

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220013553
Drinking-Water System Name:	Waldemar Heights Well Water Supply
Drinking-Water System Owner:	Township of Amaranth
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 01, 2010 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 [] 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;"> Township of Amaranth RR #7 Orangeville, ON L9W 2Z2 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div> </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: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</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 [] – N/A </p>
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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 [] – N/A

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: Newsletter circulated to property owners

Describe your Drinking-Water System

The Waldemar Heights Well Water Supply System consists of three wells, a distribution monitoring station and the watermains. The wells are known as well #1, well #2, and well #3.

Water is disinfected using sodium hypochlorite and is distributed to approximately 100 homes in the Waldemar Heights and Acchione subdivisions.

The naturally occurring fluoride content of this water is slightly high. The concentration in the water has always been slightly higher than the limit of 1.5 mg/l and the MOE and local health unit are aware of this fact.

The water is tested for microbiological contaminants within the overall system, including the raw water, after treatment, and in the distribution system. The results of this testing are summarized in the following sections of this report.

Detailed analytical test results on dozens of compounds and tables showing daily flows and other calculations are available for review at the Township Office.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite – (12% Solution – NSF Foodgrade)

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

No Significant expenses beyond normal operating costs

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
Nov 02/10	Lead	14.5	Ug/L	Flush, remove brass, resample	Nov 02/10

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	105	0	0	0	n.a.
Treated	52	0	0	52	0 to 18
Distribution	116	0	0	52	0 to 1

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity Raw Grab	25	0.13 to 0.66 NTU
Chlorine Treated Continuous	8760	0.34 to 1.56
Chlorine Dist Continuous	8760	0.79 to 1.58
Chlorine Dist Grab	481	0.85 to 1.45
Fluoride (If the DWS provides fluoridation)	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

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Jul 20/09	ND	ug/l	No
Arsenic	Jul 20/09	ND	ug/l	No
Barium	Jul 20/09	31	ug/l	No
Boron	Jul 20/09	72	ug/l	No
Cadmium	Jul 20/09	ND	ug/l	No
Chromium	Jul 20/09	ND	ug/l	No
Lead	Nov 02/10	ND to 1.8	ug/l	No
Mercury	Jul 20/09	ND	ug/l	No
Selenium	Jul 20/09	ND	ug/l	No
Sodium	Jul 20/09	17	Mg/l	No
Uranium	Jul 20/09	ND	ug/l	No
Fluoride	Sep 30/08	1.90	ug/l	Yes
Nitrite	Dec 13/10	ND	mg/l	No
Nitrate	Dec 13/10	ND	mg/l	No

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Jul 20/09	ND	ug/l	No
Aldicarb	Jul 20/09	ND	ug/l	No
Aldrin + Dieldrin	Jul 20/09	ND	ug/l	No
Atrazine + N-dealkylated metabolites	Jul 20/09	ND	ug/l	No
Azinphos-methyl	Jul 20/09	ND	ug/l	No
Bendiocarb	Jul 20/09	ND	ug/l	No
Benzene	Jul 20/09	ND	ug/l	No
Benzo(a)pyrene	Jul 20/09	ND	ug/l	No
Bromoxynil	Jul 20/09	ND	ug/l	No
Carbaryl	Jul 20/09	ND	ug/l	No
Carbofuran	Jul 20/09	ND	ug/l	No
Carbon Tetrachloride	Jul 20/09	ND	ug/l	No
Chlordane (Total)	Jul 20/09	ND	ug/l	No
Chlorpyrifos	Jul 20/09	ND	ug/l	No
Cyanazine	Jul 20/09	ND	ug/l	No
Diazinon	Jul 20/09	ND	ug/l	No
Dicamba	Jul 20/09	ND	ug/l	No
1,2-Dichlorobenzene	Jul 20/09	ND	ug/l	No
1,4-Dichlorobenzene	Jul 20/09	ND	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jul 20/09	ND	ug/l	No
1,2-Dichloroethane	Jul 20/09	ND	ug/l	No

1,1-Dichloroethylene (vinylidene chloride)	Jul 20/09	ND	ug/l	No
Dichloromethane	Jul 20/09	ND	ug/l	No
2-4 Dichlorophenol	Jul 20/09	ND	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jul 20/09	ND	ug/l	No
Diclofop-methyl	Jul 20/09	ND	ug/l	No
Dimethoate	Jul 20/09	ND	ug/l	No
Dinoseb	Jul 20/09	ND	ug/l	No
Diquat	Jul 20/09	ND	ug/l	No
Diuron	Jul 20/09	ND	ug/l	No
Glyphosate	Jul 20/09	ND	ug/l	No
Heptachlor + Heptachlor Epoxide	Jul 20/09	ND	ug/l	No
Lindane (Total)	Jul 20/09	ND	ug/l	No
Malathion	Jul 20/09	ND	ug/l	No
Methoxychlor	Jul 20/09	ND	ug/l	No
Metolachlor	Jul 20/09	ND	ug/l	No
Metribuzin	Jul 20/09	ND	ug/l	No
Monochlorobenzene	Jul 20/09	ND	ug/l	No
Paraquat	Jul 20/09	ND	ug/l	No
Parathion	Jul 20/09	ND	ug/l	No
Pentachlorophenol	Jul 20/09	ND	ug/l	No
Phorate	Jul 20/09	ND	ug/l	No
Picloram	Jul 20/09	ND	ug/l	No
Polychlorinated Biphenyls(PCB)	Jul 20/09	ND	ug/l	No
Prometryne	Jul 20/09	ND	ug/l	No
Simazine	Jul 20/09	ND	ug/l	No
THM (NOTE: show latest annual average)	Average 2010	10.2	ug/l	No
Temephos	Jul 20/09	ND	ug/l	No
Terbufos	Jul 20/09	ND	ug/l	No
Tetrachloroethylene	Jul 20/09	ND	ug/l	No
2,3,4,6-Tetrachlorophenol	Jul 20/09	ND	ug/l	No
Triallate	Jul 20/09	ND	ug/l	No
Trichloroethylene	Jul 20/09	ND	ug/l	No
2,4,6-Trichlorophenol	Jul 20/09	ND	ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jul 20/09	ND	ug/l	No
Trifluralin	Jul 20/09	ND	ug/l	No
Vinyl Chloride	Jul 20/09	ND	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

(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)