

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

<b>Drinking-Water System Number:</b>	220001076
<b>Drinking-Water System Name:</b>	VICTORIA HARBOUR DRINKING WATER SYSTEM
<b>Drinking-Water System Owner:</b>	CORPORATION OF THE TOWNSHIP OF TAY
<b>Drinking-Water System Category:</b>	LARGE MUNICIPAL RESIDENTIAL
<b>Period being reported:</b>	JAN. 1, 2011 – DEC. 31, 2011

<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 Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;">                 450 Park Street                  Victoria Harbour, Ontario                  L0K 2A0             </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input type="text" value="n/a"/></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" value="n/a"/></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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**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:

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 [ x ]

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**

The Victoria Harbour Water Treatment Plant serves the communities of Victoria Harbour, Port McNicoll, Midland Bay Woods, Bayberry Estates and Waubaushene. The plant is located at 45 Lighthouse Crescent in Victoria Harbour. The plant is a surface water treatment plant drawing water from Georgian Bay. The system features seasonal pre-chlorination for Zebra Mussel control followed by treatment consisting of chemically assisted coagulant-flocculation, sedimentation and filtration using dual-media filters with a combination of sand and anthracite coal. Primary disinfection is done by Ultraviolet Light and secondary disinfection is done by Sodium Hypochlorite. The treated water is then pumped to three standpipes, one in each community. This system currently serves approximately 7000 people.

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

Aluminum chloride hydroxide sulphate is used as the Coagulant. Sodium Hypochlorite is used as the disinfectant. A change in chemical dosing is typical during changes in raw water quality, however no abnormal dosages were experienced.

#### **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**

Watermain replacement on Mary Street, Assiniboia St., Fifth and Sixth Ave. in Port McNicoll. Install a temporary booster station within Victoria Harbour.

**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
Aug. 30 2011	Total Coliform	3.00	Count/100mL	Resample, disinfected & flushed right away.	Sept. 1, 2011 Faxed Resolution Sept. 6, 2011

**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	53	0-300	0-1360	0	0-0
Treated	52	0-0	0-3	52	0-680
Distribution	384	0-0	0-0	384	0-121

**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 #)
<b>Turbidity</b>	8760	0.01-0.63 (Avg.0.16)
<b>Chlorine</b>	8760	0.51-2.20 (Avg. 1.56) DIST 0.92-2.83 (Avg. 1.64) TREATED
<b>Fluoride</b> (If the DWS provides fluoridation)	N/A	N/A

*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
DWL 129-102 DWWP 129-202 OPERATIONAL PLAN# 129-402	UV Intensity Flow Rate UV Transmittance UV Lamp Status	Weekly  Weekly	Min. 91 % Max.99 % Avg. 94 %	Percentage  UVT %

**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	Feb 9, 2011	0.02	ug/L	No
Arsenic	Feb 9, 2011	0.30	ug/L	No
Barium	Feb 9, 2011	24.7	ug/L	No
Boron	Feb 9, 2011	13.0	ug/L	No
Cadmium	Feb 9, 2011	0.003	ug/L	No
Chromium	Feb 9, 2011	0.50	ug/L	No
Lead	Feb 9, 2011	0.07	ug/L	No
Mercury	Feb 9, 2011	0.02	ug/L	No
Selenium	Feb 9, 2011	1.00	ug/L	No
Sodium	Feb 9, 2011	14.5	mg/L	No
Uranium	Feb 9, 2011	0.006	ug/L	No
Fluoride	Feb 9, 2011	0.060	mg/L	No
Nitrite	Feb 9, 2011	0.005	mg/L	No
Nitrate	Feb 9, 2011	0.154	mg/L	No

**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	Feb 9, 2011	0.02	ug/L	No
Aldicarb	Feb 9, 2011	0.01	ug/L	No
Aldrin + Dieldrin	Feb 9, 2011	0.01	ug/L	No
Atrazine + N-dealkylated metabolites	Feb 9, 2011	0.01	ug/L	No
Azinphos-methyl	Feb 9, 2011	0.02	ug/L	No
Bendiocarb	Feb 9, 2011	0.01	ug/L	No
Benzene	Feb 9, 2011	0.32	ug/L	No
Benzo(a)pyrene	Feb 9, 2011	0.004	ug/L	No
Bromoxynil	Feb 9, 2011	0.33	ug/L	No
Carbaryl	Feb 9, 2011	0.01	ug/L	No
Carbofuran	Feb 9, 2011	0.01	ug/L	No
Carbon Tetrachloride	Feb 9, 2011	0.16	ug/L	No

