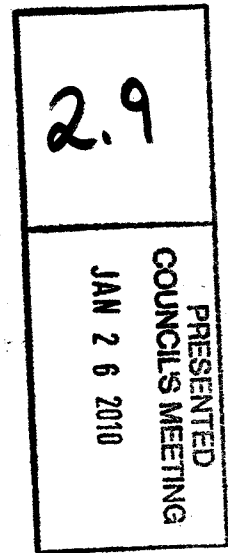




THE CORPORATION OF THE
TOWN OF TECUMSEH

Public Works & Environmental Services
Report No. 06/10



TO: Mayor and Members of Council
FROM: Denis Berthiaume, Area Manager, Water
DATE: January 18, 2010
SUBJECT: 2009 Annual Summary Report
Tecumseh Distribution System

RECOMMENDATIONS

It is recommended that:

1. Council adopt the Annual Summary Report for the Tecumseh Distribution System (260004969) for the Year 2009, as prepared in accordance with the *Safe Drinking Water Act*, O. Reg. 170/03, Schedule 22 Summary Report.
2. The annual report be made available for public viewing through the Town of Tecumseh website.

BACKGROUND

The *Safe Water Dinking Act*, O. Reg. 170/3, requires every municipality to complete an annual report on the water systems they operate. This report is to be adopted by the local Council and made available to the public.

COMMENTS

The Water Department prepared the annual report for the Water Distribution System for the Town of Tecumseh. See attached.

The format in which the report is prepared is a requirement of the Ministry of the Environment (MOE). Three sections must be included within the report:

1. An overview of the required information in accordance with Schedule 22 of O.Reg 170/03 under the Safe Drinking Water Act (SDWA).
2. A list of non-compliance issues.
3. An assessment of the system's capability regarding flows per cubic meter.

Upon Council's acceptance of the report, the Town is legislatively required to notify the public that the report is available for review.

Administration recommends Council adopt the Annual Summary Report for the Tecumseh Distribution System (260004969) for the Year 2009, and request the report be placed on the Town's website for public access.

CONSULTATIONS

Ministry of the Environment

FINANCIAL IMPLICATIONS

There are no financial implications.

This report has been reviewed by senior Administration as indicated below and recommended for submission by the CAO.

Prepared by:



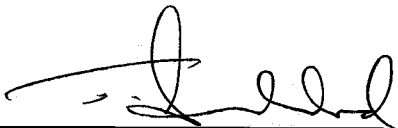
Denis Berthiaume
Area Manager, Water

Reviewed by:



George De Groot, CET, CMM
Director, Public Works & Environmental
Services

Recommended by:



Tony Haddad, MSA, CMO, CPFA
Chief Administrative Officer

Attachment(s):

1. Annual Summary Report for the Tecumseh Distribution System (260004969) for the Year 2009
2. Drinking-Water Systems Regulation O.Reg. 170/03, Optional Annual Report Template

DB

ANNUAL SUMMARY REPORT

For the

TECUMSEH DISTRIBUTION SYSTEM

(260004969)

For the year

2009

Prepared for the Town of Tecumseh

**By Denis Berthiaume, Area Manager
Water Services**

Table of Contents

Section 1: Overview	3
Section 2: Non-compliance Issues	3
Section 3: System Capability.....	5

Section 1: Overview

This report has been prepared and submitted in accordance with Schedule 22 of O. Reg 170/03 under the Safe Drinking Water Act (SDWA). Schedule 22 requires:

The owner of a drinking-water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (1) and (2) for the preceding calendar year and is given to the members of the municipal council.

Schedule 22 also states that:

- 1) The report must:
 - a) list the requirements of the Act, the regulations, the system's approval and any order that the system failed to meet at any time during the period covered by the report and specify the duration of the failure; and
 - b) for each failure referred to in clause (a), describe the measures that were taken to correct the failure.
- 2) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system. A summary of the quantities of the water supplied during the period covered by the report, including monthly flows.

