



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

**TOBERMORY PRIMARY PLACE DAY CARE  
DRINKING WATER SYSTEM**

Small Municipal Non-Residential

**SECTION 11  
ANNUAL REPORT**

**For the period of  
JANUARY 1, 2020 TO DECEMBER 31, 2020**

Prepared by the Ontario Clean Water Agency  
For The Municipality of Northern Bruce Peninsula

<b>Drinking Water System Number:</b>	260024596
<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>Reporting Period:</b>	January 1, 2020 to December 31, 2020

**Number of Designated Facilities served:**

1.

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

Yes.

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

1.

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

Yes.

**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	n/a

**Did you provide a copy of the annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?**

n/a

**How system users are notified that the 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: \_\_\_\_\_

**Description of Drinking Water System:**

The Tobermory Primary Place Daycare Drinking Water System is supplied by a drilled GUDI well. The daycare building houses the filtration and treatment facilities which include:

- Water Softener
- Sediment Filtration System
- Cartridge Filtration System (to assist with UV disinfection)
- Online Filter Turbidity Analyzer
- Ultra Violet Disinfection System
- Sodium hypochlorite disinfection system
- Contact tanks
- Flow meter
- Online Chlorine Analyzer

**List of water treatment chemicals used during the reporting period:**

- |  |
|--|
| <ul style="list-style-type: none"> <li>• Water softening salt</li> <li>• Sodium hypochlorite 6%</li> </ul> |
|--|

**Significant expenses were incurred to:**

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| <input type="checkbox"/>            | Install required equipment            |
| <input type="checkbox"/>            | Repair required equipment             |
| <input type="checkbox"/>            | Replace required equipment            |
| <input checked="" type="checkbox"/> | No significant expenses were incurred |

**Description of expenses:**

<i>No significant expenses were incurred</i>
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**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:**

Date of Incident	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
August 8, 2020	Failure to meet disinfection due to chlorine pump failure	n/a	n/a	1. August 8 - Posted Precautionary Boil Water Notice. 2. August 8 – Pump rebuilt. 3. August 8 – Flushed system. 4. August 8 – Made sure disinfection and chlorine residuals were restored. 5. August 10 – Resampled on Monday to confirm water is safe to drink. 6. August 13 – Lab results received from August 10 sample showing 0 cfu/100mL E. coli and 0 cfu/100mL Total Coliforms. 7. August 14 – Precautionary Boil Water Notice removed since results were received and it was established that the water is safe to drink. <b>Resolved.</b>	August 8, 2020 AWQI # 150982

**Table 1. Microbiological testing done under Schedule 10, 11 or 12 of Regulation 170/03 during this reporting Period**

Location	Number of Samples	Range of E.coli Results		Range of Total Coliforms Results		Number of HPC Samples	Range of HPC Samples	
		Minimum	Maximum	Minimum	Maximum		Minimum	Maximum
<b>Raw (RW)</b>	10*	0	9	9	680	n/a	n/a	n/a
<b>Treated (TW)</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Distribution (DW)</b>	24*	0	0	0	0	n/a	n/a	n/a

\*System was shut down due to closure from COVID-19

**Table 2. Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.**

	Number of Grab Samples	Range of Results	
		Minimum	Maximum
<b>Turbidity, On-Line (NTU) - TW</b>	8760	0	10.00*
<b>Free Chlorine Residual, In-House (mg/L) - TW</b>	131	0.64	3.88
<b>Free Chlorine Residual, On-Line (mg/L) - DW</b>	8760	0**	4.58

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

\*High Turbidity caused by turbidimeter verification. No adverse.

\*\*Chlorine residual dipped to 0 mg/L caused by chlorine pump failure on August 8, 2020 – reported as AWQI – Please refer to 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” for additional details.

**Table 3. Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.**

Date of Order	Parameter	Date Sampled	Result	Allowable Limit
n/a	n/a	n/a	n/a	n/a

**Table 4. Summary of Inorganic parameters tested during this reporting period or most recent sample results**

Parameter	Sample Date	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance
Antimony: Sb (µg/L) - TW	2016/02/29	0.75	6.0	No
Arsenic: As (µg/L) - TW	2016/02/29	0.5	10.0	No
Barium: Ba (µg/L) - TW	2016/02/29	5.44	1000.0	No
Boron: B (µg/L) - TW	2016/02/29	21.0	5000.0	No
Cadmium: Cd (µg/L) - TW	2016/02/29	0.027	5.0	No
Chromium: Cr (µg/L) - TW	2016/02/29	1.17	50.0	No
*Lead (µg/L) – Kitchen #1 West Sink - Standing (µg/L)	2020/06/15	3.38	10.0	No
*Lead (µg/L) – Kitchen #1 West Sink - Flushed (µg/L)	2020/06/15	1.94	10.0	No
*Lead (µg/L) – Kitchen #2 East Sink - Standing (µg/L)	2020/06/15	2.71	10.0	No
*Lead (µg/L) – Kitchen #2 East Sink - Flushed (µg/L)	2020/06/15	4.67	10.0	No
Mercury: Hg (µg/L) - TW	2016/02/29	2.07	1.0	No
Selenium: Se (µg/L) - TW	2016/02/29	0.05	50.0	No
Uranium: U (µg/L) - TW	2016/02/29	0.014	20.0	No
Fluoride (mg/L) - TW	2017/04/04	0.1	1.5	No
Nitrite (mg/L) - TW	2020/01/06	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2020/06/01	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2020/09/08	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2020/12/01	<MDL 0.003	1.0	No
Nitrate (mg/L) - TW	2020/01/06	0.017	10.0	No
Nitrate (mg/L) - TW	2020/06/01	2.3	10.0	No
Nitrate (mg/L) - TW	2020/09/08	2.63	10.0	No
Nitrate (mg/L) - TW	2020/12/01	2.35	10.0	No
Sodium: Na (mg/L) - TW	2017/04/04	94.2	20*	Yes**

\*Note: Annual lead testing is required under O.Reg 243/07 Schools, Private Schools, and Childcare Centres for every faucet that a child may drink from and/or that food is prepared with. There are two faucets that meet the requirements for sampling; labeled Kitchen #1 West Sink and Kitchen #2 East Sink.

