



— Township of —

SEVERN

Water Supply and Distribution System

Bass Lake Woodlands 2021 Annual Report



ANNUAL REPORT

Drinking-Water System Number:	220005143
Drinking-Water System Name:	Bass Lake Woodlands Water Supply and Distribution
Drinking-Water System Owner:	The Corporation of the Township of Severn
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2021, to December 31, 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></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;"> Township of Severn Administrative Office 1024 Hurlwood Lane Severn, Ontario L3V 0Y6 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" type="text"/></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 style="width: 100px; height: 20px;" type="text"/></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 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 []



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

Water for Bass Lake Woodlands comes from three (3) ground water wells located at 1852 Ridley Boulevard. Groundwater is pumped from the well into the pump house where it is chlorinated using sodium hypochlorite. It then travels through a 32 m³ chlorine contact tank before being stored in a 136 m³ underground reservoir. Treated water is pumped from the reservoir by three VFD-controlled vertical turbine high lift pumps to the distribution system. The distribution system is comprised of 150 mm PVC water main with copper and PE service lines to the homes. There are four (4) sample stations and three (3) blow-offs located throughout the distribution system. There are no fire hydrants. The system services approximately 450 residents of the community Bass Lake Woodlands.

List all water treatment chemicals used over this reporting period.

Sodium Hypochlorite

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.

New roof on treatment plant-\$6000.00
 New Sample Station-\$5500

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
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 – Well #1	52	0 - 0	0 – 0	N/A	-
Raw – Well #2	52	0 - 0	0 – 0	N/A	-
Raw – Well #3	52	0 - 0	0 – 0	N/A	-
Treated	52	0 – 0	0 – 0	52	0-10
Distribution	104	0 - 0	0 - 0	54	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 Samples	Range of Results (min #)-(max #)
Turbidity – Well #1	12	0.19 – 1.07 NTU
Turbidity – Well #2	12	0.18 – 0.78 NTU
Turbidity – Well #3	12	0.05 – 0.29 NTU
Turbidity	8760	0.01 – 0.39 NTU
Chlorine	8760	0.83 – 1.50
Chlorine Free Residual Distribution System	364	0.50 – 1.44
Fluoride (If the DWS provides fluoridation)	1	0.06mg/L

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.

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	October 28, 2021	0.6	µg/L	No
Arsenic	October 28, 2021	0.2	µg/L	No
Barium	October 28, 2021	237	µg/L	No
Boron	October 28, 2021	22	µg/L	No
Cadmium	October 28, 2021	0.003	µg/L	No



Chromium	October 28, 2021	0.89	µg/L	No
*Lead	Jan 25,2021-Feb 8,2021-July 26, 2021	0.03-0.12		
Mercury	October 27, 2021	0.01	µg/L	No
Selenium	October 28, 2021	0.11	µg/L	No
Sodium	October 25, 2021	58.2	mg/L	Yes
Uranium	October 28, 2021	0.191	µg/L	No
Fluoride	April 26, 2021	0.06	mg/L	No
Nitrite	January 25, 2021 April 26, 2021 July 26, 2021 Oct. 25, 2021	0.003 0.003 0.003 0.003	mg/L	No
Nitrate	January 25, 2021 April 26, 2021 July 26, 2021 Oct. 25, 2021	1.87 1.79 1.74 1.84	mg/L	No

*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	N/A		
Distribution	3	0.03-0.12	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	October28,2021	0.02	µg/L	No
Atrazine + N-dealkylated metabolites	October28,2021	0.01	µg/L	No
Atrazine	October28,2021	0.01	µg/L	No
Azinphos-methyl	October28,2021	0.05	µg/L	No
Benzene	October26,2021	0.32	µg/L	No
Benzo(a)pyrene	October28,2021	0.004	µg/L	No
Bromoxynil	Nov2,2021	0.33	µg/L	No
Carbaryl	October28,2021	0.05	µg/L	No
Carbon tetrachloride	October26,2021	0.17	µg/L	No
Carbofuran	October28,2021	0.01	µg/L	No
Chlorpyrifos	October28,2021	0.02	µg/L	No
Diazinon	October28,2021	0.02	µg/L	No



Dicamba	Nov2,2021	0.20	µg/L	No
1,2-Dichlorobenzene	October26,2021	0.41	µg/L	No
1,4-Dichlorobenzene	October26,2021	0.36	µg/L	No
1,2-Dichloroethane	October26,2021	0.35	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	October26,2021	0.33	µg/L	No
Dichloromethane	October26,2021	0.35	µg/L	No
2-4 Dichlorophenol	Nov 2,2021	0.15	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Nov 2,2021	0.19	µg/L	No
Diclofop-methyl	Nov 2,2021	0.40	µg/L	No
Dimethoate	October28,2021	0.06	µg/L	No
Diquat	Nov 2,2021	<1	µg/L	No
Diuron	October28,2021	0.03	µg/L	No
Glyphosate	Nov 2,2021	1	µg/L	No
Haloacetic Acids (HAA5) (NOTE: show latest annual average)	2021 Average	<5.3	µg/L	No
Malathion	October28,2021	.02	µg/L	No
Metolachlor	October28,2021	0.01	µg/L	No
Metribuzin	October28,2021	0.02	µg/L	No
MCPA	Nov 2,2021	0.00012	mg/L	No
Monochlorobenzene	October26,2021	0.3	µg/L	No
Paraquat	Nov 2,2021	<1	µg/L	No
Pentachlorophenol	Nov 2,2021	0.15	µg/L	No
Phorate	October28,2021	0.01	µg/L	No
Picloram	Nov 2,2021	<1	µg/L	No
Polychlorinated Biphenyls (PCB)	October29,2021	0.04	µg/L	No
Prometryne	October28,2021	0.03	µg/L	No
Simazine	October28,2021	0.01	µg/L	No
THM (NOTE: show latest annual average)	2021 Average	8	µg/L	No
Terbufos	October28,2021	0.01	µg/L	No
Tetrachloroethylene	October26,2021	0.35	µg/L	No
2,3,4,6-Tetrachlorophenol	Nov 2,2021	0.20	µg/L	No
Triallate	October28,2021	0.01	µg/L	No
Trichloroethylene	October26,2021	0.44	µg/L	No
2,4,6-Trichlorophenol	Nov 2,2021	0.25	µg/L	No
Trifluralin	October28,2021	0.02	µg/L	No
Vinyl Chloride	October26,2021	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	58.2	mg/L	October 25, 2021