



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, 2021 TO DECEMBER 31, 2021**

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

Drinking Water System Number:	260024596
Drinking Water System Name:	Tobermory Primary Place Day Care
Drinking Water System Owner:	Municipality of Northern Bruce Peninsula
Drinking Water System Category:	Small Municipal Non-Residential
Reporting Period:	January 1, 2021 to December 31, 2021

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"> • Water softening salt • Sodium hypochlorite 6%
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Significant expenses were incurred to:

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

Description of expenses:

Replaced UV solenoid valve Repaired online turbidity analyzer Revision of the Engineer Evaluation Report
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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
January 11, 2021	Sodium	113	mg/L	1. The daycare is always posted with an MOH Warning of High Sodium 2. Resample as soon as reasonably possible 3. No further direction provided by MOH 4. Resampled January 26, 2021 5. Lab results received on February 1, 2021 showing 109 mg/L, while still an exceedance it does not need to be reported since there has already been a report within the last 57 months. 6. Tobermory Primary Place Daycare will remain posted with an MOH Warning of High Sodium. 7. AWQI # 153422	February 2, 2021

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
Raw (RW)	12	0	29	7	260	n/a	n/a	n/a
Treated (TW)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Distribution (DW)	26	0	0	0	0	n/a	n/a	n/a

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
Turbidity, In-House (NTU) – TW	167	0.06	0.38
Turbidity, On-Line (NTU) – Filter	8760	0.00	9.99*
Free Chlorine Residual, In-House (mg/L) – TW	168	0.52	4.40
Free Chlorine Residual, On-Line (mg/L) - DW	8760	0**	4.90

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

*High Turbidity caused by routine maintenance, turbidimeter verifications and power outages. No adverse.

**Chlorine residual caused by routine maintenance, flushing and power outages. No adverse.

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	
				MAC	½ MAC
Antimony: Sb (µg/L) - TW	2021/01/11	0.75	6.0	No	No
Arsenic: As (µg/L) - TW	2021/01/11	0.5	10.0	No	No
Barium: Ba (µg/L) - TW	2021/01/11	5.44	1000.0	No	No
Boron: B (µg/L) - TW	2021/01/11	21.0	5000.0	No	No
Cadmium: Cd (µg/L) - TW	2021/01/11	0.027	5.0	No	No
Chromium: Cr (µg/L) - TW	2021/01/11	1.17	50.0	No	No
*Lead (µg/L) – Kitchen #1 West Sink - Standing	2021/06/22	4.35	10.0	No	No
*Lead (µg/L) – Kitchen #1 West Sink - Flushed	2021/06/22	2.20	10.0	No	No
*Lead (µg/L) – Kitchen #2 East Sink - Standing	2021/06/22	6.86	10.0	No	Yes
*Lead (µg/L) – Kitchen #2 East Sink - Flushed	2021/06/22	2.92	10.0	No	No
Mercury: Hg (µg/L) - TW	2021/01/11	2.07	1.0	No	No
Selenium: Se (µg/L) - TW	2021/01/11	0.05	50.0	No	No
Uranium: U (µg/L) - TW	2021/01/11	0.014	20.0	No	No
Fluoride (mg/L) - TW	2021/01/11	0.1	1.5	No	No
Nitrite (mg/L) - TW	2021/01/04	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/06/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/09/20	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/12/06	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2021/01/04	2.45	10.0	No	No
Nitrate (mg/L) - TW	2021/06/07	2.05	10.0	No	No
Nitrate (mg/L) - TW	2021/09/20	1.63	10.0	No	No
Nitrate (mg/L) - TW	2021/12/06	2.74	10.0	No	No
Sodium: Na (mg/L) - TW	2021/01/11	113.0	20*	Yes**	Yes**
Sodium: Na (mg/L) – TW	2021/01/26	109.0	20*	Yes**	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. See "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 more details.

