

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking - Water System Number:	210000639
Drinking - Water System Name:	Rockland Water treatment Plant
Drinking - Water System Owner:	The Corporation of the City of Clarence-Rockland
Drinking - Water System Category:	Large Municipal Residential
Period being reported:	January 1 st to December 31, 2007

<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 [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 Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Municipal Office The City of Clarence-Rockland 1560 Laurier Street Rockland K4K 1P7 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">N/A</div> <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:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">N/A</div> <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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List Drinking-Water Systems, which receive all of their drinking water from your system:

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

Serving the residents of The City of Clarence-Rockland this surface water treatment plant is capable of supplying water at a rate of 13,500 m³/day and consists of the following components; Raw water intake, low lift pumping station including Four (4) vertical turbine pumps, two (2) treatment Actiflow trains followed by two (2) rapid dual media gravity filters, one (1) UV disinfection system consisting of two (2) units, one (1) 233.5 m³ chlorine contact tank, two (2) reservoirs having a total capacity of approximately 395 m³, one (1) booster pumping station complete with three (3) centrifugal pumps and a chloramination chemical feed system, two (2) standby diesel power generator located at booster station & water treatment plant respectively and a chemical feed system consisting of chemical pumps, storage tanks, piping and associated appurtenances to dose Pre-Hydroxylated Aluminum Sulfate, Polyelectrolyte, Sodium Hydroxide, Ammonium Sulphate and Sodium Hypochlorite. This facility operates under Certificate of Approval # 5045-5P5JYS and Permit to Take Water # 88-P-4044.

List all water treatment chemicals used over this reporting period

Pre-Hydroxylated Aluminum Sulfate, Polyelectrolyte, Sodium hydroxide, Ammonium Sulfate and Sodium Hypochlorite.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Describe

- Annual calibration & maintenance on UV system
- new 16" water main from WTP to Notre-Dame St. via highway 17
- new doors at tower

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
20 Oct 07	Total Coliform	9	Cts/100ml	Re Sample	26 Oct 07

Microbiological testing done under section 8-2 during this reporting period

	Number of Samples	Range of E.Coli Or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples Or Background Colony Counts	Range of HPC Results (#-#) Or Background Colony Counts
Raw	51	0 - > 400	0 - 8800	0	
Treated	52	0 - 0	0 - 0	52	0 - 4
Distribution	414	0 - 0	0 - 9	158	0 - <500

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	0.06 – 0.77 NTU
Chlorine	8760	0.2 – 3.59 mg/l
Chlorine Residual Distribution System	8760	0.45 – 3.2 mg/l
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 or order.

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure
9 Jul 2004 (C of A)	Suspended Solids	31 Jan 07	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	21 Feb 07	5	mg/l
9 Jul 2004 (C of A)	Suspended Solids	28 Mars 07	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	24 April 07	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	29 May 07	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	27 Jun 07	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	31 Jul 07	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	30 Aug 07	4	mg/l
9 Jul 2004 (C of A)	Suspended Solids	28 Sept 07	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	31 Oct 07	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	27 Nov 07	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	27 Dec 07	4	mg/l

Summary of Inorganic parameters tested during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	24 Apr 07	<0.0001	mg/l	No
Arsenic	24 Apr 07	<0.0003	mg/l	No
Barium	24 Apr 07	0.019	mg/l	No
Boron	24 Apr 07	0.010	mg/l	No
Cadmium	24 Apr 07	<0.0001	mg/l	No
Chromium	24 Apr 07	<0.002	mg/l	No
Lead	24 Apr 07	<0.0007	mg/l	No
Mercury	24 Apr 07	<0.00002	mg/l	No
Selenium	24 Apr 07	<0.0005	mg/l	No
Uranium	24 Apr 07	<0.00005	mg/l	No
Nitrite	10 Jan 07	<0.1	mg/l	No
Nitrate	10 Jan 07	0.3	mg/l	No
Nitrite	24 Apr 07	<0.1	mg/l	No
Nitrate	24 Apr 07	0.3	mg/l	No
Nitrite	17 Jul 07	<0.1	mg/l	No
Nitrate	17 Jul 07	0.2	mg/l	No
Nitrite	16 Oct 07	<0.1	mg/l	No
Nitrate	16 Oct 07	0.2	mg/l	No

