



**OPTIONAL ANNUAL REPORT TEMPLATE**

<b>Drinking-Water System Number:</b>	220005688
<b>Drinking-Water System Name:</b>	Clarke Crescent Well Water Treatment System
<b>Drinking-Water System Owner:</b>	District Municipality of Muskoka
<b>Drinking-Water System Category:</b>	Small Municipal Residential
<b>Period being reported:</b>	January 01 to December 31, 2022

<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;"> <p>District Municipality of Muskoka 70 Pine Street Bracebridge, Ontario P1L 1N3 (705) 645-6764 www.muskoka.on.ca</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> </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:  <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> </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 [ ]



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 Clarke well system services one subdivision consisting of 34 homes. The system was constructed in 1984. The system had significant upgrades in 2004/2005. The treatment process consists of disinfection by UV, chlorination and filtration. The rated water production capacity of this facility is 90 cubic meters per day. The water is obtained from a drilled well located at 46 Clarke Crescent.

**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**

There were no significant monetary expenses incurred in the 2022 reporting period.

**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
May 04, 2022	Sodium	41.2	mg/L	Reported to SMDHU and MECP as required every 60 months. Resampled. Reported result confirmed >20 mg/L	Ongoing. Historically indicated elevated levels. Must report every 60 months to SMDHU and MECP
Sept 20, 2022	Total Coliform	1	CFU/100mL	Completed two rounds of resamples.	Sept 26, 2022

**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 - 0	0 - 0	0	~
Treated	54	0 - 0	0 - 0	52	0 - 2
Distribution	58	0 - 0	0 - 1* Resampled (0)	52	0 - 1

**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 #)	Geomean	<i>NOTE: For continuous monitors use 8760 as the number of samples.</i>
Turbidity	8760	0.01 – 0.11 NTU	0.08 NTU	
Chlorine	8760	1.25 – 1.80 mg/L	1.59 mg/L	
Fluoride (If the DWS provides fluoridation)	Not in Use	Not in Use		

**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

**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	May 02, 2022	0.9<MDL	µg/L	No
Arsenic	May 02, 2022	0.2<MDL	µg/L	No
Barium	May 02, 2022	20.3	µg/L	No
Boron	May 02, 2022	10.0	µg/L	No
Cadmium	May 02, 2022	0.018	µg/L	No
Chromium	May 02, 2022	0.34	µg/L	No
*Lead				
Mercury	May 02, 2022	0.01<MDL	µg/L	No
Selenium	May 02, 2022	0.06	µg/L	No
Sodium	May 02, 2022	33.6	mg/L	No
Uranium	May 02, 2022	0.064	µg/L	No
Fluoride	May 02, 2022	0.06<MDL	mg/L	No
Nitrite	Feb 07, 2022	0.003<MDL	mg/L	No
Nitrate	Feb 07, 2022	1.00	mg/L	No
Nitrite	May 02, 2022	0.003<MDL	mg/L	No
Nitrate	May 02, 2022	0.988	mg/L	No



Nitrite	Aug 02, 2022	0.003<MDL	mg/L	No
Nitrate	Aug 02, 2022	1.12	mg/L	No
Nitrite	Nov 07, 2022	0.003<MDL	mg/L	No
Nitrate	Nov 07, 202	1.20	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 #)	Unit of Measure	Number of Exceedances
<b>Plumbing</b>				
<b>Distribution</b>	2	0.16 - 0.31	µg/L	0

### 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	May 02, 2022	0.02<MDL	µg/L	No
Atrazine + N-dealkylated metabolites	May 02, 2022	0.01<MDL	µg/L	No
Azinphos-methyl	May 02, 2022	0.05<MDL	µg/L	No
Benzene	May 02, 2022	0.32<MDL	µg/L	No
Benzo(a)pyrene	May 02, 2022	0.004<MDL	µg/L	No
Bromoxynil	May 02, 2022	0.33<MDL	µg/L	No
Carbaryl	May 02, 2022	0.05<MDL	µg/L	No
Carbofuran	May 02, 2022	0.01<MDL	µg/L	No
Carbon Tetrachloride	May 02, 2022	0.17<MDL	µg/L	No
Chlorpyrifos	May 02, 2022	0.02<MDL	µg/L	No
Diazinon	May 02, 2022	0.02<MDL	µg/L	No
Dicamba	May 02, 2022	0.20<MDL	µg/L	No
1,2-Dichlorobenzene	May 02, 2022	0.41<MDL	µg/L	No
1,4-Dichlorobenzene	May 02, 2022	0.36<MDL	µg/L	No
1,2-Dichloroethane	May 02, 2022	0.35<MDL	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	May 02, 2022	0.33<MDL	µg/L	No
Dichloromethane	May 02, 2022	0.35<MDL	µg/L	No
2-4 Dichlorophenol	May 02, 2022	0.15<MDL	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	May 02, 2022	0.19<MDL	µg/L	No
Diclofop-methyl	May 02, 2022	0.40<MDL	µg/L	No
Dimethoate	May 02, 2022	0.06<MDL	µg/L	No
Diquat	May 02, 2022	1<MDL	µg/L	No
Diuron	May 02, 2022	0.03<MDL	µg/L	No
Glyphosate	May 02, 2022	1<MDL	µg/L	No
Malathion	May 02, 2022	0.02<MDL	µg/L	No



<b>MCPA</b>	May 02, 2022	0.00012<MDL	µg/L	No
<b>Metolachlor</b>	May 02, 2022	0.01<MDL	µg/L	No
<b>Metribuzin</b>	May 02, 2022	0.02<MDL	µg/L	No
<b>Monochlorobenzene</b>	May 02, 2022	0.30<MDL	µg/L	No
<b>Paraquat</b>	May 02, 2022	1<MDL	µg/L	No
<b>Pentachlorophenol</b>	May 02, 2022	0.15<MDL	µg/L	No
<b>Phorate</b>	May 02, 2022	0.01<MDL	µg/L	No
<b>Picloram</b>	May 02, 2022	1<MDL	µg/L	No
<b>Polychlorinated Biphenyls(PCB)</b>	May 02, 2022	0.04<MDL	µg/L	No
<b>Prometryne</b>	May 02, 2022	0.03<MDL	µg/L	No
<b>Simazine</b>	May 02, 2022	0.01<MDL	µg/L	No
<b>THM</b> (NOTE: annual average from Distribution – 8 samples)	Samples taken: Feb 07, 2022 May 02, 2022 Aug 02, 2022 Nov 07, 2022	3.5	µg/L	No
<b>Terbufos</b>	May 02, 2022	0.01<MDL	µg/L	No
<b>Tetrachloroethylene</b>	May 02, 2022	0.35<MDL	µg/L	No
<b>2,3,4,6-Tetrachlorophenol</b>	May 02, 2022	0.20<MDL	µg/L	No
<b>Triallate</b>	May 02, 2022	0.01<MDL	µg/L	No
<b>Trichloroethylene</b>	May 02, 2022	0.44<MDL	µg/L	No
<b>2,4,6-Trichlorophenol</b>	May 02, 2022	0.25<MDL	µg/L	No
<b>Trifluralin</b>	May 02, 2022	0.02<MDL	µg/L	No
<b>Vinyl Chloride</b>	May 02, 2022	0.17<MDL	µg/L	No
<b>HAA5</b>	Samples Taken:			
	Feb 07, 2022	5.3<MDL	µg/L	No
	May 02, 2022	5.3<MDL	µg/L	No
	Aug 02, 2022	5.3<MDL	µg/L	No
	Nov 07, 2022	5.3<MDL	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.**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>