\*\*NOTE: There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

NOTE: The most recent set of Schedule 23 samples were taken in February 2016. The next set of samples will be taken in January 2021.

NOTE: Sodium and Fluoride are to be sampled every 60 months. PPDC remains posted with an MOH Warning of High Sodium.

**Table 5. Summary of lead testing under Schedule 15.1 during this reporting period.**

Location Type	Number of Samples	Range of Lead Results		Number of Exceedances
		Minimum	Maximum	
Plumbing	-	-	-	-
Distribution (µg/L)	-	-	-	-

\*15.1 Lead Distribution Water sampling not a requirement for small municipal non-residential system. Please see Table 4 for latest sample results from O. Reg. 243 sampling (flushed and standing).

**Table 6. Summary of Organic parameters sampled during this reporting period or most recent sample results.**

Parameter	Sample Date	Result Value	MAC	Exceedance
Alachlor (µg/L) - TW	2016/02/29	<MDL 0.02	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW	2016/02/29	<MDL 0.01	5.0	No
Azinphos-methyl (µg/L) - TW	2016/02/29	<MDL 0.05	20.0	No
Benzene (µg/L) - TW	2016/02/29	<MDL 0.32	1.0	No
Benzo(a)pyrene (µg/L) - TW	2016/02/29	<MDL 0.004	0.01	No
Bromoxynil (µg/L) - TW	2016/02/29	<MDL 0.33	5.0	No
Carbaryl (µg/L) - TW	2016/02/29	<MDL 0.05	90.0	No
Carbofuran (µg/L) - TW	2016/02/29	<MDL 0.01	90.0	No
Carbon Tetrachloride (µg/L) - TW	2016/02/29	<MDL 0.16	2.0	No
Chlorpyrifos (µg/L) - TW	2016/02/29	<MDL 0.02	90.0	No
Diazinon (µg/L) - TW	2016/02/29	<MDL 0.02	20.0	No
Dicamba (µg/L) - TW	2016/02/29	<MDL 0.2	120.0	No
1,2-Dichlorobenzene (µg/L) - TW	2016/02/29	<MDL 0.41	200.0	No
1,4-Dichlorobenzene (µg/L) - TW	2016/02/29	<MDL 0.36	5.0	No
1,2-Dichloroethane (µg/L) - TW	2016/02/29	<MDL 0.35	5.0	No
1,1-Dichloroethylene (µg/L) - TW	2016/02/29	<MDL 0.33	14.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW	2016/02/29	<MDL 0.35	50.0	No
2,4-Dichlorophenol (µg/L) - TW	2016/02/29	<MDL 0.15	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW	2016/02/29	<MDL 0.19	100.0	No
Diclofop-methyl (µg/L) - TW	2016/02/29	<MDL 0.4	9.0	No
Dimethoate (µg/L) - TW	2016/02/29	<MDL 0.03	20.0	No
Diquat (µg/L) - TW	2016/02/29	<MDL 1.0	70.0	No
Diuron (µg/L) - TW	2016/02/29	<MDL 0.03	150.0	No
Glyphosate (µg/L) - TW	2016/02/29	<MDL 1.0	280.0	No
Malathion (µg/L) - TW	2016/02/29	<MDL 0.02	190.0	No
Metolachlor (µg/L) - TW	2016/02/29	<MDL 0.01	50.0	No
Metribuzin (µg/L) - TW	2016/02/29	<MDL 0.02	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW	2016/02/29	<MDL 0.3	80.0	No
Paraquat (µg/L) - TW	2016/02/29	<MDL 1.0	10.0	No
PCB (µg/L) - TW	2016/02/29	<MDL 0.04	3.0	No
Pentachlorophenol (µg/L) - TW	2016/02/29	<MDL 0.15	60.0	No
Phorate (µg/L) - TW	2016/02/29	<MDL 0.01	2.0	No
Picloram (µg/L) - TW	2016/02/29	<MDL 1.0	190.0	No
Prometryne (µg/L) - TW	2016/02/29	<MDL 0.03	1.0	No
Simazine (µg/L) - TW	2016/02/29	<MDL 0.01	10.0	No
Terbufos (µg/L) - TW	2016/02/29	<MDL 0.01	1.0	No
Tetrachloroethylene (µg/L) - TW	2016/02/29	<MDL 0.35	10.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW	2016/02/29	<MDL 0.2	100.0	No
Triallate (µg/L) - TW	2016/02/29	<MDL 0.01	230.0	No
Trichloroethylene (µg/L) - TW	2016/02/29	<MDL 0.44	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW	2016/02/29	<MDL 0.25	5.0	No
Trifluralin (µg/L) - TW	2016/02/29	<MDL 0.02	45.0	No
Vinyl Chloride (µg/L) - TW	2016/02/29	<MDL 0.17	1.0	No

NOTE: The most current set of Schedule 24 samples were taken in September 2016. The next set of samples will be taken in January 2021.

**Table 7. 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
n/a	n/a	n/a	n/a

NOTE: This is required only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, small municipal non-residential, large non municipal non-residential)