

Water Supply and Distribution System

### West Shore 2020 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, 2020 to December 31, 2020

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	Did you provide a copy of your annual
at no charge on a web site on the Internet?	report to all Designated Facilities you
Yes [X] No [ ]	serve?
	Yes [ ] No [ ]
<b>Location where Summary Report required</b>	
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

[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 West Shore 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 m <sup>3</sup> 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
VV
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
Rebuilt high lift #1- \$35,000.00.
Painted and color-coded fire hydrants- \$15,000.00
Added new fiber communications line from low lift- \$50,000.00.

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

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
November 29, 2020	Sodium	31.7	mg/L	Resample	October 6, 2020

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	52	0 - 20	0 - 440	N/A	N/A
Treated	52	0 - 0	0 - 0	52	0 - 25
Distribution	156	0 - 0	0 - 0	52	0 - 10

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the

period covered by this Annual Report.

	Number of Grab	Range of Results (min #)-(max #)
	Samples	0.00 0.10 17777
Turbidity – Train 1	8760	0.03 – 0.13 NTU
Turbidity – Train 2	8760	0.04 – 0.98 NTU
Turbidity	8760	0.03 – 0.19 NTU
Chlorine	8760	1.30 - 2.03
Chlorine Free		
Residual	368	0.92 - 1.73
<b>Distribution System</b>		
<b>Fluoride</b> (If the DWS provides fluoridation)	1	0.06

**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.

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	October 26, 2020	0.09	μg/L	No
Arsenic	October 26, 2020	0.3	μg/L	No
Barium	October 26, 2020	26.5	μg/L	No
Boron	October 26, 2020	36	μg/L	No
Cadmium	October 26, 2020	0.003	μg/L	No
Chromium	October 26, 2020	0.28	μg/L	No
*Lead	Jan 27-July 27,	0.02-0.08	μg/L	No
	2020			
Mercury	October 26, 2020	0.01	μg/L	No
Selenium	October 26, 2020	0.10	μg/L	No
Sodium	October 26, 2020	31.7	mg/L	Yes
Uranium	October 26, 2020	0.030	μg/L	No
Fluoride	October 26, 2020	0.06	mg/L	No
Nitrite	January 27, 2020	< 0.003	mg/L	No
	April 27, 2020	< 0.003		
	July 27, 2020	< 0.003		
	October 26, 2020	< 0.003		
Nitrate	January 27, 2020	0.173	mg/L	No
	April 27, 2020	0.073		
	July 27, 2020	0.066		
	October 26, 2020	0.046		

<sup>\*</sup>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)

<b>Location Type</b>	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing			
Distribution	4	0.02 - 0.08	0

<sup>\*</sup>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 26, 2020	0.02	μg/L	No
Atrazine + N-dealkylated metobolites	October 26, 2020	0.01	μg/L	No
Azinphos-methyl	October 26, 2020	0.05	μg/L	No
Benzene	October 26, 2020	0.32	μg/L	No
Benzo(a)pyrene	October 26, 2020	0.004	μg/L	No
Bromoxynil	October 26, 2020	0.33	μg/L	No

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

Carbaryl	October 26, 2020	0.05	μg/L	No
Carbofuran	October 26, 2020	0.01	μg/L	No
Carbon Tetrachloride	October 26, 2020	0.17	μg/L	No
Chlorpyrifos	October 26, 2020	0.02	μg/L	No
Diazinon	October 26, 2020	0.02	μg/L	No
Dicamba	October 26, 2020	0.20	μg/L	No
1,2-Dichlorobenzene	October 26, 2020	0.41	μg/L	No
1,4-Dichlorobenzene	October 26, 2020	0.36	μg/L	No
1,2-Dichloroethane	October 26, 2020	0.35	μg/L	No
1,1-Dichloroethylene	October 26, 2020	0.33	μg/L	No
(vinylidene chloride)				
Dichloromethane	October 26, 2020	0.35	μg/L	No
2-4 Dichlorophenol	October 26, 2020	0.15	μg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	October 26, 2020	0.19	μg/L	No
Diclofop-methyl	October 26, 2020	0.40	μg/L	No
Dimethoate	October 26, 2020	0.06	μg/L	No
Diquat	October 26, 2020	<1	μg/L	No
Diuron	October 26, 2020	0.03	μg/L	No
Glyphosate	October 26, 2020	<1	μg/L	No
Haloacetic Acids (HAA5)	2020 Average	21.4	μg/L	No
(NOTE: show latest annual average)			1.8	
Malathion	October 26, 2020	0.02	μg/L	No
MCPA	October 26, 2020	0.00012	mg/L	No
Metolachlor	October 26, 2020	0.01	μg/L	No
Metribuzin	October 26, 2020	0.02	μg/L	No
Monochlorobenzene	October 26, 2020	0.3	ug/L	No
Paraquat	October 26, 2020	<1	μg/L	No
Pentachlorophenol	October 26, 2020	0.15	μg/L	No
Phorate	October 26, 2020	0.01	μg/L	No
Picloram	October 26, 2020	<1	μg/L	No
Polychlorinated Biphenyls(PCB)	October 26, 2020	0.04	μg/L	No
Prometryne	October 26, 2020	0.03	μg/L	No
Simazine	October 26, 2020	0.01	μg/L	No
THM	2020 Average	38.75	μg/L	No
(NOTE: show latest annual average)	0 1 5 5 5 5 5	0.01		
Terbufos	October 26, 2020	0.01	μg/L	No
Tetrachloroethylene	October 26, 2020	0.35	μg/L	No
2,3,4,6-Tetrachlorophenol	October 26, 2020	0.20	μg/L	No
Triallate	October 26, 2020	0.01	μg/L	No
Trichloroethylene	October 26, 2020	0.44	μg/L	No
2,4,6-Trichlorophenol	October 26, 2020	0.25	μg/L	No
Trifluralin	October 26, 2020	0.02	μg/L	No
Vinyl Chloride	October 26, 2020	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	31.7	mg/L	October 26, 2020