In June 2003, the provincial Safe Drinking Water Act (SDWA) came into effect. The Drinking-Water Systems Regulation (O.Reg 170/03) defines how various drinking-water systems are to be operated.

According to this Regulation, the Tecumseh Distribution System is classified as a Large Municipal Residential System (LMR).

Section 2: Non-Compliance Issues

During the inspection period, there was (1) non-compliance issue in the Tecumseh Distribution System.

August 25, 2009 a contractor, hired by the Town of Tecumseh, performed a wet tap on a twelve inch watermain without a certified operator present at the time to oversee the work. The Town has a procedure/guideline in place whereby any work performed on the Town's water system by an uncertified contractor must be overseen by one of the Town's certified operators. The operating authority noted that the contractor was aware of the Town's procedure/guideline but, despite this, the contractor performed the work. As a result, the Town removed the contractor's supervisor, as well as the consultant's field technician, from this site for the duration of the project. In addition, the Town reviewed its watermain procedures with the contractors, subcontractors and consulting firm. It should be noted that the Ministry, as well as the Health Unit, were advised of this incident as soon as the Town became aware.

Action(s) Required:

The owner/operating authority are to ensure that uncertified persons who are performing "operating" functions on their water system are:

1. directly supervised by a certified operator (meaning the certified operator is physically present and monitoring the work being performed), and
2. that the uncertified persons are aware of the Town's procedures/guidelines to follow when performing such works.

Action by Town

The Town of Tecumseh Water Department will review and provide a copy of procedures/guidelines to all contractors/inspectors, conducting work on the Town Water Distribution System. The Town of Tecumseh Water Department will continue past practice of ensuring a certified operator is physically present and monitoring uncertified persons as required by the Ministry of the Environment.

Section 3: System Capability – 2009 Water Consumption

2009 Water Consumption	
Month	Cubic Meters/ Gallons
January	149,556
February	192,447
March	156,294
April	115,883
May	105,400
June	228,226
July	151,365
August	307,747
September	220,050
October	284,190
November	152,656
December	121,095
Total	2,184,909



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260004969
Drinking-Water System Name:	Town of Tecumseh Distribution System
Drinking-Water System Owner:	The Corporation of The Town of Tecumseh
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	01- January -2009 to 31- December - 2009

<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 [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</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;"> <p>Town of Tecumseh Municipal Office 917 Lesperance Road Tecumseh, Ontario N8N 1W9</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div> </p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [<input type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Number of Interested Authorities you report to: <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> </p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</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 all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Lakeshore Dist. System	260004982

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 _____

Describe your Drinking-Water System

Water Distribution System

The Town of Tecumseh, City of Windsor Utilities Commission (WUC) entered into a 50-year Service Agreement in November 2004. The Service Agreement was implemented on March 31, 2006 when four boundary metering chambers were installed and maintained by the Town of Tecumseh. Tecumseh's drinking water system also includes a water tower located on Tecumseh Road, with no re-chlorination stations within the distribution system

Prior to August 1, 2008, WUC provided water to 2,400 residents in the former Township of Sandwich South, south of Highway 401 ("South Water Area"). The Town installed eight additional boundary meter chambers and assumed the responsibility for the operations and maintenance of the water distribution system from WUC in this South Water Area effective August 1, 2008.

The Town of Tecumseh and the Town of Lakeshore entered into an agreement on May 13, 2003 whereby the Tecumseh distribution system supplies drinking water to the Lakeshore distribution system. This agreement expired on December 31, 2007 and is currently being renegotiated; the status quo is maintained until a new agreement is signed.

List all water treatment chemicals used over this reporting period

N/A

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment



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

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

NIL

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
NIL					

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					
Treated					
Distribution	516	0 to 0		149	0 to 10

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		
Chlorine	616	Max 1.23 mg Min .20 mg
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



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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
*Lead	* Not required in 2009 due to results from 2008 sampling			
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

*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	Not required * see note above		
Distribution	Not required * See note above		



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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4-Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				



Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)	Every 4 months	13.5	Ug/L	no
Temephos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

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			