



OPTIONAL ANNUAL REPORT TEMPLATE

<b>Drinking-Water System Number:</b>	260001851
<b>Drinking-Water System Name:</b>	Grimsby Distribution System
<b>Drinking-Water System Owner:</b>	Corporation of the Town of Grimsby
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2020 to December 31, 2020

<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 [x] No [ ]</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; height: 100px; width: 100%;"></div>	<p><b><u>Complete for all other Categories.</u></b></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 of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Fifty Road Subsystem	260069173

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.

- 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 Town of Grimsby’s *Grimsby Distribution System* is a stand-alone drinking water distribution system which receives 100% of its drinking water from the Region of Niagara’s *Grimsby Water Treatment Plant* and through connections with the Region of Niagara’s *Grimsby Water System*.

The *Grimsby Distribution System* distributes drinking water to approximately 28,000 customers within the Town of Grimsby and also distributes drinking water to the City of Hamilton’s *Fifty Road Subsystem*, which is located in Winona.

The *Grimsby Distribution System* consists of approximately 131 Km of watermain ranging in size from 100 mm to 300 mm diameter.

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

N/A

**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**

Approximately **2.0 Km** of watermain was installed or replaced in 2020 at an estimated cost of **\$ 1,910,000.00**

**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**

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
2020-06-25	Total Coliform - AWQI 150398	<b>10</b>	CFU/100mL	Re-Sample	2020-06-29
2020-07-16	Total Coliform - AWQI 150759	<b>1</b>	CFU/100mL	Re-Sample	2020-07-21
2020-10-09	Total Coliform - AWQI 152526	<b>1</b>	CFU/100mL	Re-Sample	2020-10-14
2020-10-22	Total Coliform - AWQI 152653	<b>2</b>	CFU/100mL	Re-Sample	2020-10-27



**Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.**

	Number of Samples <sup>1</sup>	Range of E.Coli or Fecal Results (min #) -(max #)	Range of Total Coliform Results (min #) -(max #)	Range of Background Results (min #) -(max #)	Range of HPC Results (min #) -(max #)
Raw	-	-	-	-	-
Treated	-	-	-	-	-
<b>Distribution (Schedule 10)<sup>2</sup></b>	<b>624</b>	<b>0</b>	<b>0</b>	<b>0 - 1</b>	<b>0 - 42</b>
<b>Distribution (Other)<sup>3</sup></b>	<b>107</b>	<b>0</b>	<b>0 -10</b>	<b>0 - 51</b>	<b>0 - 8</b>
<b>Distribution (Other)<sup>3</sup></b>					

<sup>1</sup> All samples collected were tested for E. coli, Total Coliform, HPC and background.

<sup>2</sup> Weekly routine microbiological samples collected per Schedule 10.

<sup>3</sup> Microbiological samples collected in no-routine instances (i.e. watermain breaks, new connections, AWQI follow up resample(s), etc.).

**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	Free Chlorine Rnge of Results (min #) - (max #)	Unit of Measure	Total Chlorine Range of Results (min #) - (max #)	Unit of Measure
Turbidity	-	-	-	-	-
<b>Chlorine (Schedule 6)<sup>1</sup></b>	<b>624</b>	<b>0.71 - 1.37</b>	mg/L	<b>0.85 - 1.51</b>	mg/L
<b>Chlorine (Schedule 7)<sup>2</sup></b>	<b>416</b>	<b>0.46 - 1.37</b>	mg/L	-	-
<b>Chlorine (Schedule 13)<sup>3</sup></b>	<b>12</b>	<b>0.78 - 1.15</b>	mg/L	<b>0.91 - 1.34</b>	mg/L
<b>Chlorine (Schedule 15.1)<sup>4</sup></b>	<b>8</b>	<b>0.81 - 1.15</b>	mg/L	<b>1.04 - 1.31</b>	mg/L
<b>Chlorine (Other)<sup>5</sup></b>	<b>107</b>	<b>0.28 - 1.22</b>	mg/L	<b>0.48 - 1.49</b>	mg/L
<b>Chlorine (Other)<sup>5</sup></b>	<b>1958</b>	<b>0.30 - 1.48</b>	mg/L	-	-
Fluoride	-	-	-	-	-

<sup>1</sup> Chlorine measured when collecting weekly routine microbiological samples per Schedule 10.

<sup>2</sup> Chlorine measured during weekly (typically Tuesdays & Thursdays) operational checks per Schedule 7.