NOTE: The most recent set of Schedule 23 samples were taken in January 2021. The next set of samples will be taken in January 2026.

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	
				MAC	½ MAC
Alachlor (µg/L) - TW	2021/01/11	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (µg/L) - TW	2021/01/11	<MDL 0.01	5.0	No	No
Azinphos-methyl (µg/L) - TW	2021/01/11	<MDL 0.05	20.0	No	No
Benzene (µg/L) - TW	2021/01/11	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (µg/L) - TW	2021/01/11	<MDL 0.004	0.01	No	No
Bromoxynil (µg/L) - TW	2021/01/11	<MDL 0.33	5.0	No	No
Carbaryl (µg/L) - TW	2021/01/11	<MDL 0.05	90.0	No	No
Carbofuran (µg/L) - TW	2021/01/11	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (µg/L) - TW	2021/01/11	<MDL 0.17	2.0	No	No
Chlorpyrifos (µg/L) - TW	2021/01/11	<MDL 0.02	90.0	No	No
Diazinon (µg/L) - TW	2021/01/11	<MDL 0.02	20.0	No	No
Dicamba (µg/L) - TW	2021/01/11	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (µg/L) - TW	2021/01/11	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (µg/L) - TW	2021/01/11	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (µg/L) - TW	2021/01/11	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (µg/L) - TW	2021/01/11	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (µg/L) - TW	2021/01/11	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (µg/L) - TW	2021/01/11	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW	2021/01/11	<MDL 0.19	100.0	No	No
Diclofop-methyl (µg/L) - TW	2021/01/11	<MDL 0.4	9.0	No	No
Dimethoate (µg/L) - TW	2021/01/11	<MDL 0.06	20.0	No	No
Diquat (µg/L) - TW	2021/01/11	<MDL 1.0	70.0	No	No
Diuron (µg/L) - TW	2021/01/11	<MDL 0.03	150.0	No	No
Glyphosate (µg/L) - TW	2021/01/11	<MDL 1.0	280.0	No	No
Malathion (µg/L) - TW	2021/01/11	<MDL 0.02	190.0	No	No
Metolachlor (µg/L) - TW	2021/01/11	<MDL 0.01	50.0	No	No
Metribuzin (µg/L) - TW	2021/01/11	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW	2021/01/11	<MDL 0.3	80.0	No	No
Paraquat (µg/L) - TW	2021/01/11	<MDL 1.0	10.0	No	No
PCB (µg/L) - TW	2021/01/11	<MDL 0.04	3.0	No	No
Pentachlorophenol (µg/L) - TW	2021/01/11	<MDL 0.15	60.0	No	No
Phorate (µg/L) - TW	2021/01/11	<MDL 0.01	2.0	No	No
Picloram (µg/L) - TW	2021/01/11	<MDL 1.0	190.0	No	No
Prometryne (µg/L) - TW	2021/01/11	<MDL 0.03	1.0	No	No
Simazine (µg/L) - TW	2021/01/11	<MDL 0.01	10.0	No	No
Terbufos (µg/L) - TW	2021/01/11	<MDL 0.01	1.0	No	No
Tetrachloroethylene (µg/L) - TW	2021/01/11	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW	2021/01/11	<MDL 0.2	100.0	No	No
Triallate (µg/L) - TW	2021/01/11	<MDL 0.01	230.0	No	No
Trichloroethylene (µg/L) - TW	2021/01/11	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (µg/L) - TW	2021/01/11	<MDL 0.25	5.0	No	No
Trifluralin (µg/L) - TW	2021/01/11	<MDL 0.02	45.0	No	No
Vinyl Chloride (µg/L) - TW	2021/01/11	<MDL 0.17	1.0	No	No

NOTE: The most current set of Schedule 24 samples were taken in January 2021. The next set of samples will be taken in January 2026.

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
Lead (µg/L) – Kitchen #2 East Sink - Standing	6.86	µg/L	2021/06/22

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)