



SECTION 11 ANNUAL REPORT

Drinking-Water System Number:	220000479
Drinking-Water System Name:	Norwood Well Supply System
Drinking-Water System Owner:	The Corporation of the Township of Asphodel-Norwood
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2009 to December 31, 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 [] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <table border="1"> <tr> <td>Public access/notice via the web Public access/notice via Government Office</td> </tr> </table>	Public access/notice via the web Public access/notice via Government Office	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <table border="1"><tr><td>NONE</td></tr></table></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to: <table border="1"><tr><td>NONE</td></tr></table></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>	NONE	NONE
Public access/notice via the web Public access/notice via Government Office				
NONE				
NONE				

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 _____



Describe your Drinking-Water System

A groundwater well supply system consisting of 3 wells with sodium hypochlorite disinfection. The facility has on-line, alarmed continuous monitoring for treated water free chlorine residual and turbidity and for distribution water free chlorine residual. Sodium silicate and sodium hydroxide are used in conjunction to alter pH and suppress aggressive water in the distribution system.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite – 12%
Sodium Silicate
Sodium Hydroxide – 25%

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

◆ Purchase of 2 new sodium hypochlorite feed pumps – Approx. \$2600.

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
NONE					

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 – Well 1	52	0 - 0	0 – 0		Not Required
Raw – Well 2	52	0 - 0	0 – 0		Not Required
Raw – Well 3	52	0 - 0	0 – 1		Not Required
Treated	52	0 - 0	0 - 0	52	0 – 2
Distribution	122	0 - 0	0 - 0	122	0 - 33



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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, Raw Well 1 (NTU)	12	0.06 – 0.11
Turbidity, Raw Well 2 (NTU)	12	0.06 – 0.09
Turbidity, Raw Well 3 (NTU)	12	0.05 – 0.11
Turbidity, Treated (NTU)	8760	0.002 – 1.0
Chlorine, Treated Pre Tower	8760	0.004 – 2.00
Chlorine, Treated Pre Tower	162	1.20 – 1.90
Chlorine, Treated Post Tower	8760	0.71 – 1.66
Chlorine, Treated Post Tower	160	0.98 – 1.57
Chlorine, Distribution	8760	0.74 – 1.54
Chlorine, Distribution	65	0.90 – 1.48
Fluoride (If the DWS provides fluoridation)	n/a	n/a

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
CofA No. 6187-7FXKKQ issued June 27, 2008	Dioxin and Furan, Treated	2009/03/10	0.00	ppq
	Nitritotriacetic Acid, Treated	2009/03/10	<0.03	mg/L

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

Parameter	Sample Date	Result Value	Exceedance
Antimony: Sb (ug/L) - TW	2007/03/19	< 0.20	No
Arsenic: As (ug/L) - TW	2007/03/19	< 0.20	No
Barium: Ba (ug/L) - TW	2007/03/19	119.00	No
Boron: B (ug/L) - TW	2007/03/19	16.00	No
Cadmium: Cd (ug/L) - TW	2007/03/19	< 0.060	No



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Chromium: Cr (ug/L) - TW	2007/03/19	2.00	No
Mercury: Hg (ug/L) - TW	2007/03/19	< 0.020	No
Selenium: Se (ug/L) - TW	2007/03/19	< 1.00	No
Sodium: Na (mg/L) - TW	2008/09/10	33.40	Yes
Uranium: U (ug/L) - TW	2007/03/19	0.13	No
Fluoride Residual: Mean (mg/L) - TW	2008/09/02	0.060	No
Nitrite (mg/L) - TW	2009/01/05	< 0.0050	No
Nitrite (mg/L) - TW	2009/04/06	< 0.0050	No
Nitrite (mg/L) - TW	2009/07/06	< 0.0050	No
Nitrite (mg/L) - TW	2009/10/05	< 0.0050	No
Nitrate (mg/L) - TW	2009/01/05	2.15	No
Nitrate (mg/L) - TW	2009/04/06	1.80	No
Nitrate (mg/L) - TW	2009/07/06	1.96	No
Nitrate (mg/L) - TW	2009/10/05	2.00	No

Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Sample Locations	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	24	0.12 – 24.4	1
Distribution	8	0.03 – 1.42	0

*Lead sampling was not performed by the operating authority, Ontario Clean Water Agency, but by the Township of Asphodel-Norwood.

