

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220002716
Drinking-Water System Name:	Kincardine Water Treatment Plant
Drinking-Water System Owner:	Municipality of Kincardine
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	Year 2008

<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;"> Municipal Administration Centre 1475 Concession 5, RR #5 Kincardine, Ontario N2Z 2X6 </div>	<p><u>Complete for all other Categories.</u></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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List Drinking-Water Systems, which receive all of their drinking water from your system:

Huronville Subdivision

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 3300 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

Residential Water Meter Replacement Program, \$108,655.69

Additional Backwash Pump, \$6118.30

Streaming Current Monitor, \$8,600.00

Backup Generator Maintenance, \$703.36

Plant Monitoring, \$4538.61

High Lift Pump Repairs, \$538.00

Surface Wash Piping Upgrades, \$536.89

Polymer System Repairs, \$1400.00

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
Feb 21/08 AWQI #78026	Total Coliform	7	cfu/100 mL	Resample	Feb 21/08
July 4/08 AWQI #80505	Total Coliform E. coli	3 3	cfu/100 mL	Resample	July 4/08
Oct 23/08 AWQI #84903	Distribution Chlorine	0.01	mg/L	Flush and resample	Oct 23/08

Microbiological testing done under Schedule 10 during this reporting period

	Number of Samples	Range of E. coli Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	53	0 – 8800	0 – 240	53	0 – > 2000
Treated	53	0 – 0	0 – 0	53	0 – 2
Distribution	266	0 – 3	0 – 7	266	0 – 59

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

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	0.07 – 1.99*
Chlorine	8760	0.51 – 2.06
Distribution System Free Chlorine Residual	366	0.4 – 1.24

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

*Turbidity > 1 NTU occurred during changes in duty pumps and was < 15 minutes

Summary of additional testing and sampling carried out in accordance with the requirement of an approval 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	Sept 29/08	0.19	ug/L	No
Arsenic	Sept 29/08	0.4	ug/L	No
Barium	Sept 29/08	14.1	ug/L	No
Boron	Sept 29/08	16.3	ug/L	No
Cadmium	Sept 29/08	0.004	ug/L	No
Chromium	Sept 29/08	< 0.5	ug/L	No
Lead (distribution sampling prior to Schedule 15.1)	Sept 10/07	1.4	ug/L	No
Mercury	Sept 29/08	< 0.02	ug/L	No
Selenium	Sept 29/08	< 1	ug/L	No
Sodium	Sept 4/03	4.11	mg/L	No
Uranium	Sept 29/08	0.073	ug/L	No
Fluoride	Sept 29/08	0.08	mg/L	No
Nitrite	Jan 7/08 April 7/08 July 7/08 Sept 29/08	<0.005 <0.005 <0.005 <0.005	mg/L	No
Nitrate	Jan 7/08 April 7/08 July 7/08 Sept 29/08	1.08 0.466 0.356 0.274	mg/L	No

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	88 sites x 2 = 176	0.02 - 8.06	0
Distribution	16	0.02 - 1.61	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Sept 29/08	< 0.11	ug/L	No
Aldicarb	Sept 29/08	< 0.3	ug/L	No
Aldrin + Dieldrin	Sept 29/08	< 0.067	ug/L	No
Atrazine + N-dealkylated metabolites	Sept 29/08	< 0.12	ug/L	No
Azinphos-methyl	Sept 29/08	< 0.21	ug/L	No
Bendiocarb	Sept 29/08	< 0.13	ug/L	No
Benzene	Sept 29/08	< 0.37	ug/L	No
Benzo(a)pyrene	Sept 29/08	< 0.004	ug/L	No
Bromoxynil	Sept 29/08	< 0.33	ug/L	No
Carbaryl	Sept 29/08	< 0.16	ug/L	No
Carbofuran	Sept 29/08	< 0.37	ug/L	No
Carbon Tetrachloride	Sept 29/08	< 0.41	ug/L	No
Chlordane (Total)	Sept 29/08	< 0.11	ug/L	No
Chlorpyrifos	Sept 29/08	< 0.18	ug/L	No
Cyanazine	Sept 29/08	< 0.18	ug/L	No
Diazinon	Sept 29/08	< 0.081	ug/L	No
Dicamba	Sept 29/08	< 0.20	ug/L	No
1,2-Dichlorobenzene	Sept 29/08	< 0.50	ug/L	No
1,4-Dichlorobenzene	Sept 29/08	< 0.21	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Sept 29/08	< 0.14	ug/L	No
1,2-Dichloroethane	Sept 29/08	< 0.43	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Sept 29/08	< 0.41	ug/L	No
Dichloromethane	Sept 29/08	< 0.34	ug/L	No
2-4 Dichlorophenol	Sept 29/08	< 0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Sept 29/08	< 0.19	ug/L	No
Diclofop-methyl	Sept 29/08	< 0.40	ug/L	No
Dimethoate	Sept 29/08	< 0.12	ug/L	No
Dinoseb	Sept 29/08	< 0.36	ug/L	No
Diquat	Sept 29/08	< 1	ug/L	No
Diuron	Sept 29/08	< 0.087	ug/L	No
Glyphosate	Sept 29/08	< 6	ug/L	No
Heptachlor + Heptachlor Epoxide	Sept 29/08	< 0.11	ug/L	No
Linadane (Total)	Sept 29/08	< 0.056	ug/L	No
Malathion	Sept 29/08	< 0.091	ug/L	No
Methoxychlor	Sept 29/08	< 0.14	ug/L	No
Metolachlor	Sept 29/08	< 0.092	ug/L	No
Metribuzin	Sept 29/08	< 0.12	ug/L	No
Monochlorobenzene	Sept 29/08	< 0.58	ug/L	No
Paraquat	Sept 29/08	< 1	ug/L	No
Parathion	Sept 29/08	< 0.18	ug/L	No
Pentachlorophenol	Sept 29/08	< 0.15	ug/L	No

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Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Phorate	Sept 29/08	< 0.11	ug/L	No
Picloram	Sept 29/08	< 0.25	ug/L	No
Polychlorinated Biphenyls (PCB)	Sept 29/08	< 0.04	ug/L	No
Prometryne	Sept 29/08	< 0.23	ug/L	No
Simazine	Sept 29/08	< 0.15	ug/L	No
THM (distribution) (2008 annual average)	Jan 7/08 April 7/08 July 7/08 Sept 29/08	22.8	ug/L	No
Temephos	Sept 29/08	< 0.31	ug/L	No
Terbufos	Sept 29/08	< 0.12	ug/L	No
Tetrachloroethylene	Sept 29/08	< 0.45	ug/L	No
2,3,4,6-Tetrachlorophenol	Sept 29/08	< 0.14	ug/L	No
Triallate	Sept 29/08	< 0.10	ug/L	No
Trichloroethylene	Sept 29/08	< 0.38	ug/L	No
2,4,6-Trichlorophenol	Sept 29/08	< 0.25	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Sept 29/08	< 0.22	ug/L	No
Trifluralin	Sept 29/08	< 0.12	ug/L	No
Vinyl Chloride	Sept 29/08	< 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			