

Ministry of the Ministère de

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2 Section 11. ANNUAL REPORT.

Drinking-Water System Number: Drinking-Water System Name: Drinking-Water System Owner: Drinking-Water System Category: Period being reported: 220009194
Hamilton Drive Water Supply System
The Corporation of the Township of Guelph Eramosa
Large Municipal Residential
January 1, 2005 – December 31, 2005

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]	Number of Designated Facilities served:
Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []	Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to: Did you provide a copy of your annual report
Township Guelph-Eramosa 8348 Wellington Road, 124 PO Box 3000 Rockwood Ontario, N0B 2K0	to all Interested Authorities you report to for each Designated Facility? Yes [] No []

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
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 [] Not Applicable [X]



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Indicate how you notified system users that your annual report is available, and is free of charge.

 [X] Public access/notice via the web [X] Public access/notice via Government Office [] Public access/notice via a newspaper [X] Public access/notice via Public Request [] Public access/notice via a Public Library [X] Public access/notice via other method - notice via Water or Tax Bills
Describe your Drinking-Water System
The Hamilton Drive Water Supply System is located in the Township of Guelph-Eramosa. This water system consists of two municipal groundwater wells, two pumphouses , one standpipe and distribution system.
There is one well and in ground reservoir in each of the pumphouses and the water level in the reservoir starts and stops the well pumps. The raw water from each well is chlorinated to protect against microbial contaminents prior to discharge into the reservoir. The raw water is disinfected with a sodium hypochlorite solution (chlorine).
The treated water is pumped with high-lift pumps at each station through the distribution system which consists of approximately 21 kilometers of watermain. The high lift pumps operate based on the water level in the standpipe. Once the low water level in the standpipe is reached, the pump stations are called upon to operate in sequence and supply the distribution system and any excess water fills the standpipe to the high water level. This system is a demand/storage system; once the standpipe is full, the high lift pumps shut down until the water level drops in the tower and the pumps are required again.
List all water treatment chemicals used over this reporting period
Sodium Hypochlorite (12% solution) - disinfection
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
There were no significant expenses incurred during this reporting period to install, repair or replace required equipment



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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
Aug. 22/05	Total Coliform	1	CFU/ 100ml	Resample	Aug.24/05

Microbiological testing done under the Schedule 10 of Regulation 170/03, during this reporting

period.

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	# of Samples	E.coli (min – max)	Total Coliform (min – max)	# of HPC Samples	HPC (min – max)	# of Bkgrd Samples	Bkgnd (min - max)
Raw	102	0 - 0	0 - 0	4	0 - 0	2	0 - 0
Treated	102	0 - 0	0 - 0	70	0 - 2	34	0 - 4
Distribution	163	0 - 0	0 - 1	109	0 - 4	52	0 - 20

Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this

Annual Report.

	Number of Grab Samples	Range of Results (min – max)
Raw Water		
Turbidity (Huntington)	20	0.07-1.30 NTU
Turbidity (Cross Creek)	21	0.06-0.42 NTU
Treated Water		
Turbidity (Huntington)	8760	$.02 - 4.0 \text{ NTU}^{-1}$
Turbidity (Cross Creek)	8760	$.01 - 5.0 \text{ NTU}^{-1}$
Chlorine Residual (Huntington)	8760	$.30 - 5.0^{2}$
Chlorine Residual (Cross Creek)	8760	.32 - 2.57
Distribution System		
Chlorine Residual	8760	.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
	N/A	1		

