

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

<b>Drinking-Water System Number:</b>	260002590
<b>Drinking-Water System Name:</b>	Cheltenham Well Supply
<b>Drinking-Water System Owner:</b>	Regional Municipality of Peel
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2006 to December 31, 2006

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></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;">                 10 Peel Centre Drive, 4<sup>TH</sup> Floor                  Brampton, Ontario                  L6T 4B9             </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">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; width: 100px; text-align: center;">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 [ ]</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 Drinking-Water Systems, which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
None	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 [ x ]

**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** \_\_\_\_\_

**Describe your Drinking-Water System**

The population served in Cheltenham is 777. The groundwater drawn from two (2) municipal wells is disinfected with chlorine. An iron-manganese removal system oxidizes the iron and manganese with potassium permanganate causing the iron and manganese to precipitate out of solution. A large greensand filter removes the oxidized iron and manganese particles from the water. Surplus water is stored in a 1 million-litre (220 thousand-gallon) in-ground reservoir connected to the water distribution system.

Cheltenham Well Nos. 1 and 2

A communal well water supply consisting of well supply, water treatment system, and associated appurtenances.

Well Nos. 1 and 2 are drilled wells located in a concrete block well pump house with submersible well pumps each rated with a capacity of 17 L/s.

The water treatment building is equipped with raw water flow meters with recording capabilities, online continuous free chlorine analyzers with recording and alarming capabilities, an online turbidity analyzer, two (2) colorimeters with alarming capabilities, and all associated appurtenances discharging directly into the distribution system.

The water treatment building also consists of Greensand Filtration system for the removal of iron. This system consists of one chemical metering pump with a feed line discharging potassium permanganate solution from a 200L drums to the well pump discharge downstream of the sodium hypochlorite application.

The disinfection system consists of chemical metering pumps and sodium hypochlorite solution supplied from 200L drums.

A 100 kW standby diesel generator set complete with automatic transfer switch system, to provide the standby power to the facility in the event of a power failure is located in the pump house.

**List all water treatment chemicals used over this reporting period**

Sodium Hypochlorite  
Potassium Permanganate

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

Significant Installations	Approximate Expenditure
Station upgrades including new iron and manganese removal system, disinfection system and residual management system	\$ 1.9 Million
Valve Installation and Replacement	est \$666.00

Significant Repairs	Approximate Expenditure
Water Service Repairs	\$2,807.00
Fire Hydrant Repairs	est \$4,500.00
Diesel Repairs	\$1,330.61
Electrical Repairs	\$5,734.62
Water Service Repair/Replacement	est \$2,000.00
Cheltenham Wells and Reservoir, including all repairs	\$67,720.66

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 (dd/mm/yy)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (dd/mm/yy)
05/04/06	Mn	>0.05	mg/L	System was isolated and flushed.	29/05/06 AWQI#63261
07/04/06	Sodium	21.5 21.5 21.5	mg/L mg/L mg/L	Medical officer of health was notified	10/04/06 AQWI#63306
25/05/06	Sodium	24.3	mg/L	Re-sampled	28/05/06 AQWI#63607

Note: Incident date represents the sampling date, corrective action date represents the date the incident was resolved.

**Microbiological testing done under 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#)
Cheltenham Well # 1 Raw	33	0 - 0	0 - 0	33	0 - 1
Cheltenham Well # 1 Treated	33	0 - 0	0 - 0	33	0 - 1
Cheltenham Well # 2 Raw	38	0 - 0	0 - 0	38	0 - 32
Cheltenham Well # 2 Treated	38	0 - 0	0 - 0	38	0 - 9
Distribution	208	0 - 0	0 - 0	208	0 - 18

**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	Cheltenham Distribution System	Cheltenham Well 1 Range of Results (min#)-(max#)	Cheltenham Well 2 Range of Results (min#)-(max#)
Turbidity	8760	Raw Water Turbidity NA	0.08 - 0.36	0.09 - 0.47
Chlorine	8760	0.50 - 1.71	0.97 - 1.93	1.06 - 1.92
Fluoride (If the DWS provides fluoridation)	N/A	NA	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

