

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

Drinking-Water System Number:	220004000
Drinking-Water System Name:	Caledon Village Well Supply
Drinking-Water System Owner:	Region of Peel
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2006 to December 31, 2006

<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;"> 10 Peel Centre Drive, 4th floor Brampton, Ontario L6T 4B9 </div>	<p><u>Complete for all other Categories.</u></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>
--	---

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 Caledon Village is 2918. The groundwater drawn from three (3) municipal wells is disinfected with chlorine and delivered to consumers through the water distribution system, which also services communities of Mono Mills and Skywood Park. Surplus water is stored in a 3.7 million-litre (810 thousand gallon) in-ground reservoir connect to the water distribution system as well as a 2.2 million-litre (474 thousand gallon) standpipe. Sodium silicate is also added to the water to help prevent naturally occurring iron in the water from precipitating out of solution.

Caledon Village Well No.3 and 3A

A communal well water supply consisting of two (2) well supplies, water treatment system and associated appurtenances.

Well No. 3 is drilled well located in a concrete block well pump house with a submersible well water pump rated at a capacity of 23.1 L/s.

It is equipped with a raw water flow meter with recording capabilities, an online continuous turbidity analyzer measuring treated water turbidity, an online continuous free chlorine residual analyzer with recording and alarming capabilities and all associated appurtenances discharging into the distribution system.

The disinfection system consists of chemical feed pumps and sodium hypochlorite solution supplied from 204L drums.

A 135 kW stand-by diesel generator set complete with automatic transfer switch system, to provide stand-by power to the facility in the event of the power failure is located in the pump house.

All instrumentation and equipment are compatible with the Region's SCADA system.

Well No. 3A is not in operation and is to be abandoned.

Caledon Village Well No. 4

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

Well No.4 is a drilled well, located in a concrete block well pump house with a submersible well water pump rated at 38 L/s.

It is equipped with raw water flow meter with recording capabilities, online continuous free chlorine analyzer with recording and alarming capabilities, an online continuous turbidity analyzer, and all appurtenances discharging directly into the distribution system.

The disinfection system consists of chemical feed pumps and sodium hypochlorite supplied from 204 L drums.

The iron sequestration system consists of one metering pump and sodium silicate supplied from 204 L drums.

All instrumentation and equipment are compatible with the Region's SCADA system.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite Sodium Silicate
--

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
Valve Installation and Replacement	est \$666.00

Significant Repairs	Approximate Expenditure
Watermain Breaks	\$10,788.00
Water Service Repairs	\$9,861.00
Water Distribution System Valve Repairs	\$615.00
Fire Hydrant repairs	est \$4,500.00
Water Service Box Repair/Replacement	\$2,000.00
Diesel Repairs	\$1,044.82
Diesel Repairs (Mono Mills)	\$940.86
Electrical Repairs	\$2,264.20
Caledon Village Wells and Reservoir Maintenance, including all repairs	\$6,168.32

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)
20/04/2006	Free Chlorine	<0.05	mg/L	Chlorine residuals were verified at the well house and within the distribution system. Bacteriological samples were collected	26/04/2006 AWQI#63519
20/04/2006	Sodium	23.7	mg/L	Re-sampled	28/04/2006 AWQI#63598
08/08/2006	Total Coliform	2	CFU/100ml	Re-sampled upstream, downstream and the reported location	15/08/2006 AWQI#66870

Note: Incident date represents the sampling date, corrective action date represents the date 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#)
Caledon Village Well # 3 Raw	52	0 - 0	0 - 0	52	0 - 2
Caledon Village Well # 3 Treated	52	0 - 0	0 - 0	52	0 - 1
Caledon Village Well # 4 Raw	51	0 - 0	0 - 0	51	0 - 3
Caledon Village Well # 4 Treated	51	0 - 0	0 - 0	51	0 - 1
Distribution	364	0 - 0	0 - 0	364	0 -38

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#) Caledon Village Well # 3	Range of Results (min#)-(max#) Caledon Village Well # 4	Range of Results (min#)-(max#) Caledon Village Distribution
Turbidity	8760	0.03 – 0.31	0.07 – 0.23	Raw turbidity N/A
Chlorine	8760	1.15 – 1.74	1.18 – 1.77	0.05 – 1.49
Fluoride (If the DWS provides fluoridation)	N/A	N/A	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	Caledon Village Well #3 Result	Caledon Village Well #4 Result	Caledon Village Cell #1	Caledon Village Cell #2	Monomills Standpipe Not sampled for R2A	Unit of Measure
CofA 22/11/05	R2A	03-Jan-06	2	-	0	0	1	cfu/100ml
		10-Jan-06	56	-	1	0	0	cfu/100ml
		17-Jan-06	5	-	0	2	0	cfu/100ml
		24-Jan-06	4	-	0	0	1	cfu/100ml
		31-Jan-06	3	-	0	3	19	cfu/100ml
		07-Feb-06	2	0	0	0	0	cfu/100ml
		14-Feb-06	2	0	0	0	0	cfu/100ml
		21-Feb-06	1	0	0	0	0	cfu/100ml
		28-Feb-06	4	0	0	0	4	cfu/100ml
		07-Mar-06	2	0	0	0	0	cfu/100ml
		14-Mar-06	6	0	2	0	0	cfu/100ml
		21-Mar-06	2	1	0	0	2	cfu/100ml
		28-Mar-06	3	0	0	3	1	cfu/100ml
		04-Apr-06	2	6	0	0	6	cfu/100ml
		11-Apr-06	1	10	0	1	6	cfu/100ml
		19-Apr-06	0	Well out of service	0	1	0	cfu/100ml
		25-Apr-06	3	15	0	0	21	cfu/100ml
		02-May-06	7	1	0	0	40	cfu/100ml
		09-May-06	1	3	1	0	70	cfu/100ml
		16-May-06	1	0	0	0	0	cfu/100ml

