

Water Supply and Distribution System
Westshore
2022 Annual Report

ANNUAL REPORT

Drinking-Water System Number: Drinking-Water System Name: Drinking-Water System Owner: Drinking-Water System Category: Period being reported:

260061958
West Shore Treatment and Distribution
The Corporation of the Township of Severn
Large Municipal Residential
January 1, 2022, to December 31, 2022

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Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]	Number of Designated Facilities served:
Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []	Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to:
Township of Severn Administrative Office 1024 Hurlwood Lane Severn, Ontario L3V 0Y6	Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []

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 their drinking water from your system:

Drinking Water System Name	Drinking Water System Number		
West Shore Beach Club Distribution System	260095641		

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 [X] No []

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
[X] Public access/notice via Public Request
[] Public access/notice via a Public Library
[] Public access/notice via other method
Describe your Drinking-Water System
Water for the Westshore water treatment plant is pumped from Lake Couchiching, via three low lift pumps located at 3491 Hedgemere Landing, to a package water treatment plant located at 3333 New Brailey Line. The treatment plant consists of a conventional two-train coagulation, flocculation, sedimentation, and filtration plant. Filtered water flows through granular activated carbon tanks for taste and odor removal before being disinfected by ultraviolet light and sodium hypochlorite. Water is then stored in a 1,910 m³ concrete underground reservoir. Backwash water from the filters is sent directly to the sanitary sewage system. Three high lift pumps provide water to the distribution system. The distribution system was constructed in 2005 and consists of PVC water main with PE service piping. There are 12 sample stations, 127 fire hydrants and 7 private hydrants connected to the distribution system. The West Shore system services approximately 901 residential and commercial properties as well as supplying water to 86 homes in the West Shore Beach Club.
List all water treatment chemicals used over this reporting period.
Sodium Hypochlorite
Alum
ClearFloc AP1065 polymer
Were any significant expenses incurred to? [] Install required equipment [] Repair required equipment [X] Replace required equipment
Please provide a brief description and a breakdown of monetary expenses incurred
Backwash pump rebuild-\$40,000.00
3 new sample stations-\$15,000.00
New security gate-\$15,000.00

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

70 0 1 1 1 0 1 1 0 1 1					
Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A					

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 - 26	0 - 1000	N/A	N/A
Treated	53	0 - 0	0 - 0	52	0 - 20
Distribution	166	0-0	0 - 0	109	0 - 14

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Number of Range of Results Grab (min #)-(max #) Samples Turbidity - Train 1 0.03 - 0.13 NTU8760 Turbidity - Train 2 8760 0.08 - 0.15 NTU**Turbidity** 8760 0.05 - 0.11 NTU8760 1.36 - 2.06Chlorine

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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				

1.03 - 1.95

Summary of Inorganic parameters tested during this reporting period or the most recent sample results.

Chlorine Free

Distribution System Fluoride (If the DWS provides fluoridation)

Residual

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	October 24, 2022	0.6	μg/L	No
Arsenic	October 24, 2022	0.3	μg/L	No
Barium	October 24, 2022	26.0	μg/L	No
Boron	October 24, 2022	27	μg/L	No
Cadmium	October 24, 2022	0.003	μg/L	No
Chromium	October 24, 2022	0.12	μg/L	No
*Lead	Jan 24-July 25,	0.03-0.10	μg/L	No
	2022			
Mercury	October 24, 2022	0.01	μg/L	No
Selenium	October 24, 2022	0.05	μg/L	No
Sodium	October 24, 2022	35.2	mg/L	Yes
Uranium	October 24, 2022	0.014	μg/L	No
Fluoride	April 25, 2022	0.06	mg/L	No
Nitrite	January 24, 2022	< 0.003	mg/L	No
	April 25, 2022	< 0.003		
	July 25, 2022	< 0.003		
	October 24, 2022	< 0.003		
Nitrate	January 24, 2022	0.135	mg/L	No
	April 25, 2022	0.081		
	July 25, 2022	0.080		
	October 24, 2022	0.048		

^{*}only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems.

