

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

Drinking-Water System Number:	220002716
Drinking-Water System Name:	Kincardine Drinking Water System
Drinking-Water System Owner:	Municipality of Kincardine
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	Year 2011

<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 [] 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>Municipal Administration Centre 1475 Concession 5, RR #5 Kincardine, Ontario N2Z 2X6</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></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: <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></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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List Drinking-Water Systems, which receive all of their drinking water from your system:

Huronville Subdivision Distribution System, WW #260046709

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 [] NA []

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 _____ Notification by mail _____

Describe your Drinking-Water System

The Kincardine Water System consists of a surface water treatment plant that receives water from Lake Huron. The water treatment plant provides conventional filtration and consists of 2 Actiflo clarifiers, 4 filters, chlorination system and underground reservoir. The intake capacity is 18,750 m³/d. The distribution system serves the town of Kincardine and residents north of the town via a pipeline, plus the Huronville subdivision, with a total of approximately 3600 connections.

List all water treatment chemicals used over this reporting period

Chlorine Gas
 Clarion A5
 Magnafloc (Polymer)

Were any significant expenses incurred to?

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

Describe

Air Compressor Maintenance - \$3,337.77
 Generator Maintenance - \$3,769.21
 Chlorine System - \$15,295.25
 Analytical Equipment - \$5,712.19
 Distribution System - \$109,253.77
 Water Meter Replacement Program - \$6,614.40
 Actiflo Sensors - \$2300.00

Plus the cost of a Water Rate Study and Financial Plan - \$7,119.00

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
April 1, 2011 AWQI#100390	Total Coliform	24	cfu/100mL	Resampled	April 1, 2011

Microbiological testing done under Schedule 10 during this reporting period

	Number of Samples	Range of Total Coliform Results (#-#)	Range of E. coli Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	52	0 – 1520	0 – 65	52	1 – 580
Treated	52	0 – 24	0 – 0	52	0 – 34
Distribution	261	0 – 0	0 – 0	261	0 – >2000

Operational testing done under Schedule 7 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	0.076 – 1.99
Chlorine	8760	0.67 – 2.06
Distribution System Free Chlorine Residual	365	0.23 – 1.17

NOTE: For continuous monitors, 8760 is used as the number of samples.

Summary of additional testing and sampling carried out in accordance with the requirement of a Licence or Order.

Date C of A	Parameter	Date Sampled	Result	Unit of Measure
--none--				

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Oct 11/11	0.25	ug/L	No
Arsenic	Oct 11/11	0.7	ug/L	No
Barium	Oct 11/11	14.6	ug/L	No
Boron	Oct 11/11	15	ug/L	No
Cadmium	Oct 11/11	<0.004	ug/L	No
Chromium	Oct 11/11	0.7	ug/L	No
Mercury	Oct 11/11	< 0.02	ug/L	No
Selenium	Oct 11/11	< 1	ug/L	No
Sodium	Feb 3/09	4.2	mg/L	No
Uranium	Oct 11/11	0.028	ug/L	No
Fluoride	Sept 29/08	0.08	mg/L	No
Nitrite	Jan 10/11	<0.005	mg/L	No
	Apr 11/11	<0.005		
	July 11/11	<0.005		
	Oct 11/11	<0.005		
Nitrate	Jan 10/11	0.871	mg/L	No
	Apr 11/11	0.391		
	July 11/11	0.359		
	Oct 11/11	0.278		

Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results (ug/L)	Number of Exceedances
Plumbing	92	0.08 – 16.9	0
Distribution	8	0.03 – 6.47	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Oct 11/11	< 0.02	ug/L	No
Aldicarb	Oct 11/11	< 0.01	ug/L	No
Aldrin + Dieldrin	Oct 11/11	< 0.01	ug/L	No
Atrazine + N-dealkylated metabolites	Oct 11/11	0.03	ug/L	No
Azinphos-methyl	Oct 11/11	< 0.02	ug/L	No
Bendiocarb	Oct 11/11	< 0.01	ug/L	No
Benzene	Oct 11/11	< 0.32	ug/L	No
Benzo(a)pyrene	Oct 11/11	< 0.004	ug/L	No
Bromoxynil	Oct 11/11	< 0.33	ug/L	No
Carbaryl	Oct 11/11	< 0.01	ug/L	No
Carbofuran	Oct 11/11	< 0.01	ug/L	No
Carbon Tetrachloride	Oct 11/11	< 0.16	ug/L	No
Chlordane (Total)	Oct 11/11	< 0.01	ug/L	No
Chlorpyrifos	Oct 11/11	< 0.02	ug/L	No
Cyanazine	Oct 11/11	< 0.03	ug/L	No
Diazinon	Oct 11/11	< 0.02	ug/L	No
Dicamba	Oct 11/11	< 0.20	ug/L	No
1,2-Dichlorobenzene	Oct 11/11	< 0.41	ug/L	No
1,4-Dichlorobenzene	Oct 11/11	< 0.36	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Oct 11/11	< 0.01	ug/L	No
1,2-Dichloroethane	Oct 11/11	< 0.35	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Oct 11/11	< 0.33	ug/L	No
Dichloromethane	Oct 11/11	< 0.35	ug/L	No
2-4 Dichlorophenol	Oct 11/11	< 0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Oct 11/11	< 0.19	ug/L	No
Diclofop-methyl	Oct 11/11	< 0.40	ug/L	No
Dimethoate	Oct 11/11	< 0.03	ug/L	No
Dinoseb	Oct 11/11	< 0.36	ug/L	No
Diquat	Oct 11/11	< 1	ug/L	No
Diuron	Oct 11/11	< 0.03	ug/L	No
Glyphosate	Oct 11/11	< 6	ug/L	No
Heptachlor + Heptachlor Epoxide	Oct 11/11	< 0.01	ug/L	No
Lindane (Total)	Oct 11/11	< 0.01	ug/L	No
Malathion	Oct 11/11	< 0.02	ug/L	No
Methoxychlor	Oct 11/11	< 0.01	ug/L	No
Metolachlor	Oct 11/11	< 0.01	ug/L	No
Metribuzin	Oct 11/11	< 0.02	ug/L	No
Monochlorobenzene	Oct 11/11	< 0.3	ug/L	No
Paraquat	Oct 11/11	< 1	ug/L	No
Parathion	Oct 11/11	< 0.02	ug/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Pentachlorophenol	Oct 11/11	< 0.15	ug/L	No
Phorate	Oct 11/11	< 0.01	ug/L	No
Picloram	Oct 11/11	< 0.25	ug/L	No
Polychlorinated Biphenyls (PCB)	Oct 11/11	< 0.04	ug/L	No
Prometryne	Oct 11/11	< 0.03	ug/L	No
Simazine	Oct 11/11	< 0.01	ug/L	No
THM (distribution) (2011 annual average = 23.3 ug/L)	Jan 10/11 Apr 11/11 July 11/11 Oct 11/11	22 23 24 24	ug/L	No
Temephos	Oct 11/11	< 0.01	ug/L	No
Terbufos	Oct 11/11	< 0.01	ug/L	No
Tetrachloroethylene	Oct 11/11	< 0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	Oct 11/11	< 0.14	ug/L	No
Triallate	Oct 11/11	< 0.01	ug/L	No
Trichloroethylene	Oct 11/11	< 0.44	ug/L	No
2,4,6-Trichlorophenol	Oct 11/11	0.57	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Oct 11/11	< 0.22	ug/L	No
Trifluralin	Oct 11/11	< 0.02	ug/L	No
Vinyl Chloride	Oct 11/11	< 0.17	ug/L	No

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
--none--			