Drinking-Water System Name:</b>	Tobermory Primary Place Day Care
<b>Drinking-Water System Owner:</b>	Municipality of Northern Bruce Peninsula
<b>Drinking-Water System Category:</b>	Small Municipal Non-Residential
<b>Period being reported:</b>	March 9, 2014 – December 19, 2014

<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 [ ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ ] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">1</div></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ X ] No [ ]</p> <p>Number of Interested Authorities you report to:  <div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">1</div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ X ] No [ ]</p>
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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 a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method Include notice in water billings

Describe your Drinking-Water System

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

**One drilled well**

Raw water passes through a softener, followed by treatment consisting of two (2) 0.5 micron cartridge filters, one (1) UV disinfection unit and chlorine disinfection.

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

Sodium hypochlorite  
Water softening salt

**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**

Replacement of UV Trojan sensor with kit & solenoid harness assembly  
Replacement of cartridge filters  
Replacement of the flow meter  
Repairs required to Wonderware SCADA System

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
2014/04/14	Turbidity	>1.0	NTU	Issued a Precautionary Boil Water advisory (PBWA); replaced filter cartridges; take raw water sample & flush plumbing.	2014/04/17
2014/06/16	Low Chlorine Residual	0.0	mg/L	Discovered chlorine injection point was clogged resulting in faulty chlorine analyzer readings; cleaned injector and sensor; flushed low chlorinated water from system. The water valve was shut off at point of entry and flushed prior to point of entry to prevent any water consumption until satisfactory resolution. (No one present at the facility during the incident.	2014/06/16

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

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	13	0 - 580	2 - 11200	N/A	N/A
Treated	N/A	N/A	N/A	N/A	N/A
Distribution	21	0 - 0	0 - 0	N/A	N/A

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 #)
Turbidity – Treated Water	8760	0.0 – > 4.1606 NTU
Free Chlorine	8760	0.447 – 1.582
Dist. Free Chlorine	8760	0.66 – 1.56

*NOTE: For continuous monitors use 8760 as the number of samples.*

*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, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

**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	09/22/10	0.08	ug/L	No
Arsenic	09/22/10	0.07	ug/L	No
Barium	09/22/10	20.5	ug/L	No
Boron	09/22/10	21.0	ug/L	No
Cadmium	09/22/10	0.035	ug/L	No
Chromium	09/22/10	2.7	ug/L	No
Lead (standing)	06/08/14	3.21	ug/L	No
Mercury	09/22/10	<0.02	ug/L	No
Selenium	09/22/10	8.0	ug/L	No
Sodium	05/19/10	103	mg/L	Yes
Uranium	09/22/10	0.030	ug/L	No
Fluoride	05/19/10	0.14	mg/L	No
Nitrite	04/07/14	<0.003	mg/L	No
Nitrite	07/09/14	<0.003	mg/L	No
Nitrite	10/09/14	<0.003	mg/L	No
Nitrate	04/07/14	2.50	mg/L	No
Nitrate	07/09/14	2.60	mg/L	No
Nitrate	10/09/14	3.57	mg/L	No

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

Parameter	Sample Date	Result Value	Exceedance
Alachlor (ug/L) - TW	09/22/10	< 0.11	No
Aldicarb (ug/L) - TW	09/22/10	< 0.30	No
Aldrin + Dieldrin (ug/L) - TW	09/22/10	< 0.067	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	09/22/10	< 0.12	No
Azinphos-methyl (ug/L) - TW	09/22/10	< 0.21	No
Bendiocarb (ug/L) - TW	09/22/10	< 0.13	No
Benzene (ug/L) - TW	09/22/10	< 0.32	No
Benzo(a)pyrene (ug/L) - TW	09/22/10	< 0.0040	No
Bromoxynil (ug/L) - TW	09/22/10	< 0.33	No
Carbaryl (ug/L) - TW	09/22/10	< 0.16	No
Carbofuran (ug/L) - TW	09/22/10	< 0.37	No

Carbon Tetrachloride (ug/L) - TW	09/22/10	< 0.16	No
Chlordane:Total (ug/L) - TW	09/22/10	< 0.11	No
Chlorpyrifos (ug/L) - TW	09/22/10	< 0.18	No
Cyanazine (ug/L) - TW	09/22/10	< 0.18	No
Diazinon (ug/L) - TW	09/22/10	< 0.081	No
Dicamba (ug/L) - TW	09/22/10	< 0.20	No
1,2-Dichlorobenzene (ug/L) - TW	09/22/10	< 0.41	No
1,4-Dichlorobenzene (ug/L) - TW	09/22/10	< 0.36	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L) - TW	09/22/10	< 0.14	No
1,2-Dichloroethane (ug/L) - TW	09/22/10	< 0.35	No
1,1-Dichloroethylene (ug/L) - TW	09/22/10	< 0.33	No
Dichloromethane (ug/L) - TW	09/22/10	< 0.35	No
2,4-Dichlorophenol (ug/L) - TW	09/22/10	< 0.15	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	09/22/10	< 0.19	No
Diclofop-methyl (ug/L) - TW	09/22/10	< 0.40	No
Dimethoate (ug/L) - TW	09/22/10	< 0.12	No
Dinoseb (ug/L) - TW	09/22/10	< 0.36	No
Diquat (ug/L) - TW	09/22/10	< 1.00	No
Diuron (ug/L) - TW	09/22/10	< 0.087	No
Glyphosate (ug/L) - TW	09/22/10	< 6.00	No
Heptachlor+Hepachlor Epoxide (ug/L) - TW	09/22/10	< 0.11	No
Lindane: (ug/L) - TW	09/22/10	< 0.056	No
Malathion (ug/L) - TW	09/22/10	< 0.091	No
Methoxychlor (ug/L) - TW	09/22/10	< 0.14	No
Metolachlor (ug/L) - TW	09/22/10	< 0.092	No
Metribuzin (ug/L) - TW	09/22/10	< 0.12	No
Monochlorobenzene (ug/L) - TW	09/22/10	< 0.30	No
Paraquat (ug/L) - TW	09/22/10	< 1.00	No
Parathion (ug/L) - TW	09/22/10	< 0.18	No
Pentachlorophenol (ug/L) - TW	09/22/10	< 0.15	No
Phorate (ug/L) - TW	09/22/10	< 0.11	No

Picloram (ug/L) - TW	09/22/10	< 0.25	No
Polychlorinated Bichenysl(PCB) (ug/L) - TW	09/22/10	< 0.040	No
Prometryne (ug/L) - TW	09/22/10	< 0.23	No
Simazine (ug/L) - TW	09/22/10	< 0.15	No
THM (ug/L) – DW (Average)	2011	8.65	No
Temephos (ug/L) - TW	09/22/10	< 0.31	No
Terbufos (ug/L) - TW	09/22/10	< 0.12	No
Tetrachloroethylene (ug/L) - TW	09/22/10	< 0.35	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	09/22/10	< 0.14	No
Triallate (ug/L) - TW	09/22/10	< 0.10	No
Trichloroethylene (ug/L) - TW	09/22/10	< 0.43	No
2,4,6-Trichlorophenol (ug/L) - TW	09/22/10	< 0.25	No
2,4,5-Trichlorophenoxy acetic acid (ug/L) - TW	09/22/10	< 0.22	No
Trifluralin (ug/L) - TW	09/22/10	< 0.12	No
Vinyl Chloride (ug/L) - TW	09/22/10	< 0.17	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
.....	.....	.....	.....
.....	.....	.....	.....

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