



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

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220001218
Drinking-Water System Name:	Cobden Water Treatment Plant
Drinking-Water System Owner:	Township of Whitewater Region
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 01, 2010 to December 31, 2010

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 [] No [x]

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

Township of Whitewater Region
Municipal Office
44 Main Street
Cobden Ontario
K0J1K0

Complete for all other Categories.

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
Cobden Water Supply	20001218

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 [x] 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 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 Cobden Water Treatment Plant, located at 28 Bonnechere Street, provides treatment consisting of coagulation and flocculation using alum and polymer, sedimentation utilizing tube settlers, and filtration using dual media sand-anthracite filters. Disinfection utilizes post chlorination and post trim chlorination using sodium hypochlorite. Potassium permanganate is used for zebra mussel control and manganese control.

The surface water source is Muskrat Lake. The treatment plant intake is located 1.8 meters above the lake bed at a depth of 12.2 meters and 1100 meters from the water treatment plant. The distribution system includes 6 kilometers of water main and a 900 cubic meter elevated water storage reservoir. Plant upgrades completed in 2008 included a new filter unit, an addition to the original building housing a new raw water intake well and low lift pumps, new larger clearwell and high lift and backwash pumps, a new settling/equalization tank with supernatant return to Muskrat Lake, and new PLC control system, new alum, polymer, and chlorination systems. A potassium permanganate dosing system was added in 2010.

List all water treatment chemicals used over this reporting period

Prehydrolyzed Aluminium Sulphate	- Kemira Canada Inc.	- Liquid
Polymer	- Ciba Specialty Chemicals Ltd.	- MagnaFloc LT 22S
Sodium Hypochlorite	- Brenntag Canada Inc.	- Sodium Hypochlorite 12%
Potassium Permanganate	- Brenntag Canada Inc.	- Granular 97.5%

Were any significant expenses incurred to?

- Install required equipment
 Repair required equipment
 Replace required equipment

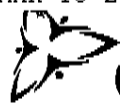
Please provide a brief description and a breakdown of monetary expenses incurred

Install potassium permanganate dosing system - \$9700.00

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
03/31/10	Total Coliform	1	Cts/100 ml	Resample	03/31/10



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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	52	0 - 161	0 - 540		
Treated	52	0 - 0	0 - 0	52	< 2 - 16
Distribution	128	0 - 0	0 - 1	126	< 2 - 102

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 #)
Filter Effluent Turbidity	8760	0.04 – 0.28 NTU
Turbidity Treated Water	8760	0.03 – 0.27 NTU
Chlorine Treated Water	8760	0.87 – 2.20 Mg/l
Chlorine Distribution System	370	0.10 – 1.64 Mg/l
Fluoride (If the DWS provides fluoridation)		

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
	Process Waste Water Suspended Solids	M/D/Y		Mg/l
C of A April 4, 2008	"	01 - 14 - 10	11.2	"
"	"	04 - 12 - 10	6.2	"
"	"	07 - 15 - 10	10.4	"
"	"	10 - 14 - 10	4.2	"



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

Parameter	Sample Date M/D/Y	Result Value	Unit of Measure	Exceedance
Antimony	01/11/10	< 0.0001	Mg/l	No
Arsenic	01/11/10	0.0002	Mg/l	No
Barium	01/11/10	0.021	Mg/l	No
Boron	01/11/10	< 0.005	Mg/l	No
Cadmium	01/11/10	< 0.00002	Mg/l	No
Chromium	01/11/10	< 0.002	Mg/l	No
*Lead				
Mercury	01/11/10	< 0.00002	Mg/l	No
Selenium	01/11/10	< 0.001	Mg/l	No
Sodium	01/06/09	13.7	Mg/l	No
Uranium	01/11/10	0.00017	Mg/l	No
Fluoride	03/10/09	0.2	Mg/l	No
Nitrite	01/11/10	< 0.1	Mg/l	No
Nitrate	01/11/10	0.3	Mg/l	No
Nitrite	04/07/10	< 0.1	Mg/l	No
Nitrate	04/07/10	0.3	Mg/l	No
Nitrite	07/14/10	< 0.1	Mg/l	No
Nitrate	07/14/10	0.1	Mg/l	No
Nitrite	10/13/10	< 0.1	Mg/l	No
Nitrate	10/13/10	0.1	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

