

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

Office of the Environment, 4300 Highway 7, Dept. of the Environment and Heritage

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220001584
Drinking-Water System Name:	Deloro Well Supply System
Drinking-Water System Owner:	The Corporation of the Municipality of Marmora and Lake
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1, 2008 to December 31, 2008

Complete for all other Categories.

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []

Number of Interested Authorities you report to:

Did you provide a copy of your annual report 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
NONE	

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 []

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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 a newspaper

Describe your Drinking-Water System

One well groundwater source, that is under the direct influence of surface water supply system with cartridge filtration, sodium hypochlorite and ultraviolet disinfection. The facility has on-line, alarmed continuous monitoring for treated water free chlorine residual, and filter effluent turbidity.

List all water treatment chemicals used over this reporting period
Sodium Hypochlorite – 12%

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

- Annual flow monitors calibration, approx \$1,000.00
- Spare parts and rebuild kits for chem. Feed pumps, approx \$1500.00
- Annual UV maintenance sensors, bulbs, approx \$2,000.00
- Membrane caps & new free chlorine probe, approx \$1,200.00
- Portable UV sensor kits, approx \$1,000.00
- New water main and replacement of all lead services to water meter base. Total project cost \$1,318,097.24 this also include new sewer main, laterals, storm and pavement.

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
April 18 th 2008	Lead	17.3	Mg/l	Resample of hydrant, upstream & Downstream	Dec. 16 th 2008

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August 14th 2008	Operator /on-site observations high Cl₂ residual	5.6	Mg/l	Notify Residents, flush system and monitor residuals.	August 14th 2008
May 20th 2008	Operator /on-site observation	<20	psi	Notify residents, flush system, collect two sets of samples for ec,tc	May 23rd 2008
August 24th	Operator /on-site observation	<20	psi	Notify residents, flush system, collect two sets of samples for ec,tc	August 27th 2008

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	14	0-2	10-14	14	0-4
Treated	0			0	
Distribution	59	0-0	0-0	58	0-56

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, Filter Effluent (NTU)	8760	0.07-0.19
Chlorine - Treated	8760	0.08-2.18
Chlorine - Distribution	98	0.57-2.2+
Fluoride (If the DWS provides	n/a	n/a

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fluoridation)

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

Parameter	Sample Type (DW, TW, RAW)	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	TW	Jan 7, 2008	0.00018	mg/L	no
Arsenic	TW	Jan 7, 2008	0.0045	mg/L	no
Barium	TW	Jan 7, 2008	0.267	mg/L	No
Boron	TW	Jan 7, 2008	0.044	mg/L	No
Cadmium	TW	Jan 7, 2008	0.000011	mg/L	No
Chromium	TW	Jan 7, 2008	0.0007	mg/L	No
*Lead					
Mercury	TW	Jan 7, 2008	<0.00002	mg/L	No
Selenium	TW	Jan 7, 2008	<0.001	mg/L	No
Sodium	TW	Jan 7, 2008	10.1	mg/L	No
Uranium	TW	Jan 7, 2008	0.000251	mg/L	No
Fluoride	TW	Jan 7, 2008	0.09	mg/L	No
Nitrite	TW	Jan 7, 2008	<0.005	mg/L	No
	RW	Jan 24, 2008	<0.005	mg/l	No
	RW	April 7, 2008	<0.005	mg/l	No
	RW	July 14, 2008	<0.005	mg/L	No
	RW	Oct 14, 2008	<0.005	mg/L	No
Nitrate	TW	Jan 7, 2008	0.716	mg/L	No
	RW	Jan 24, 2008	0.278	mg/l	No
	RW	April 7, 2008	0.248	mg/l	No
	RW	July 14, 2008	0.053	mg/L	No
	RW	Oct 14, 2008	0.060	mg/L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

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Summary of lead testing under Schedule 15.1 during this reporting period
(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type
Number of Samples
Range of Lead Results (mg/l)
(min#) – (max #)
Number of Exceedances

Plumbing

21

0.00019-0.0211

5

Distribution

4

0.00039
-0.0184

1

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

Parameter	Sample Type (DW, TW, RAW)	Sample Date	Result Value	Unit of Measure
Alachlor	TW	Jan 7, 2008	0.11 <MDL	ug/l
Aldicarb	TW	Jan 7, 2008	0.3 <MDL	ug/l
Aldrin + Dieldrin	TW	Jan 7, 2008	0.067 <MDL	ug/l
Atrazine + N-dealkylated metabolites	TW	Jan 7, 2008	0.12 <MDL	ug/l
Azinphos-methyl	TW	Jan 7, 2008	0.21 <MDL	ug/l
Bendiocarb	TW	Jan 7, 2008	0.13 <MDL	ug/l
Benzene	TW	Jan 7, 2008	0.37 <MDL	ug/l
Benzo(a)pyrene	TW	Jan 7, 2008	0.004 <MDL	ug/l
Bromoxynil	TW	Jan 7, 2008	0.33 <MDL	ug/l