¹ Turbidity Spikes Mechanically Related

² Chlorine Spikes Mechanically Related

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

Parameter	Sample Date	Result Value	Unit of	Exceedance
	•		Measure	
		HUNTING	TON	
Antimony	Aug 19/03	< 0.6	ug/l	No
Arsenic	Aug 19/03	<2	ug/l	No
Barium	Aug 19/03	41	ug/l	No
Boron	Aug 19/03	26	ug/l	No
Cadmium	Aug 19/03	< 0.1	ug/l	No
Chromium	Aug 19/03	<3	ug/l	No
Lead Distribution	July 07/05	< 0.1	ug/l	No
Mercury	Aug 19/03	< 0.1	ug/l	No
Selenium	Aug 19/03	<3	ug/l	No
Sodium	Aug 19/03	11.6	mg/l	No
Uranium	Aug 19/03	0.05	ug/l	No
Fluoride	Aug 19/03	0.14	mg/l	No
Nitrite	Jan. 17/05	< 0.043		
	Apr. 11/05	< 0.005	mg/l	No
	July 07/05	< 0.005		110
	Oct. 05/05	< 0.005		
Nitrate	Jan. 17/05	< 0.013		
	Apr. 11/05	< 0.013	mg/l	No
	July 07/05	0.013		110
	Oct. 05/05	< 0.013		

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

Parameter	Sample Date	Result Value	Unit of	Exceedance
	•		Measure	
		CROSS CR	EEK	
Antimony	Aug 19/03	< 0.6	ug/l	No
Arsenic	Aug 19/03	<2	ug/l	No
Barium	Aug 19/03	36	ug/l	No
Boron	Aug 19/03	28	ug/l	No
Cadmium	Aug 19/03	< 0.1	ug/l	No
Chromium	Aug 19/03	<3	ug/l	No
Lead Distribution	July 07/05	< 0.1	ug/l	No
Mercury	Aug 19/03	< 0.1	ug/l	No
Selenium	Aug 19/03	<3	ug/l	No
Sodium	Aug 19/03	7.6	mg/l	No
Uranium	Aug 19/03	< 0.05	ug/l	No
Fluoride	Aug 19/03	0.12	mg/l	No
Nitrite	Jan. 17/05	< 0.005		
	Apr. 11/05	< 0.005		
	July 07/05	< 0.005	mg/l	No
	Oct. 05/05	< 0.005		



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	CROSS CREEK (cont'd)							
Nitrate	Jan. 17/05	< 0.013						
	Apr. 11/05	< 0.013	m c /1	No				
	July 07/05	0.013	mg/l	No				
	Oct. 05/05	< 0.013						

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
	HUNTINGT(ON	Measure	
Alachlor	Aug 19/03	<0.11	ug/l	No
Aldicarb	Aug 19/03	<0.30	ug/l	No
Aldrin + Dieldrin	Aug 19/03	< 0.067	ug/l	No
Atrazine + N-dealkylated metobolites	Aug 19/03	<0.12	ug/l	No
Azinphos-methyl	Aug 19/03	<0.21	ug/l	No
Bendiocarb	Aug 19/03	<0.13	ug/l	No
Benzene	Aug 19/03	< 0.36	ug/l	No
Benzo(a)pyrene	Aug 19/03	<0.004	ug/l	No
Bromoxynil	Aug 19/03	< 0.094	ug/l	No
Carbaryl	Aug 19/03	< 0.16	ug/l	No
Carbofuran	Aug 19/03	< 0.37	ug/l	No
Carbon Tetrachloride	Aug 19/03	< 0.34	ug/l	No
Chlordane (Total)	Aug 19/03	< 0.11	ug/l	No
Chlorpyrifos	Aug 19/03	< 0.18	ug/l	No
Cyanazine	Aug 19/03	< 0.18	ug/l	No
Diazinon	Aug 19/03	< 0.081	ug/l	No
Dicamba	Aug 19/03	< 0.17	ug/l	No
1,2-Dichlorobenzene	Aug 19/03	< 0.56	ug/l	No
1,4-Dichlorobenzene	Aug 19/03	< 0.25	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Aug 19/03	< 0.14	ug/l	No
1,2-Dichloroethane	Aug 19/03	< 0.32	ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	Aug 19/03	<0.52	ug/l	No
Dichloromethane	Aug 19/03	<1.17	ug/l	No
2-4 Dichlorophenol	Aug 19/03	< 0.15	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 19/03	<0.11	ug/l	No
Diclofop-methyl	Aug 19/03	< 0.13	ug/l	No
Dimethoate	Aug 19/03	< 0.12	ug/l	No
Dinoseb	Aug 19/03	< 0.084	ug/l	No
Diquat	Aug 19/03	<1	ug/l	No
Diuron	Aug 19/03	< 0.087	ug/l	No
Glyphosate	Aug 19/03	<6	ug/l	No
Heptachlor + Heptachlor Epoxide	Aug 19/03	< 0.11	ug/l	No