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 (min#) – (max #)	Number of Exceedances
Plumbing			
Distribution	4	< 0.00002 – 0.00025	None

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

Parameter	Sample Date M/D/Y	Result Value	Unit of Measure	Exceedan ce
Alachlor	01/11/10	< 0.3	Ug/l	No
Aldicarb	01/11/10	< 3	Ug/l	No
Aldrin + Dieldrin	01/11/10	< 0.02	Ug/l	No
Atrazine + N-dealkylated metabolites	01/11/10	< 0.5	Ug/l	No
Aziaphos-methyl	01/11/10	< 1	Ug/l	No



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Bendiocarb	01/11/10	< 3	Ug/l	No
Benzene	01/11/10	< 0.5	Ug/l	No
Benzo(a)pyrene	01/11/10	< 0.005	Ug/l	No
Bromoxynil	01/11/10	< 0.3	Ug/l	No
Carbaryl	01/11/10	< 3	Ug/l	No
Carbofuran	01/11/10	< 1	Ug/l	No
Carbon Tetrachloride	01/11/10	< 0.2	Ug/l	No
Chlordane (Total)	01/11/10	< 0.04	Ug/l	No
Chlorpyrifos	01/11/10	< 0.5	Ug/l	No
Cyanazine	01/11/10	< 0.5	Ug/l	No
Diazinon	01/11/10	< 1	Ug/l	No
Dicamba	01/11/10	< 5	Ug/l	No
1,2-Dichlorobenzene	01/11/10	< 0.1	Ug/l	No
1,4-Dichlorobenzene	01/11/10	< 0.2	Ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	01/11/10	< 0.1	Ug/l	No
1,2-Dichloroethane	01/11/10	< 0.1	Ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	01/11/10	< 0.1	Ug/l	No
Dichloromethane	01/11/10	< 0.3	Ug/l	No
2-4 Dichlorophenol	01/11/10	< 0.1	Ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/11/10	< 5	Ug/l	No
Diclofop-methyl	01/11/10	< 0.5	Ug/l	No
Dimethoate	01/11/10	< 1	Ug/l	No
Dinoseb	01/11/10	< 0.5	Ug/l	No
Diquat	01/11/10	< 5	Ug/l	No
Diuron	01/11/10	< 5	Ug/l	No
Glyphosate	01/11/10	< 25	Ug/l	No
Heptachlor + Heptachlor Epoxide	01/11/10	< 0.1	Ug/l	No
Lindane (Total)	01/11/10	< 0.1	Ug/l	No
Malathion	01/11/10	< 5	Ug/l	No
Methoxychlor	01/11/10	< 0.1	Ug/l	No
Metolachlor	01/11/10	< 3	Ug/l	No
Metribuzin	01/11/10	< 3	Ug/l	No
Monochlorobenzene	01/11/10	< 0.2	Ug/l	No
Paraquat	01/11/10	< 1	Ug/l	No
Parathion	01/11/10	< 3	Ug/l	No
Pentachlorophenol	01/11/10	< 0.1	Ug/l	No
Phorate	01/11/10	< 0.3	Ug/l	No
Picloram	01/11/10	< 5	Ug/l	No
Polychlorinated Biphenyls(PCB)	01/11/10	< 0.05	Ug/l	No
Prometryne	01/11/10	< 0.1	Ug/l	No
Simazine	01/11/10	< 0.5	Ug/l	No
THM (NOTE: show latest annual average)	10/13/10	93	Ug/l	No
Temphos	01/11/10	< 10	Ug/l	No
Terbufos	01/11/10	< 0.3	Ug/l	No
Tetrachloroethylene	01/11/10	< 0.2	Ug/l	No
2,3,4,6-Tetrachlorophenol	01/11/10	< 0.1	Ug/l	No
Triallate	01/11/10	< 10	Ug/l	No
Trichloroethylene	01/11/10	< 0.1	Ug/l	No
2,4,6-Trichlorophenol	01/11/10	< 0.1	Ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	01/11/10	< 10	Ug/l	No



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Trifluralin	01/11/10	< 0.5	Ug/l	No
Vinyl Chloride	01/11/10	< 0.2	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
THM	93	Ug/l	Jan 11/10 – Oct 13/10

February 25, 2011

David Simmons

For

Plants Department

Township of Whitewater Region