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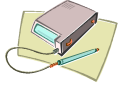
Chlordane (Total)	Feb 9, 2011	0.01	ug/L	No
Chlorpyrifos	Feb 9, 2011	0.02	ug/L	No
Cyanazine	Feb 9, 2011	0.03	ug/L	No
Diazinon	Feb 9, 2011	0.02	ug/L	No
Dicamba	Feb 9, 2011	0.20	ug/L	No
1,2-Dichlorobenzene	Feb 9, 2011	0.41	ug/L	No
1,4-Dichlorobenzene	Feb 9, 2011	0.36	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Feb 9, 2011	0.01	ug/L	No
1,2-Dichloroethane	Feb 9, 2011	0.35	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Feb 9, 2011	0.33	ug/L	No
Dichloromethane	Feb 9, 2011	0.35	ug/L	No
2-4 Dichlorophenol	Feb 9, 2011	0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb 9, 2011	0.19	ug/L	No
Diclofop-methyl	Feb 9, 2011	0.40	ug/L	No
Dimethoate	Feb 9, 2011	0.03	ug/L	No
Dinoseb	Feb 9, 2011	0.36	ug/L	No
Diquat	Feb 9, 2011	1.00	ug/L	No
Diuron	Feb 9, 2011	0.03	ug/L	No
Glyphosate	Feb 9, 2011	6.00	ug/L	No
Heptachlor + Heptachlor Epoxide	Feb 9, 2011	0.01	ug/L	No
Lindane (Total)	Feb 9, 2011	0.01	ug/L	No
Malathion	Feb 9, 2011	0.02	ug/L	No
Methoxychlor	Feb 9, 2011	0.01	ug/L	No
Metolachlor	Feb 9, 2011	0.01	ug/L	No
Metribuzin	Feb 9, 2011	0.02	ug/L	No
Monochlorobenzene	Feb 9, 2011	0.30	ug/L	No
Paraquat	Feb 9, 2011	1.00	ug/L	No
Parathion	Feb 9, 2011	0.02	ug/L	No
Pentachlorophenol	Feb 9, 2011	0.15	ug/L	No
Phorate	Feb 9, 2011	0.01	ug/L	No
Picloram	Feb 9, 2011	0.25	ug/L	No
Polychlorinated Biphenyls(PCB)	Feb 9, 2011	0.04	ug/L	No
Prometryne	Feb 9, 2011	0.03	ug/L	No
Simazine	Feb 9, 2011	0.01	ug/L	No
THM (NOTE: show latest annual average)	Oct 18 2011	50.00	ug/L	No
Temephos	Feb 9, 2011	0.01	ug/L	No
Terbufos	Feb 9, 2011	0.01	ug/L	No
Tetrachloroethylene	Feb 9, 2011	0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	Feb 9, 2011	0.14	ug/L	No
Triallate	Feb 9, 2011	0.01	ug/L	No
Trichloroethylene	Feb 9, 2011	0.43	ug/L	No
2,4,6-Trichlorophenol	Feb 9, 2011	0.25	ug/L	No

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2,4,5-Trichloroacetic acid (2,4,5-T)	Feb 9, 2011	0.22	ug/L	No
Trifluralin	Feb 9, 2011	0.02	ug/L	No
Vinyl Chloride	Feb 9, 2011	0.17	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
N/A			



Details submitted in accordance Subsection 18(1) Safe Drinking Water Act reports to  
Spills Action Centre.....

**WATER TREATMENT PLANT SUBMISSIONS 2011  
VICTORIA HARBOUR**

OCCURRENCE#	PLANT LOCATION	DATE	PARAMETER	SAMPLE LOCATION	RESULT	UNIT MEASURE	CORRECTIVE ACTION / DATE	RESOLUTION DATE
103081	VH WTP	OCCURRENCE: AUG 30/11 ADVISED SEPT 1/11	TTL COLIFORM	MARY & NEY SAMPLE STN	3.00	Count /100 mL	RESAMPLED IMMEDIATELY SEPT 1/11. DISINFECTED AND FLUSHED	SEPT 6/11

MIN TURB.	3.00
MAX. TURB.	3.00

