



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220008863
Drinking-Water System Name:	Whitechurch Well Supply
Drinking-Water System Owner:	Township of Huron Kinloss
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1/2009 – December 31/2009

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.

Veolia Water Canada
100 Cove Rd., Goderich ON N7A 3Z2
Township of Huron Kinloss
Box 130, Ripley, ON N0G 2R0

Complete for all other Categories.

Number of Designated Facilities served:

N/A

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

Number of Interested Authorities you report to:

N/A

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 []



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. Supplied report to the Township of Huron-Kinloss to notify residents.

Describe your Drinking-Water System:

Two drilled groundwater wells located southeast of a new pumphouse #1 (NAD 83, UTM Zone 17, 467427 E, 4862859 N) with a 156 mm inner diameter steel casings, depth approximately 73m, #2 (NAD 83, UTM Zone 17, 4862837N, 467427E) -156 mm casing depth approximately 55 m. Each well is equipped with a 3.7 kW submersible pump, each rated at 3.28 L/s at 69m TDH. Sodium hypochlorite disinfection equipment consisting of two (2) chemical feed pumps, duty and standby, rated at 3.75 L/hr, one 114 L sodium silicate storage tank and two (2) chemical feed pumps, duty and standby, raw water flow meters on each well, effluent turbidimeter for monitoring purposes only, and on-line chlorine residual analyzer. 15 KW diesel generator and fuel system, located in a sound attenuated, weather-proof enclosure. All in a 5m x 6m building housing treatment and control facilities including five new hydropneumatic pressure control tanks each with a total volume of 450L and an effective volume of 120L, raw water flow control valve, plant service water connection including backflow preventer, process piping, valves, fittings, raw and treated water sample taps, chemical injection points, electrical and SCADA systems.

Maximum Water Taking Well # 1 260 m³/d Well # 2 260 m³/d Total taking 260 m³/d

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:

Programming changes to Chlorine pump controllers so there is no interlock with well pump.
New redundant Auto-dialer installed.
Replaced both Chlorine pumps.

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
Feb. 17/09	Low Cl₂ residual at POE due to Cl₂ pump failure. AWQI # 86665	0.01	mg/L	Cl₂ pump repaired, system flushed. Two sets samples taken resulting in "0" bacteria. Residuals 0.89, 1.16, 1.29, 0.97 mg/L. Precautionary Boil Water Notice issued.	Feb. 24/09
Feb. 18/09	Low Cl₂ residual at POE due to malfunction of Cl₂ feed system. AWQI # 86698	0.00	mg/L	Boil water notice already in effect from Feb. 17/09 event. Two sets samples taken resulting in "0" bacteria. Residuals 0.89, 1.16, 1.29, 0.97 mg/L.	Feb. 24/09
Mar. 21/09	Low Cl₂ residual at POE due to malfunction of Cl₂ feed system. AWQI # 87225	0.01	mg/L	Cl₂ feed system repaired, system flushed. Two sets samples taken resulting in "0" bacteria. Residuals 1.13, 0.98 mg/L. Precautionary Boil Water Notice issued.	Mar. 27/09



Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
June 2/09	Low Cl ₂ residual at POE due to malfunction of Cl ₂ feed system. AWQI # 88357	0.03	mg/L	Cl ₂ feed system repaired, system flushed. Two sets samples taken resulting in "0" bacteria. Precautionary Boil Water Notice issued.	June 8/09
July 12/09	Low Cl ₂ residual at POE due to Cl ₂ pump failure. AWQI # 89328	0.02	mg/L	Cl ₂ pump repaired, system flushed. Two sets samples taken resulting in "0" bacteria. Precautionary Boil Water Notice Issued.	July 20/09
Sept. 11/09	Low Cl ₂ residual at POE due to Cl ₂ pump failure. AWQI # 91193	0.05	mg/L	Cl ₂ pump repaired, system flushed. Two sets samples taken resulting in "0" bacteria. Residual 1.56 mg/L. Precautionary Boil Water Notice issued.	Sept. 28/09
Sept. 15/09	Low Cl ₂ residual at POE due to Cl ₂ pump failure. AWQI # 91231	0.04	mg/L	Cl ₂ pump repaired, system flushed. Boil Water Notice from Sept. 11/09 still in effect.	Sept. 28/09



Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
Sept. 20/09	Low Cl ₂ residual at POE due to Cl ₂ feed system failure and programming problem with controllers. AWQI # 91330	0.00	mg/L	Cl ₂ feed system repaired, system flushed, programming error corrected. Two sets samples taken resulting in "0" bacteria. Boil Water Notice from Sept. 11/09 still in effect.	Sept. 28/09
Sept. 22/09	Low Cl ₂ residual at POE during Cl ₂ pump maintenance. AWQI # 91373	0.28	mg/L	Cl ₂ pump repaired, system flushed. Two sets samples taken resulting in "0" bacteria. Boil Water Notice from Sept. 11/09 still in effect.	Sept. 28/09
Dec. 27/09	Low Cl ₂ residual at POE due to Cl ₂ pump malfunction. AWQI # 92880	0.00	mg/L	Cl ₂ pump replaced, system flushed. Two sets samples taken resulting in "0" bacteria. Precautionary Boil Water Notice issued.	Dec. 31/09

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		0			
Treated		0	0		<10 - 50
Distribution		0	0		<10 - 30



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 #)
Raw Turbidity		NTU
On-line Turbidity	8760	
On-line Chlorine	8760	0.00 – 5. mg/L
Treated Chlorine		
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
Feb. 21/07	Barium	Feb. 10/09	970	µg/L
		May 5/09	1090	
		Aug. 11/09	1180	
		Nov. 10/09	1080	

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

*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	N/A		
Distribution	N/A		



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

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

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
Barium	970	µg/L	Feb. 10/09
	1090		May 5/09
	1180		Aug. 11/09
	1080		Nov. 10/09

