

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220002413
Drinking-Water System Name:	York Drinking Water System - Newmarket
Drinking-Water System Owner:	Regional Municipality of York
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2010 to December 31, 2010

<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 [X] No []</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> <div style="border: 1px solid black; padding: 5px;"> <p>Regional Municipality of York Administration Building Environmental Services Department 17250 Yonge Street Newmarket, Ontario</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> </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: <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div></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>
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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
Newmarket Water Distribution System	260003188
Yonge/Green Lane Distribution System	260087685

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 []

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

York Region operates six production wells in the Town of Newmarket. The Newmarket wells draw water from the Yonge Street Aquifer which is also the water source for the Town of Aurora and parts of the Town of East Gwillimbury.

Water withdrawal from each of the wells is regulated by a Permit to Take Water, issued by the Ministry of the Environment for the Yonge Street Aquifer as a whole. York Region is continuing to work to improve our understanding of the Yonge Street Aquifer and the effects of water taking through detailed hydrogeological studies, numerical modeling analysis and an extensive monitoring program. The Newmarket Water Supply System receives some of its water from the Queensville Water Supply System. Queensville Wells #1, #2, #3 and #4 supply 85% of their production to the Newmarket Water Supply System.

Chloramination (adding chlorine and ammonia) is the disinfection process used for the Newmarket production wells. Sodium silicate is added to the water to reduce the potential for iron to stain plumbing fixtures and laundry in the serviced area.

Following treatment, water enters the Town of Newmarket distribution system from four points: wells #1 and #2 combined, wells #13 and #16 combined, well #14 and well #15. There are six storage facilities in Newmarket. There is a back up supply to the community from the Aurora Well Supply System.

York Region is the wholesale supplier of water to the Town of Newmarket and is responsible for the supply, production, treatment and storage of water. The Town of Newmarket owns and operates the distribution system that delivers the water from the Regional water mains to homes in the Town of Newmarket.

List all water treatment chemicals used over this reporting period

Chlorine Gas

Sodium Hypochlorite 12%

Sodium Silicate

Ammonium Sulphate

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
Some of the following expenditures represent only part of the total project costs.

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
December 7, 2010	Combined Chlorine Residual	0.04	Mg/l	YR opened valve while Town of Newmarket flushed. Initial sample low, continued flushing (.5 hour) until residual came up.	Dec 7, 2010
Oct 24, 2010	Free Chlorine Residual	0.203	Mg/l	Caused when central zone wells start up and there is a "slug" of water from 400mm line.	Oct 24, 2010
June 1, 2010	Combined Chlorine Residual	0.13	Mg/L	Drained Tank and advised Town of Newmarket and fire department.	September 30, 2009

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	238	0	0		
Treated	152	0	0	152	1-140
Distribution					

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 (Treated)	8760	0.022 – 5.008

***NOTE:** For continuous monitors use 8760 as the number of samples.*

Turbidity (Raw)	56	0.18 – 4.88
Chlorine	8760	0.142 – 3.320
Fluoride (If the DWS provides fluoridation)		

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

NOTE: see attached results for Inorganic parameters.

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

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

NOTE: see attached results for Organic parameters (THM values in table below)

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)		0.006	Mg/L	
Wells #1, #2		0.007	Mg/L	
Wells #13, #16		N/A	Mg/L	
Well #14			Mg/L	
Well #15		0.008	Mg/L	
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				

York Region monitors another group of disinfection by-products called haloacetic acids (HAAs). There are no limits set for HAAs in Ontario Drinking Water Standards.

Haloacetic acid	Wells #1, #2 Mg/L June 30	Wells #13, #16 Mg/L June 30	Well #14 Mg/L June 30	Well #15 Mg/L June 30
Bromochloroacetic acid	0.004	0.004	Out of Service	0.004
Dibromoacetic acid	0.004	0.004	Out of Service	0.004
Dichloroacetic acid	0.004	0.004	Out of Service	0.004
Monobromoacetic acid	0.004	0.004	Out of Service	0.004
Monochloroacetic acid	0.02	0.02	Out of Service	0.02
Trichloroacetic acid	0.004	0.004	Out of Service	<0.004

“<” indicates the result is below the Method Detection Limit

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

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)