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Carbaryl	TW	Jan 7, 2008	0.16 <MDL	ug/l
Carbofuran	TW	Jan 7, 2008	0.37 <MDL	ug/l
Carbon Tetrachloride	TW	Jan 7, 2008	0.41 <MDL	ug/l
Chlordane (Total)	TW	Jan 7, 2008	0.11 <MDL	ug/l
Chlorpyrifos	TW	Jan 7, 2008	0.18 <MDL	ug/l
Cyanazine	TW	Jan 7, 2008	0.18 <MDL	ug/l
Diazinon	TW	Jan 7, 2008	0.081 <MDL	ug/l
Dicamba	TW	Jan 7, 2008	0.20 <MDL	ug/l
1,2-Dichlorobenzene	TW	Jan 7, 2008	0.50 <MDL	ug/l
1,4-Dichlorobenzene	TW	Jan 7, 2008	0.21 <MDL	ug/l
Dichlorodiphenyltrichloroethane (DDT) + metabolites	TW	Jan 7, 2008	0.14 <MDL	ug/l
1,2-Dichloroethane	TW	Jan 7, 2008	0.43 <MDL	ug/l
1,1-Dichloroethylene (vinylidene chloride)	TW	Jan 7, 2008	0.41 <MDL	ug/l
Dichloromethane	TW	Jan 7, 2008	0.34 <MDL	ug/l
2-4 Dichlorophenol	TW	Jan 7, 2008	0.15 <MDL	ug/l
2,4-Dichlorophenoxy acetic acid (2,4-D)	TW	Jan 7, 2008	0.19 <MDL	ug/l
Diclofop-methyl	TW	Jan 7, 2008	0.40 <MDL	ug/l
Dimethoate	TW	Jan 7, 2008	0.12 <MDL	ug/l
Dinoseb	TW	Jan 7, 2008	0.36 <MDL	ug/l
Diquat	TW	Jan 7, 2008	1 <MDL	ug/l
Diuron	TW	Jan 7, 2008	0.087 <MDL	ug/l
Glyphosate	TW	Jan 7, 2008	6 <MDL	ug/l
Heptachlor + Heptachlor Epoxide	TW	Jan 7, 2008	0.11 <MDL	ug/l

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Lindane (Total)	TW	Jan 7, 2008	0.056 <MDL	ug/l
Malathion	TW	Jan 7, 2008	0.091 <MDL	ug/l
Methoxychlor	TW	Jan 7, 2008	0.14 <MDL	ug/l
Metolachlor	TW	Jan 7, 2008	0.092 <MDL	ug/l
Metribuzin	TW	Jan 7, 2008	0.12 <MDL	ug/l
Monochlorobenzene	TW	Jan 7, 2008	0.58 <MDL	ug/l
Paraquat	TW	Jan 7, 2008	1 <MDL	ug/l
Parathion	TW	Jan 7, 2008	0.18 <MDL	ug/l
Pentachlorophenol	TW	Jan 7, 2008	0.15 <MDL	ug/l
Phorate	TW	Jan 7, 2008	0.11 <MDL	ug/l
Picloram	TW	Jan 7, 2008	0.25 <MDL	ug/l
Polychlorinated Biphenyls(PCB)	TW	Jan 7, 2008	0.04 <MDL	ug/l
Prometryne	TW	Jan 7, 2008	0.23 <MDL	ug/l
Simazine	TW	Jan 7, 2008	0.15 <MDL	ug/l
THM (NOTE: show latest annual average)	DW	Average of Jan 7, April 7, July 14, Oct 14, 2008	16.95	ug/l
Temephos	TW	Jan 7, 2008	0.31 <MDL	ug/l
Terbufos	TW	Jan 7, 2008	0.12 <MDL	ug/l
Tetrachloroethylene	TW	Jan 7, 2008	0.45 <MDL	ug/l
2,3,4,6-Tetrachlorophenol	TW	Jan 7, 2008	0.14 <MDL	ug/l
Triallate	TW	Jan 7, 2008	0.10 <MDL	ug/l
Trichloroethylene	TW	Jan 7, 2008	0.38 <MDL	ug/l
2,4,6-Trichlorophenol	TW	Jan 7, 2008	0.25 <MDL	ug/l

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2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	TW	Jan 7, 2008	0.22 <MDL	ug/l
Trifluralin	TW	Jan 7, 2008	0.12 <MDL	ug/l
Vinyl Chloride	TW	Jan 7, 2008	0.17 <MDL	ug/l

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
n/a			