<sup>3</sup> Chlorine measured when collecting quarterly Total Haloacetic Acids (HHAs) and Total Trihalomethane (THM) Samples per Schedule 13.

<sup>4</sup> Chlorine measured when collecting semi-annual lead sample per Schedule 15.1.

<sup>5</sup> Chlorine measured for all other special purposes (i.e. system flushing, watermain breaks, new connections, etc.).

**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	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	No of Samples	Result Value	Unit of Measure	Exceedance
Antimony	-		-	-	-
Arsenic	-		-	-	-
Barium	-		-	-	-
Boron	-		-	-	-
Cadmium	-		-	-	-
Chromium	-		-	-	-
*Lead	-		-	-	-
Mercury	-		-	-	-
Selenium	-		-	-	-
Sodium	-		-	-	-
Uranium	-		-	-	-
Fluoride	-		-	-	-
Nitrite	-		-	-	-
Nitrate	-		-	-	-

\*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	Range of Alkalinity Results (min#) - (max#)	Unit of Measure	Range of pH Results (min#) - (max#)	Unit of Measure
Plumbing	-	-	-	-	-	-	-	-
Distribution	8	0	ug/L	0	86 - 88	mg/L	6.78 – 7.16	pH

**Summary of Organic parameters sampled during this reporting period or the most recent sample test results under Schedule 13**

Parameter	Sample Date & Number of Samples	Result Value	Unit of Measure	Exceedance
Alachlor	-	-	-	-
Aldicarb	-	-	-	-
Aldrin + Dieldrin	-	-	-	-
Atrazine + N-dealkylated metabolites	-	-	-	-
Azinphos-methyl	-	-	-	-
Bendiocarb	-	-	-	-
Benzene	-	-	-	-



Parameter	Sample Date & Number of Samples	Result Value	Unit of Measure	Exceedance
Benzo(a)pyrene	-	-	-	-
Bromoxynil	-	-	-	-
Carbaryl	-	-	-	-
Carbofuran	-	-	-	-
Carbon Tetrachloride	-	-	-	-
Chlordane (Total)	-	-	-	-
Chlorpyrifos	-	-	-	-
Cyanazine	-	-	-	-
Diazinon	-	-	-	-
Dicamba	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-
1,4-Dichlorobenzene	-	-	-	-
Dichlorodiphenyltrichloroethane (DDT) + metabolites	-	-	-	-
1,2-Dichloroethane	-	-	-	-
1,1-Dichloroethylene (vinylidene chloride)	-	-	-	-
Dichloromethane	-	-	-	-
2-4 Dichlorophenol	-	-	-	-
2,4-Dichlorophenoxy acetic acid (2,4-D)	-	-	-	-
Diclofop-methyl	-	-	-	-
Dimethoate	-	-	-	-
Dinoseb	-	-	-	-
Diquat	-	-	-	-
Diuron	-	-	-	-
Glyphosate	-	-	-	-
Heptachlor + Heptachlor Epoxide	-	-	-	-
Lindane (Total)	-	-	-	-
Malathion	-	-	-	-
Methoxychlor	-	-	-	-
Metolachlor	-	-	-	-
Metribuzin	-	-	-	-
Monochlorobenzene	-	-	-	-
Paraquat	-	-	-	-
Parathion	-	-	-	-
Pentachlorophenol	-	-	-	-
Phorate	-	-	-	-
Picloram	-	-	-	-
Polychlorinated Biphenyls(PCB)	-	-	-	-
Prometryne	-	-	-	-
Simazine	-	-	-	-



Parameter	Sample Date & Number of Samples	Result Value	Unit of Measure	Exceedance
Total Haloacetic Acids	2020/01/01 to 2020/12/31 (8 samples)	ND	ug/L	0
Total Trihalomethanes (THM) (Running Annual Average)	2020/01/01 to 2020/12/31 (4 samples)	21.8	ug/L	0
Temephos	-	-	-	-
Terbufos	-	-	-	-
Tetrachloroethylene	-	-	-	-
2,3,4,6-Tetrachlorophenol	-	-	-	-
Triallate	-	-	-	-
Trichloroethylene	-	-	-	-
2,4,6-Trichlorophenol	-	-	-	-
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	-	-	-	-
Trifluralin	-	-	-	-
Vinyl Chloride	-	-	-	-

**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
-	-	-	-

Report Date: January 2020

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B. Wartman  
Director of Public Works