Summary of Organic parameters sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	24 Apr 07	<0.0003	mg/l	No
Aldicarb	24 Apr 07	<0.003	mg/l	No
Aldrin + Dieldrin	24 Apr 07	<0.00002	mg/l	No
Atrazine + N-dealkylated metabolites	24 Apr 07	<0.0005	mg/l	No
Azinphos-methyl	24 Apr 07	<0.001	mg/l	No
Bendiocarb	24 Apr 07	<0.003	mg/l	No
Benzene	24 Apr 07	<0.0005	mg/l	No
Benzo(a)pyrene	24 Apr 07	<0.000005	mg/l	No
Bromoxynil	24 Apr 07	<0.0003	mg/l	No
Carbaryl	24 Apr 07	<0.003	mg/l	No
Carbofuran	24 Apr 07	<0.001	mg/l	No
Carbon Tetrachloride	24 Apr 07	<0.0002	mg/l	No
Chlordane (Total)	24 Apr 07	<0.00004	mg/l	No
Chlorpyrifos	24 Apr 07	<0.0005	mg/l	No
Cyanazine	24 Apr 07	<0.0005	mg/l	No
Diazinon	24 Apr 07	<0.001	mg/l	No
Dicamba	24 Apr 07	<0.005	mg/l	No
1,2-Dichlorobenzene	24 Apr 07	<0.0001	mg/l	No
1,4-Dichlorobenzene	24 Apr 07	<0.0002	mg/l	No

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Dichlorodiphenyltrichloroethane (DDT) + metabolites	24 Apr 07	<0.0001	mg/l	No
1,2-Dichloroethane	24 Apr 07	<0.0001	mg/l	No
1,1-Dichloroethylene (vinylidene chloride)	24 Apr 07	<0.0001	mg/l	No
Dichloromethane	24 Apr 07	<0.0003	mg/l	No
2-4 Dichlorophenol	24 Apr 07	<0.0001	mg/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	24 Apr 07	<0.005	mg/l	No
Diclofop-methyl	24 Apr 07	<0.0004	mg/l	No
Dimethoate	24 Apr 07	<0.001	mg/l	No
Dinoseb	24 Apr 07	<0.0005	mg/l	No
Diquat	24 Apr 07	<0.005	mg/l	No
Diuron	24 Apr 07	<0.005	mg/l	No
Glyphosate	24 Apr 07	<0.025	mg/l	No
Heptachlor + Heptachlor Epoxide	24 Apr 07	<0.0001	mg/l	No
Linadane (Total)	24 Apr 07	<0.0001	mg/l	No
Malathion	24 Apr 07	<0.005	mg/l	No
Methoxychlor	24 Apr 07	<0.0001	mg/l	No
Metolachlor	24 Apr 07	<0.003	mg/l	No
Metribuzin	24 Apr 07	<0.003	mg/l	No
Monochlorobenzene	24 Apr 07	<0.0002	mg/l	No
Paraquat	24 Apr 07	<0.001	mg/l	No
Parathion	24 Apr 07	<0.003	mg/l	No
Pentachlorophenol	24 Apr 07	<0.0001	mg/l	No
Phorate	24 Apr 07	<0.0003	mg/l	No
Picloram	24 Apr 07	<0.005	mg/l	No
Polychlorinated Biphenyls(PCB)	24 Apr 07	<0.00005	mg/l	No
Prometryne	24 Apr 07	<0.0001	mg/l	No
Simazine	24 Apr 07	<0.0005	mg/l	No
THM (NOTE: show latest annual average)	16 Oct 07	0.057	mg/l	No
Temephos	24 Apr 07	<0.01	mg/l	No
Terbufos	24 Apr 07	<0.0003	mg/l	No
Tetrachloroethylene	24 Apr 07	<0.0002	mg/l	No
2,3,4,6-Tetrachlorophenol	24 Apr 07	<0.0001	mg/l	No
Triallate	24 Apr 07	<0.01	mg/l	No
Trichloroethylene	24 Apr 07	<0.0001	mg/l	No
2,4,6-Trichlorophenol	24 Apr 07	<0.0001	mg/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	24 Apr 07	<0.01	mg/l	No
Trifluralin	24 Apr 07	<0.0005	mg/l	No
Vinyl Chloride	24 Apr 07	<0.0002	mg/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

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)