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

Parameter	Sample Date (dd/mm/yy)	Result Value Well #1	Result Value Well # 2	Unit of Measure	Exceedance
Antimony	20/04/06	0.501		ug/l	No
	12/12/06		<0.182	ug/L	No
Arsenic	20/04/06	0.822		ug/l	No
	12/12/06		<0.823	ug/L	No
Barium	20/04/06	0.176		mg/l	No
	12/12/06		0.232	mg/L	No
Boron	20/04/06	0.026		mg/l	No
	12/12/06		0.025	mg/L	No
Cadmium	20/04/06	ND		mg/l	No
	12/12/06		ND	mg/L	No
Chromium	20/04/06	<0.003		mg/l	No
	12/12/06		<0.002	mg/L	No
Lead	20/04/06	<0.211		mg/l	No
	12/12/06		<0.432	mg/L	No
Mercury	20/04/06	ND		mg/l	No
	12/12/06		ND	mg/L	No
Selenium	20/04/06	<0.957		mg/l	No
	12/12/06		<0.957	mg/L	No
Sodium	20/04/06	20.4		mg/L	Yes
	12/12/06		19.2	mg/l	No
Uranium	20/04/06	0.0002		mg/l	No
	12/12/06		0.2	mg/L	No
Fluoride	17/10/06	0.129		mg/l	No
	12/12/06		0.089	mg/L	No
Nitrite	17/10/06	<0.017		mg/l as N	No
	12/12/06		<0.017	mg/l as N	No
Nitrate	17/10/06	<0.038		mg/l as N	No
	12/12/06		<0.038	mg/l as N	No

ND indicates Not detectable, < indicates below Method Detection Limit. (MDL).

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

Parameter	Sample Date (dd/mm/yy)	Result Value Well # 1	Result Value Well # 2	Unit of Measure	Exceedance
Alachlor	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Aldicarb	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Aldrin + Dieldrin	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Atrazine + N-dealkylated metabolites	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Azinphos-methyl	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Bendiocarb	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Benzene	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Benzo(a)pyrene	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Bromoxynil	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Carbaryl	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Carbofuran	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Carbon Tetrachloride	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Chlordane (Total)	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Chlorpyrifos	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Cyanazine	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Diazinon	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Dicamba	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
1,2-Dichlorobenzene	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
1,4-Dichlorobenzene	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No

<b>1,2-Dichloroethane</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>1,1-Dichloroethylene (vinylidene chloride)</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Dichloromethane</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>2-4 Dichlorophenol</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Diclofop-methyl</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Dimethoate</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Dinoseb</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Diquat</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Diuron</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Glyphosate</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Heptachlor + Heptachlor Epoxide</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Linadane (Total)</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Malathion</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Methoxychlor</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Metolachlor</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Metribuzin</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Monochlorobenzene</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Paraquat</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Parathion</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Pentachlorophenol</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Phorate</b>	20/04/06	ND		ug/L	No
	12/12/06		<0.31	ug/L	No

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

<b>Picloram</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Polychlorinated Biphenyls(PCB)</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Prometryne</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Simazine</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>THM</b> (NOTE: show latest annual average)	Jan 1-Dec 31 2006	25.7 (annual running average in the distribution system)		ug/L	No
<b>Temephos</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Terbufos</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Tetrachloroethylene</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>2,3,4,6-Tetrachlorophenol</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Triallate</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Trichloroethylene</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>2,4,6-Trichlorophenol</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Trifluralin</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No
<b>Vinyl Chloride</b>	20/04/06	ND		ug/L	No
	12/12/06		ND	ug/L	No

ND indicates Not detectable, < indicates below Method Detection Limit. (MDL).

**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
None	N/A	N/A	N/A

**(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)**