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HUNTINGTON (cont'd)					
Lindane (Total)	Aug 19/03	< 0.056	ug/l	No	
Malathion	Aug 19/03	< 0.091	ug/l	No	
Methoxychlor	Aug 19/03	< 0.14	ug/l	No	
Metolachlor	Aug 19/03	< 0.092	ug/l	No	
Metribuzin	Aug 19/03	< 0.12	ug/l	No	
Monochlorobenzene	Aug 19/03	< 0.46	ug/l	No	
Paraquat	Aug 19/03	<1	ug/l	No	
Parathion	Aug 19/03	< 0.18	ug/l	No	
Pentachlorophenol	Aug 19/03	< 0.15	ug/l	No	
Phorate	Aug 19/03	< 0.11	ug/l	No	
Picloram	Aug 19/03	< 0.20	ug/l	No	
Polychlorinated Biphenyls(PCB)	Aug 19/03	< 0.04	ug/l	No	
Prometryne	Aug 19/03	< 0.23	ug/l	No	
Simazine	Aug 19/03	< 0.15	ug/l	No	
THM Distribution Guelph Tower	Jan. 17/05	26.0			
	Apr. 11/05	20.0	ug/l	No	
(NOTE: show latest annual average)	July 07/05	1.8	ug/1	110	
average – 18.20 ug/l	Oct. 05/05	25.0			
Temephos	Aug 19/03	< 0.31	ug/l	No	
Terbufos	Aug 19/03	< 0.12	ug/l	No	
Tetrachloroethylene	Aug 19/03	< 0.48	ug/l	No	
2,3,4,6-Tetrachlorophenol	Aug 19/03	< 0.14	ug/l	No	
Triallate	Aug 19/03	< 0.10	ug/l	No	
Trichloroethylene	Aug 19/03	< 0.54	ug/l	No	
2,4,6-Trichlorophenol	Aug 19/03	< 0.25	ug/l	No	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Aug 19/03	< 0.14	ug/l	No	
Trifluralin	Aug 19/03	< 0.12	ug/l	No	
Vinyl Chloride	Aug 19/03	< 0.08	ug/l	No	

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

Parameter	Sample Date	Result Value	Unit of	Exceedance	
			Measure		
CROSS CREEK					
Alachlor	Aug 19/03	< 0.11	ug/l	No	
Aldicarb	Aug 19/03	< 0.30	ug/l	No	
Aldrin + Dieldrin	Aug 19/03	< 0.067	ug/l	No	
Atrazine + N-dealkylated metobolites	Aug 19/03	< 0.12	ug/l	No	
Azinphos-methyl	Aug 19/03	< 0.21	ug/l	No	
Bendiocarb	Aug 19/03	< 0.13	ug/l	No	
Benzene	Aug 19/03	< 0.36	ug/l	No	
Benzo(a)pyrene	Aug 19/03	< 0.004	ug/l	No	
Bromoxynil	Aug 19/03	< 0.094	ug/l	No	
Carbaryl	Aug 19/03	< 0.16	ug/l	No	