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

CofA 22/11/05	R2A	24-May-06	20	0	0	0	0	cfu/100ml
		30-May-06	55	1	0	0	62	cfu/100ml
		06-Jun-06	10	1	0	1	8	cfu/100ml
		13-Jun-06	7	3	0	0	8	cfu/100ml
		20-Jun-06	75	0	1	0	80	cfu/100ml
		27-Jun-06	24	16	0	2	20	cfu/100ml
		05-Jul-06	95	0	2	0	14	cfu/100ml
		11-Jul-06	31	2	1	3	12	cfu/100ml
		18-Jul-06	120	11	0	1	95	cfu/100ml
		25-Jul-06	13	70	4	1	2	cfu/100ml
		01-Aug-06	48	14	0	1	35	cfu/100ml
		09-Aug-06	36	15	0	0	8	cfu/100ml
		15-Aug-06	7	14	1	1	2	cfu/100ml
		21-Aug-06	75	80	0	0	0	cfu/100ml
		28-Aug-06	20	40	0	0	85	cfu/100ml
		05-Sep-06	5	6	0	1	66	cfu/100ml
		11-Sep-06	8	1	0	0	2	cfu/100ml
		18-Sep-06	32	100	0	0	13	cfu/100ml
		25-Sep-06	6	32	4	0	3	cfu/100ml
		02-Oct-06	1	73	1	0	2	cfu/100ml
		10-Oct-06	19	1	0	2	1	cfu/100ml
		16-Oct-06	6	1	1	2	2	cfu/100ml
		23-Oct-06	3	1	0	0	1	cfu/100ml
		30-Oct-06	4	0	0	1	1	cfu/100ml
		06-Nov-06	12	2	0	2	0	cfu/100ml
		13-Nov-06	8	1	1	0	2	cfu/100ml
		20-Nov-06	4	0	0	0	2	cfu/100ml
		27-Nov-06	8	1	0	0	11	cfu/100ml
		04-Dec-06	16	0	0	0	6	cfu/100ml
		11-Dec-06	38	0	0	0	1	cfu/100ml
		18-Dec-06	10	2	1	1	12	cfu/100ml
		26-Dec-06	1	19	0	0	25	cfu/100ml

Date of legal instrument issued	Parameter	Date Sampled	Caledon Village Well #3 Result	Caledon Village Well #4 Result	Caledon Village Cell #1	Caledon Village Cell #1	Monomills Standpipe	Unit of Measure
CofA 22/11/05	AOC	2-Jan-06	56	-	84	81	90	ugAOC/L
		6-Feb-06	84	108	106	95	113	ugAOC/L
		6-Mar-06	95	138	153	119	139	ugAOC/L
		3-Apr-06	92	133	117	116	130	ugAOC/L
		1-May-06	77	106	100	102	104	ugAOC/L
		5-Jun-06	109	139	156	161	117	ugAOC/L
		4-Jul-06	68	60	148	157	92	ugAOC/L
		9-Aug-06	97	124	116	129	119	ugAOC/L
		2-Oct-06	124	131	147	123	103	ugAOC/L
		6-Nov-06	131	129	143	126	145	ugAOC/L
		4-Dec-06	106	127	145	131	96	ugAOC/L

