

**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, 2010

<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: 5px; width: fit-content; margin-left: 20px;">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: 5px; width: fit-content; margin-left: 20px;">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>
---	---

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
- [x] 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 Three (3) 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 (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 # 1452 – 7YYMUU and Permit to Take Water # 2563 – 7H9QE8.

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

- Replaced treated flow meter February 2nd
- Inlet Rotork valve failure for Actiflo #2, May 20th
- Aspec installed filter efficiency tracking in SCADA, July
- Hydra-Spec started hydrant inspection in Rockland, July 26th to Aug.17th
- Replaced communication board in Meunier PLC, Jul.26th
- BWA for lost of pressure, July 26th and rescinded July 27th
- Hydra-Spec started hydrant repairs Aug. 11th
- Replaced pressure transducer at Rockland tower Aug.3rd
- Replaced 2nd communication board in Meunier PLC, Aug.20th
- Cleaned out low lift well, Aug. 20th
- Chloramination on line and UDF started Oct.12th
- Flexend installed on Edwards st. Oct.25th
- Drained water tower for repairs Nov.16th
- Repairs to tower done by Dec.1st

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 Jan. 10	Total Coliforms	7	Mg/l	Re Sample	20 Jan. 10
26 July 10	Loss of Pressure			Restore pressure, Flush and sample, Boil Water Advisory Issued	26 July 10
27 July 10				BWA rescinded	

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	52	0 - 368	0 – 7500		
Treated	53	0 – 0	0 – 7	53	0 – 500
Distribution	418	0 – 0	0 - 0	158	0 - 134

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	0.05 - 0.58 NTU
Chlorine	8760	0.04 – 2.2 mg/l
Chlorine Residual Distribution System	8760	0.14 – 1.7 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	12 Jan 10	5	mg/l
9 Jul 2004 (C of A)	Suspended Solids	25 Feb 10	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	23 Mar 10	6	mg/l
9 Jul 2004 (C of A)	Suspended Solids	20 Apr 10	7	mg/l
9 Jul 2004 (C of A)	Suspended Solids	18 May 10	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	22 Jun 10	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	23 Jul 10	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	24 Aug 10	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	29 Sep 10	4	mg/l
9 Jul 2004 (C of A)	Suspended Solids	19 Oct 10	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	29 Dec 10	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	12 April 10	<0.0001	mg/l	No
Arsenic	12 April 10	<0.0001	mg/l	No
Barium	12 April 10	0.019	mg/l	No
Boron	12 April 10	<0.005	mg/l	No
Cadmium	12 April 10	<0.00002	mg/l	No
Chromium	12 April 10	<0.002	mg/l	No
Mercury	12 April 10	<0.00002	mg/l	No
Selenium	12 April 10	<0.001	mg/l	No
Uranium	12 April 10	<0.00005	mg/l	No
Nitrite	10 Feb 10	<0.1	mg/l	No
Nitrate	10 Feb 10	0.3	mg/l	No
Nitrite	12 April 10	<0.1	mg/l	No
Nitrate	12 April 10	<0.3	mg/l	No
Nitrite	20 Jul 10	<0.1	mg/l	No
Nitrate	20 Jul 10	0.2	mg/l	No
Nitrite	19 Oct 10	<0.1	mg/l	No
Nitrate	19 Oct 10	0.2	mg/l	No

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	61	<0.00002 – 0.00955	0
Distribution	18	<0.00002 – 0.00269	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	12 April 10	<0.0003	mg/l	No
Aldicarb	12 April 10	<0.003	mg/l	No
Aldrin + Dieldrin	12 April 10	<0.00002	mg/l	No
Atrazine + N-dealkylated metabolites	12 April 10	<0.0005	mg/l	No
Azinphos-methyl	12 April 10	<0.001	mg/l	No
Bendiocarb	12 April 10	<0.003	mg/l	No
Benzene	12 April 10	<0.0005	mg/l	No
Benzo(a)pyrene	12 April 10	<0.000005	mg/l	No
Bromoxynil	12 April 10	<0.0003	mg/l	No
Carbaryl	12 April 10	<0.003	mg/l	No
Carbofuran	12 April 10	<0.001	mg/l	No
Carbon Tetrachloride	12 April 10	<0.0002	mg/l	No
Chlordane (Total)	12 April 10	<0.00004	mg/l	No
Chlorpyrifos	12 April 10	<0.0005	mg/l	No
Cyanazine	12 April 10	<0.0005	mg/l	No
Diazinon	12 April 10	<0.001	mg/l	No
Dicamba	12 April 10	<0.005	mg/l	No
1,2-Dichlorobenzene	12 April 10	<0.0001	mg/l	No
1,4-Dichlorobenzene	12 April 10	<0.0002	mg/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	12 April 10	<0.0001	mg/l	No
1,2-Dichloroethane	12 April 10	<0.0001	mg/l	No
1,1-Dichloroethylene (vinylidene chloride)	12 April 10	<0.0001	mg/l	No
Dichloromethane	12 April 10	<0.0003	mg/l	No
2-4 Dichlorophenol	12 April 10	<0.0001	mg/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	12 April 10	<0.005	mg/l	No
Diclofop-methyl	12 April 10	<0.0005	mg/l	No
Dimethoate	12 April 10	<0.001	mg/l	No
Dinoseb	12 April 10	<0.0005	mg/l	No
Diquat	12 April 10	<0.005	mg/l	No
Diuron	12 April 10	<0.005	mg/l	No
Glyphosate	12 April 10	<0.025	mg/l	No
Heptachlor + Heptachlor Epoxide	12 April 10	<0.0001	mg/l	No
Linadane (Total)	12 April 10	<0.0001	mg/l	No
Malathion	12 April 10	<0.005	mg/l	No
Methoxychlor	12 April 10	<0.0001	mg/l	No
Metolachlor	12 April 10	<0.003	mg/l	No
Metribuzin	12 April 10	<0.003	mg/l	No
Monochlorobenzene	12 April 10	<0.0002	mg/l	No
Paraquat	12 April 10	<0.001	mg/l	No
Parathion	12 April 10	<0.003	mg/l	No

Pentachlorophenol	12 April 10	<0.0001	mg/l	No
Phorate	12 April 10	<0.0003	mg/l	No
Picloram	12 April 10	<0.005	mg/l	No
Polychlorinated Biphenyls(PCB)	12 April 10	<0.00005	mg/l	No
Prometryne	12 April 10	<0.0001	mg/l	No
Simazine	12 April 10	<0.0005	mg/l	No
THM (NOTE: show latest annual average)	19 Oct 10	0.062	mg/l	No
Temephos	12 April 10	<0.010	mg/l	No
Terbufos	12 April 10	<0.0003	mg/l	No
Tetrachloroethylene	12 April 10	<0.0002	mg/l	No
2,3,4,6-Tetrachlorophenol	12 April 10	<0.0001	mg/l	No
Triallate	12 April 10	<0.010	mg/l	No
Trichloroethylene	12 April 10	<0.0001	mg/l	No
2,4,6-Trichlorophenol	12 April 10	<0.0001	mg/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	12 April 10	<0.010	mg/l	No
Trifluralin	12 April 10	<0.0005	mg/l	No
Vinyl Chloride	12 April 10	<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)