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CRO	OSS CREEK	(cont'd)			
Carbofuran	Aug 19/03	<0.37	ug/l	No	
Carbon Tetrachloride	Aug 19/03	< 0.34	ug/l	No	
Chlordane (Total)	Aug 19/03	<0.11	ug/l	No	
Chlorpyrifos	Aug 19/03	<0.18	ug/l	No	
Cyanazine	Aug 19/03	<0.18	ug/l	No	
Diazinon	Aug 19/03	<0.081	ug/l	No	
Dicamba	Aug 19/03	<0.17	ug/l	No	
1,2-Dichlorobenzene	Aug 19/03	<0.17	ug/l	No	
1,4-Dichlorobenzene	Aug 19/03	<0.24	ug/l	No	
Dichlorodiphenyltrichloroethane	Aug 19/03	\0.2 4	ug/1	INU	
(DDT) + metabolites	Aug 19/03	< 0.14	ug/l	No	
1,2-Dichloroethane	Aug 19/03	< 0.32	ug/l	No	
1,1-Dichloroethylene (vinylidene chloride)	Aug 19/03	< 0.52	ug/l	No	
Dichloromethane	Aug 19/03	<1.17	ug/l	No	
2-4 Dichlorophenol	Aug 19/03	< 0.15	ug/l	No	
2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 19/03	< 0.11	ug/l	No	
Diclofop-methyl	Aug 19/03	< 0.13	ug/l	No	
Dimethoate	Aug 19/03	< 0.12	ug/l	No	
Dinoseb	Aug 19/03	< 0.084	ug/l	No	
Diquat	Aug 19/03	<1	ug/l	No	
Diuron	Aug 19/03	< 0.087	ug/l	No	
Glyphosate	Aug 19/03	<6	ug/l	No	
Heptachlor + Heptachlor Epoxide	Aug 19/03	< 0.11	ug/l	No	
Lindane (Total)	Aug 19/03	< 0.056	ug/l	No	
Malathion	Aug 19/03	< 0.091	ug/l	No	
Methoxychlor	Aug 19/03	< 0.14	ug/l	No	
Metolachlor	Aug 19/03	< 0.092	ug/l	No	
Metribuzin	Aug 19/03	< 0.12	ug/l	No	
Monochlorobenzene	Aug 19/03	< 0.46	ug/l	No	
Paraquat	Aug 19/03	<1	ug/l	No	
Parathion	Aug 19/03	< 0.18	ug/l	No	
Pentachlorophenol	Aug 19/03	< 0.15	ug/l	No	
Phorate	Aug 19/03	< 0.11	ug/l	No	
Picloram	Aug 19/03	< 0.20	ug/l	No	
Polychlorinated Biphenyls(PCB)	Aug 19/03	< 0.04	ug/l	No	
Prometryne	Aug 19/03	< 0.23	ug/l	No	
Simazine	Aug 19/03	< 0.15	ug/l	No	
THM Distribution Guelph Tower	Jan. 17/05	26.0			
•	Apr. 11/05	20.0	,, _c /1	No	
(NOTE: show latest annual average)	July 07/05	1.8	ug/l		
average – 18.20 ug/l	Oct. 05/05	25.0			
Temephos	Aug 19/03	< 0.31	ug/l	No	
Terbufos	Aug 19/03	< 0.12	ug/l	No	
Tetrachloroethylene	Aug 19/03			No	



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CROSS CREEK (cont'd)					
2,3,4,6-Tetrachlorophenol	Aug 19/03	< 0.14	ug/l	No	
Triallate	Aug 19/03	< 0.10	ug/l	No	
Trichloroethylene	Aug 19/03	< 0.54	ug/l	No	
2,4,6-Trichlorophenol	Aug 19/03	< 0.25	ug/l	No	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Aug 19/03	< 0.14	ug/l	No	
Trifluralin	Aug 19/03	< 0.12	ug/l	No	
Vinyl Chloride	Aug 19/03	< 0.08	ug/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
During this reporting period, then	re no inorganic	or organic parameters	that exceeded half the standard
prescribed in Schedule 2 of the O	ntario Drinking	Water Standards.	

(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)