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

Parameter	Sample Date (dd/mm/yy)	Result Value Well # 3	Result Value Well # 4	Unit of Measure	Exceedance
Antimony	20/04/06	<0.486	0.568	ug/L	No
	20/04/06			ug/L	
Arsenic	20/04/06	1.00	4.89	ug/L	No
	20/04/06			ug/L	
Barium	20/04/06	0.043	0.102	mg/L	No
	20/04/06			mg/L	
Boron	20/04/06	0.012	0.068	mg/L	No
	20/04/06			mg/L	
Cadmium	20/04/06	0.0005	0.0027	mg/L	No
	20/04/06			mg/L	
Chromium	20/04/06	<0.003	<0.003	mg/L	No
	20/04/06			mg/L	
Lead	20/04/06	<0.211	0.347	ug/L	No
	20/04/06			ug/L	
Mercury	20/04/06	ND	ND	mg/L	No
	20/04/06			mg/L	
Selenium	20/04/06	<0.957	<0.957	mg/L	No
	20/04/06			mg/L	
Sodium	13/07/06	35.5	11.4	mg/L	Yes
	13/07/06			mg/L	No
Uranium	20/04/06	ND	0.0003	mg/L	No
	20/04/06			mg/L	
Fluoride	12/10/06	<0.017	<0.017	mg/L	No
	12/10/06			mg/L	
Nitrate	12/10/06	0.203	<0.038	mg/L as N	No
	12/10/06			mg/L as N	No
Nitrite	12/10/06	<0.017	<0.017	mg/L as N	No
	12/10/06			mg/L as N	No

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

Parameter	Sample Date (dd/mm/yy)	Result Value Well # 3	Result Value Well # 4	Unit of Measure	Exceedance
Alachlor	20/04/06	ND	ND	ug/L	No
Aldicarb	20/04/06	ND	ND	ug/L	No
Aldrin + Dieldrin	20/04/06	ND	ND	ug/L	No
Atrazine + N-dealkylated metabolites	20/04/06	ND	ND	ug/L	No
Azinphos-methyl	20/04/06	ND	ND	ug/L	No

Bendiocarb	20/04/06	ND	ND	ug/L	No
Benzene	20/04/06	ND	ND	ug/L	No
Benzo(a)pyrene	20/04/06	ND	ND	ug/L	No
Bromoxynil	20/04/06	ND	ND	ug/L	No
Carbaryl	20/04/06	ND	ND	ug/L	No
Carbofuran	20/04/06	ND	ND	ug/L	No
Carbon Tetrachloride	20/04/06	ND	ND	ug/L	No
Chlordane (Total)	20/04/06	ND	ND	ug/L	No
Chlorpyrifos	20/04/06	ND	ND	ug/L	No
Cyanazine	20/04/06	ND	ND	ug/L	No
Diazinon	20/04/06	ND	ND	ug/L	No
Dicamba	20/04/06	ND	ND	ug/L	No
1,2-Dichlorobenzene	20/04/06	ND	ND	ug/L	No
1,4-Dichlorobenzene	20/04/06	ND	ND	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	20/04/06	ND	ND	ug/L	No
1,2-Dichloroethane	20/04/06	ND	ND	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	20/04/06	ND	ND	ug/L	No
Dichloromethane	20/04/06	ND	ND	ug/L	No
2-4 Dichlorophenol	20/04/06	ND	ND	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	20/04/06	ND	ND	ug/L	No
Diclofop-methyl	20/04/06	ND	ND	ug/L	No
Dimethoate	20/04/06	ND	ND	ug/L	No
Dinoseb	20/04/06	ND	ND	ug/L	No
Diquat	20/04/06	ND	ND	ppb	No
Diuron	20/04/06	ND	ND	ug/L	No
Glyphosate	20/04/06	ND	ND	ug/L	No
Heptachlor + Heptachlor Epoxide	20/04/06	ND	ND	ug/L	No
Linadane (Total)	20/04/06	ND	ND	ug/L	No
Malathion	20/04/06	ND	ND	ug/L	No
Methoxychlor	20/04/06	ND	ND	ug/L	No
Metolachlor	20/04/06	ND	ND	ug/L	No
Metribuzin	20/04/06	ND	ND	ug/L	No
Monochlorobenzene	20/04/06	ND	ND	ug/L	No
Paraquat	20/04/06	ND	ND	ppb	No
Parathion	20/04/06	ND	ND	ug/L	No
Pentachlorophenol	20/04/06	ND	ND	ug/L	No
Phorate	20/04/06	ND	ND	ug/L	No
Picloram	20/04/06	ND	ND	ug/L	No
Polychlorinated Biphenyls(PCB)	20/04/06	ND	ND	ug/L	No

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

Prometryne	20/04/06	ND	ND	ug/L	No
Simazine	20/04/06	ND	ND	ug/L	No
THM (NOTE: show latest annual average)	Jan 01 - Dec 31 2006	11.9 (annual running average in the distribution system)		ug/L	No
Temephos	20/04/06	ND	ND	ug/L	No
Terbufos	20/04/06	ND	ND	ug/L	No
Tetrachloroethylene	20/04/06	ND	ND	ug/L	No
2,3,4,6-Tetrachlorophenol	20/04/06	ND	ND	ug/L	No
Triallate	20/04/06	ND	ND	ug/L	No
Trichloroethylene	20/04/06	ND	ND	ug/L	No
2,4,6-Trichlorophenol	20/04/06	ND	ND	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	20/04/06	ND	ND	ug/L	No
Trifluralin	20/04/06	ND	ND	ug/L	No
Vinyl Chloride	20/04/06	ND	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
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)