

**OPTIONAL ANNUAL REPORT TEMPLATE**

<b>Drinking-Water System Number:</b>	220007150
<b>Drinking-Water System Name:</b>	Grimsby Water Treatment Plant
<b>Drinking-Water System Owner:</b>	Regional Municipality of Niagara
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	Jan01/07 – Dec 31/07

<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; padding: 5px;">                 Grimsby Water Treatment Plant                  300 North Service Road                  Grimsby, Ontario                  L3M 4E             </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input style="width: 50px; 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: 50px; 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
Town of Grimsby	260001851
Town of Lincoln (Beamsville)	2600043319
Town of West Lincoln	260002876

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 Grimsby Water Treatment Plant is a conventional surface water treatment plant which incorporates zebra mussel control, traveling screens, coagulation, flocculation, sedimentation, filtration, and disinfection in its process. The Grimsby Water treatment supplies water to the towns of Grimsby, Lincoln and West Lincoln in the Regional Municipality of Niagara. The Grimsby Water Treatment Plant is located on Lot 115, Concession 1, in North Grimsby. (NAD 27:UTM Zone 17:614699.0m E., and 4784764.00 N.)

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

Sodium Hypochlorite, Aluminum Sulphate, Poly-Aluminum Chloride

**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**

**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

**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	<2 - 4	<2 - 84	0	n/a
Treated	52	0	0	52	0
Distribution	221	0	0	221	0 - 25

**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	8760	0.04 – 1.245
Chlorine	8760	0.60 – 2.00
Chlorine Residual Distribution System	8760	0.22 – 2.42
Fluoride (If the DWS provides fluoridation)	n/a	n/a

*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
7774-6DNHGT	Total Suspended Solids	Monthly Annual Average	5.7	mg/L

**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	Nov 06/07	0.17	µg/l	0
Arsenic	Nov 06/07	0.7	µg/l	0
Barium	Nov 06/07	20.8	µg/l	0
Boron	Nov 06/07	26	µg/l	0
Cadmium	Nov 06/07	<0.003	µg/l	0
Chromium	Nov 06/07	0.9	µg/l	0
Lead	Nov 06/07	<0.02	µg/l	0
Mercury	Nov 06/07	<0.02	µg/l	0
Selenium	Nov 06/07	<1	µg/l	0
Sodium	Dec 10/07	13.1	mg/l	0
Uranium	Nov 06/07	0.158	µg/l	0
Fluoride	Dec 10/07	0.1	mg/l	0
Nitrite	Dec 10/07	0.449	mg/l	0
Nitrate	Dec 10/07	<0.005	mg/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	Nov 06/07	<0.11	µg/l	0
Aldicarb	Nov 06/07	<0.30	µg/l	0
Aldrin + Dieldrin	Nov 06/07	<0.067	µg/l	0
Atrazine + N-dealkylated metabolites	Nov 06/07	<0.12	µg/l	0
Azinphos-methyl	Nov 06/07	<0.21	µg/l	0
Bendiocarb	Nov 06/07	<0.13	µg/l	0
Benzene	Nov 06/07	<0.37	µg/l	0
Benzo(a)pyrene	Nov 06/07	<0.004	µg/l	0
Bromoxynil	Nov 06/07	<0.33	µg/l	0
Carbaryl	Nov 06/07	<0.16	µg/l	0
Carbofuran	Nov 06/07	<0.37	µg/l	0
Carbon Tetrachloride	Nov 06/07	<0.41	µg/l	0
Chlordane (Total)	Nov 06/07	<0.11	µg/l	0
Chlorpyrifos	Nov 06/07	<0.18	µg/l	0
Cyanazine	Nov 06/07	<0.18	µg/l	0
Diazinon	Nov 06/07	<0.081	µg/l	0
Dicamba	Nov 06/07	<0.20	µg/l	0
1,2-Dichlorobenzene	Nov 06/07	<0.50	µg/l	0
1,4-Dichlorobenzene	Nov 06/07	<0.21	µg/l	0
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Nov 06/07	<0.14	µg/l	0
1,2-Dichloroethane	Nov 06/07	<0.43	µg/l	0

<b>1,1-Dichloroethylene (vinylidene chloride)</b>	Nov 06/07	<0.41	µg/l	0
<b>Dichloromethane</b>	Nov 06/07	<0.34	µg/l	0
<b>2-4 Dichlorophenol</b>	Nov 06/07	<0.15	µg/l	0
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	Nov 06/07	<0.19	µg/l	0
<b>Diclofop-methyl</b>	Nov 06/07	<0.40	µg/l	0
<b>Dimethoate</b>	Nov 06/07	<0.12	µg/l	0
<b>Dinoseb</b>	Nov 06/07	<0.36	µg/l	0
<b>Diquat</b>	Nov 06/07	<1	µg/l	0
<b>Diuron</b>	Nov 06/07	<0.087	µg/l	0
<b>Glyphosate</b>	Nov 06/07	<6	µg/l	0
<b>Heptachlor + Heptachlor Epoxide</b>	Nov 06/07	<0.11	µg/l	0
<b>Lindane (Total)</b>	Nov 06/07	<0.056	µg/l	0
<b>Malathion</b>	Nov 06/07	<0.091	µg/l	0
<b>Methoxychlor</b>	Nov 06/07	<0.14	µg/l	0
<b>Metolachlor</b>	Nov 06/07	<0.092	µg/l	0
<b>Metribuzin</b>	Nov 06/07	<0.12	µg/l	0
<b>Monochlorobenzene</b>	Nov 06/07	<0.58	µg/l	0
<b>Paraquat</b>	Nov 06/07	<1	µg/l	0
<b>Parathion</b>	Nov 06/07	<0.18	µg/l	0
<b>Pentachlorophenol</b>	Nov 06/07	<0.15	µg/l	0
<b>Phorate</b>	Nov 06/07	<0.11	µg/l	0
<b>Picloram</b>	Nov 06/07	<0.25	µg/l	0
<b>Polychlorinated Biphenyls(PCB)</b>	Nov 06/07	<0.04	µg/l	0
<b>Prometryne</b>	Nov 06/07	<0.23	µg/l	0
<b>Simazine</b>	Nov 06/07	<0.15	µg/l	0
<b>THM (NOTE: show latest annual average)</b>	Annual Average	20.6	µg/l	0
<b>Temephos</b>	Nov 06/07	<0.31	µg/l	0
<b>Terbufos</b>	Nov 06/07	<0.12	µg/l	0
<b>Tetrachloroethylene</b>	Nov 06/07	<0.38	µg/l	0
<b>2,3,4,6-Tetrachlorophenol</b>	Nov 06/07	<0.14	µg/l	0
<b>Triallate</b>	Nov 06/07	<0.10	µg/l	0
<b>Trichloroethylene</b>	Nov 06/07	<0.38	µg/l	0
<b>2,4,6-Trichlorophenol</b>	Nov 06/07	<0.25	µg/l	0
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	Nov 06/07	<0.22	µg/l	0
<b>Trifluralin</b>	Nov 06/07	<0.12	µg/l	0
<b>Vinyl Chloride</b>	Nov 06/07	<0.17	µg/l	0

**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>