#### **Annual Reports**

Copies of the annual reports must be available to the public free of charge according to O.Reg 170/03. Copies are available at the Public Works building at 3 Lorraine Street in Virgil. These reports are accessible on the Town's Website.

### 2011 Annual Report for Niagara-on-the-Lake Drinking Water System

Drinking-Water System Number:
Drinking-Water System Name:
Drinking-Water System Owner:
Drinking-Water System
Category:
Period being reported:

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260001380	
Niagara-on-the-Lake Distribution System	
Town of Niagara-on-the-Lake	
Large Municipal Residential	
January 1 - December 31, 2011	

<u>Complete if your Category is Large</u> <u>Municipal Residential or Small Municipal</u> Residential

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

Is your annual report available to the public at no charge on a web site on the Internet?

Yes [x ] No [ ]

Town of Niagara-on-the-Lake Public Works Department 3 Lorraine Street Virgil, Ontario LOS 1T0 Complete for all other Categories.

Number of Designated Facilities served:

NA

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [ ] No [ ] NA[x]

Number of Interested Authorities you report to NA

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ] NA [x]

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
N/A – not applicable	N/A - not applicable

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 [] NA[x]

Indicate how you notified system us	ers that your a	nnual report is a	vailable, and is
free of charge.			

- [x] Public access/notice via the web
- [x] Public access/notice via Government Office
- [x] Public access/notice via a newspaper
- [x] 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 Region of Niagara at its DeCew Falls and Niagara Falls water treatment plants produce treated water for the Town of Niagara-on-the-Lake. The treated water is carried by a series of transmission mains and storage facilities to the Town. In turn, water is distributed to approximately 5658 customers in Niagara-on-the-Lake via more than 188 km of Town distribution mains. There are approximately 1177 fire hydrants and 1144 valves on the distribution systems.

#### List all water treatment chemicals used over this reporting period

N/A – This is a distribution system only. Information on the treatment of water supply would need to be obtained from the Region of Niagara

## Were any significant expenses incurred to?

- [ ] Install required equipment
- [x] Repair required equipment
- [x] Replace required equipment

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

The cost for maintenance, operation, administration and water procurement for all of Niagara-on-the-Lake's water distribution system, including Bevan Heights, was approximately \$3,100,000 in 2011. Capital costs for the replacement of approximately 1,275 m of watermains was \$720,000 in 2011.

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
01/19/2011	Total Coliform	1	cfu/100 ml	Resample/Retest	01/20/2011
05/17/2011	Total Coliform	4	cfu/100 ml	Resample/Retest	05/20/2011
09/06/2011	Free Chlorine	0.03	Mg/L	Flush & Resample	09/06/2011
10/11/2011	Free Chlorine	0.04	Mg/L	Flush & Resample	10/11/2011
10/31/2011	Free Chlorine	0.02	Mg/L	Flush & Resample	10/31/2011
12/08/2011	Free Chlorine	0.00	Mg/L	Flush & Resample	12/08/2011

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	487	0	0-4	487	0-91

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	1004	0.0-1.55
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.

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				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

<sup>\*</sup>only for drinking water systems testing under Schedule 15.2; this includes large municipal nonresidential 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	0*	NA	NA
Distribution	0*	NA	NA

<sup>\*</sup>This Drinking Water System has met the requirements of Subsection 15.1 – 5(9) of Schedule 15.1 of 0. Reg 170/03 and therefore was not required to test for lead in 2011.

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedanc e
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metobolites				
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)	March 8, June 17, Sept 8 & Dec 8, 2011	26.3	μg/L	NA
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
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