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

Parameter	Sample Date	Result Value	Exceedance
Alachlor (ug/L) - TW	2007/03/19	< 0.11	No
Aldicarb (ug/L) - TW	2007/03/19	< 0.30	No
Aldrin + Dieldrin (ug/L) - TW	2007/03/19	< 0.067	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2007/03/19	< 0.12	No
Azinphos-methyl (ug/L) - TW	2007/03/19	< 0.21	No
Bendiocarb (ug/L) - TW	2007/03/19	< 0.13	No
Benzene (ug/L) - TW	2007/03/19	< 0.37	No
Benzo(a)pyrene (ug/L) - TW	2007/03/19	< 0.0040	No
Bromoxynil (ug/L) - TW	2007/03/19	< 0.33	No
Carbaryl (ug/L) - TW	2007/03/19	< 0.16	No
Carbofuran (ug/L) - TW	2007/03/19	< 0.37	No
Carbon Tetrachloride (ug/L) - TW	2007/03/19	< 0.41	No
Chlordane:Total (ug/L) - TW	2007/03/19	< 0.11	No
Chlorpyrifos (ug/L) - TW	2007/03/19	< 0.18	No
Cyanazine (ug/L) - TW	2007/03/19	< 0.18	No
Diazinon (ug/L) - TW	2007/03/19	< 0.081	No
Dicamba (ug/L) - TW	2007/03/19	< 0.20	No
1,2-Dichlorobenzene (ug/L) - TW	2007/03/19	< 0.50	No
1,4-Dichlorobenzene (ug/L) - TW	2007/03/19	< 0.21	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L) - TW	2007/03/19	< 0.14	No
1,2-Dichloroethane (ug/L) - TW	2007/03/19	< 0.43	No



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1,1-Dichloroethylene (ug/L) - TW	2007/03/19	< 0.41	No
Dichloromethane (ug/L) - TW	2007/03/19	< 0.34	No
2,4-Dichlorophenol (ug/L) - TW	2007/03/19	< 0.15	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2007/03/19	< 0.19	No
Diclofop-methyl (ug/L) - TW	2007/03/19	< 0.40	No
Dimethoate (ug/L) - TW	2007/03/19	< 0.12	No
Dinoseb (ug/L) - TW	2007/03/19	< 0.36	No
Diquat (ug/L) - TW	2007/03/19	< 1.00	No
Diuron (ug/L) - TW	2007/03/19	< 0.087	No
Glyphosate (ug/L) - TW	2007/03/19	< 6.00	No
Heptachlor+Hepachlor Epoxide (ug/L) - TW	2007/03/19	< 0.11	No
Lindane: (ug/L) - TW	2007/03/19	< 0.056	No
Malathion (ug/L) - TW	2007/03/19	< 0.091	No
Methoxychlor (ug/L) - TW	2007/03/19	< 0.14	No
Metolachlor (ug/L) - TW	2007/03/19	< 0.092	No
Metribuzin (ug/L) - TW	2007/03/19	< 0.12	No
Monochlorobenzene (ug/L) - TW	2007/03/19	< 0.58	No
Paraquat (ug/L) - TW	2007/03/19	< 1.00	No
Parathion (ug/L) - TW	2007/03/19	< 0.18	No
Pentachlorophenol (ug/L) - TW	2007/03/19	< 0.15	No
Phorate (ug/L) - TW	2007/03/19	< 0.11	No
Picloram (ug/L) - TW	2007/03/19	< 0.25	No
Polychlorinated Bichenysl(PCB) (ug/L) - TW	2007/03/19	< 0.040	No
Prometryne (ug/L) - TW	2007/03/19	< 0.23	No
Simazine (ug/L) - TW	2007/03/19	< 0.15	No
THM (ug/L)	2009	23.50	No
Temephos (ug/L) - TW	2007/03/19	< 0.31	No
Terbufos (ug/L) - TW	2007/03/19	< 0.12	No
Tetrachloroethylene (ug/L) - TW	2007/03/19	< 0.45	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2007/03/19	< 0.14	No
Triallate (ug/L) - TW	2007/03/19	< 0.10	No
Trichloroethylene (ug/L) - TW	2007/03/19	< 0.38	No
2,4,6-Trichlorophenol (ug/L) - TW	2007/03/19	< 0.25	No
2,4,5-Trichlorophenoxy acetic acid (ug/L) - TW	2007/03/19	< 0.22	No
Trifluralin (ug/L) - TW	2007/03/19	< 0.12	No
Vinyl Chloride (ug/L) - TW	2007/03/19	< 0.17	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
NONE			