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	22	0.05-0.56	0
Distribution	8	1.47 - 2.78	0

^{*}Note: Lead sample results are from the Westshore Beach Club Distribution System DWS# 260095641*

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	October 24, 2022	0.02	μg/L	No
Atrazine + N-dealkylated metobolites	October 24, 2022	0.01	μg/L	No
Azinphos-methyl	October 24, 2022	0.05	μg/L	No
Benzene	October 24, 2022	0.32	μg/L	No
Benzo(a)pyrene	October 24, 2022	0.004	μg/L	No
Bromoxynil	October 24, 2022	0.33	μg/L	No

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

Carbaryl	October 24, 2022	0.05	μg/L	No
Carbofuran	October 24, 2022	0.01	μg/L	No
Carbon Tetrachloride	October 24, 2022	0.17	μg/L	No
Chlorpyrifos	October 24, 2022	0.02	μg/L	No
Diazinon	October 24, 2022	0.02	μg/L	No
Dicamba	October 24, 2022	0.20	μg/L	No
1,2-Dichlorobenzene	October 24, 2022	0.41	μg/L	No
1,4-Dichlorobenzene	October 24, 2022	0.36	μg/L	No
1,2-Dichloroethane	October 24, 2022	0.35	μg/L	No
1,1-Dichloroethylene	October 24, 2022	0.33	μg/L	No
(vinylidene chloride)	ŕ			
Dichloromethane	October 24, 2022	0.35	μg/L	No
2-4 Dichlorophenol	October 24, 2022	0.15	μg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-	October 24, 2022	0.19	μg/L	No
D)	0 1 21 222	0.40	1 	37
Diclofop-methyl	October 24, 2022	0.40	μg/L	No
Dimethoate	October 24, 2022	0.06	μg/L	No
Diquat	October 24, 2022	<1	μg/L	No
Diuron	October 24, 2022	0.03	μg/L	No
Glyphosate	October 24, 2022	<1	μg/L	No
Haloacetic Acids (HAA5)	2022 Average	28.6	μg/L	No
(NOTE: show latest annual average) Malathion	0 4 1 24 2022	0.02	/T	NI
MCPA	October 24, 2022	0.02	μg/L	No
	October 24, 2022	0.00012	mg/L	No
Metolachlor	October 24, 2022	0.01	μg/L	No
Metribuzin	October 24, 2022	0.02	μg/L	No
Monochlorobenzene	October 24, 2022	0.3	ug/L	No
Paraquat	October 24, 2022	<1	μg/L	No
Pentachlorophenol	October 24, 2022	0.15	μg/L	No
Phorate	October 24, 2022	0.01	μg/L	No
Picloram P. L. L. (PCP)	October 24, 2022	<1	μg/L	No
Polychlorinated Biphenyls(PCB)	October 24, 2022	0.04	μg/L	No
Prometryne	October 24, 2022	0.03	μg/L	No
Simazine	October 24, 2022	0.01	μg/L	No
THM (NOTE: show latest annual average)	2022 Average	42.75	μg/L	No
Terbufos	October 24, 2022	0.01	ug/I	No
Tetrachloroethylene	October 24, 2022	0.01	μg/L μg/L	No
2,3,4,6-Tetrachlorophenol	October 24, 2022	0.33		No
Triallate	October 24, 2022 October 24, 2022	0.20	μg/L μg/L	No
Trichloroethylene	October 24, 2022 October 24, 2022	0.01		No
2,4,6-Trichlorophenol	October 24, 2022 October 24, 2022	0.44	μg/L	No
Trifluralin	October 24, 2022 October 24, 2022	0.23	μg/L	
Vinyl Chloride	· ·		μg/L	No
v myi Chioride	October 24, 2022	0.17	μg/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
Sodium	35.2	mg/L	October 24, 2022