Organics Test Results

Reading	Units	ODWS		18/01/2010	12/04/2010	03/05/2010	17/05/2010	31/05/2010	14/06/2010
Antimony as Sb	mg/L	0.006	IMAC	0.0004	0.0001				
Arsenic as As	mg/L	0.025	IMAC	0.0004	0.0002				
Barium as Ba	mg/L	1	MAC		0.179				
Boron as B	mg/L	5	IMAC		0.04				
Cadmium as Cd	mg/L	0.005	MAC	0.0001	< 0.0001				
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001				
Fluoride as F	mg/L	1.5	MAC	0.162	0.127	0.168	0.13	0.121	0.13
Lead as Pb	mg/L	0.01	MAC	0.0002	0.0001				
Mercury as Hg	mg/L	0.001	MAC		< 0.00002				
Nitrate + Nitrite as N	mg/L	10	MAC	0.02	< 0.03	0.03	0.03	< 0.01	0.012
Nitrate as N	mg/L	10	MAC	0.014	0.013	0.008	0.011	0.007	0.012
Nitrite	mg/L	1	MAC	0.006	< 0.005	0.019	0.016	< 0.002	< 0.002
Selenium as Se	mg/L	0.01	MAC	0.0004	0.0001				
Sodium as Na	mg/L			15.5	15.5	15.2	13.6	14.7	14.9
Uranium as U	mg/L	0.02	MAC		< 0.0001				

"<": indicates the result is below Method Detection Limit
 ODWS: Ontario Drinking Water Standard
 MAC: Ontario Drinking Water Standard - Health Related (Maximum Acceptable Concentration)
 AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)
 mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS		28/06/2010	26/07/2010	29/07/2010	09/08/2010	23/08/2010	06/09/2010
Antimony as Sb	mg/L	0.006	IMAC			0.0004			
Arsenic as As	mg/L	0.025	IMAC			0.0002			
Barium as Ba	mg/L	1	MAC						
Boron as B	mg/L	5	IMAC						
Cadmium as Cd	mg/L	0.005	MAC			< 0.0001			
Chromium as Cr	mg/L	0.05	MAC			< 0.0001			
Fluoride as F	mg/L	1.5	MAC	0.13	0.18	0.12	0.12	0.14	0.16
Lead as Pb	mg/L	0.01	MAC			0.0001			
Mercury as Hg	mg/L	0.001	MAC						
Nitrate + Nitrite as N	mg/L	10	MAC	0.023	0.011	0.023	0.011	0.009	0.013
Nitrate as N	mg/L	10	MAC	0.01	0.011	0.009	0.011	0.009	0.013
Nitrite	mg/L	1	MAC	0.013	< 0.005	0.014	< 0.005	< 0.005	< 0.005
Selenium as Se	mg/L	0.01	MAC			< 0.0001			
Sodium as Na	mg/L			14.6	15.1	15.1	14.9	14.8	14.8
Uranium as U	mg/L	0.02	MAC						

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Organics Test Results

Reading	Units	ODWS		20/09/2010	11/10/2010	25/10/2010	15/12/2010	29/12/2010
Antimony as Sb	mg/L	0.006	IMAC			0.0003		
Arsenic as As	mg/L	0.025	IMAC			0.0003		
Barium as Ba	mg/L	1	MAC					
Boron as B	mg/L	5	IMAC					
Cadmium as Cd	mg/L	0.005	MAC			< 0.0001		
Chromium as Cr	mg/L	0.05	MAC			0.0008		
Fluoride as F	mg/L	1.5	MAC	0.12	0.15	0.15	0.16	0.15
Lead as Pb	mg/L	0.01	MAC			< 0.0001		
Mercury as Hg	mg/L	0.001	MAC					
Nitrate + Nitrite as N	mg/L	10	MAC	0.023	0.024	0.024	0.065	0.018
Nitrate as N	mg/L	10	MAC	0.01	0.009	0.01	0.012	0.018
Nitrite	mg/L	1	MAC	0.013	0.015	0.014	0.053	< 0.005
Selenium as Se	mg/L	0.01	MAC			0.0002		
Sodium as Na	mg/L			14.7	14.8	13.1	13.9	16.4
Uranium as U	mg/L	0.02	MAC					

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 mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS	18/01/2010	12/04/2010	29/07/2010	11/08/2010	25/10/2010
(DDT) + Metabolites	mg/L	0.03	MAC		< 0.000008		
1,1-dichloroethylene (vinylidene chloride)	mg/L	0.014	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
2,3,4,6-Tetrachlorophenol	mg/L	0.1	MAC			< 0.0005	
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	mg/L	0.28	MAC			< 0.0005	
2,4,6-Trichlorophenol	mg/L	0.005	MAC			< 0.0005	
2,4-Dichlorophenol	mg/L	0.9	MAC			< 0.0007	
2,4-dichlorophenoxyacetic acid (2,4-D)	mg/L	0.1	IMAC			< 0.0008	
Alachlor	mg/L	0.005	IMAC			< 0.0004	
Aldicarb	mg/L	0.009	MAC				< 0.0045
Aldrin + Dieldrin	mg/L	0.0007	MAC			< 0.000006	
Atrazine + N-dealkylated metabolites	mg/L	0.005	IMAC			< 0.0002	
Azinphos-methyl	mg/L	0.02	MAC			< 0.0003	
Bendiocarb	mg/L	0.04	MAC				< 0.003
Benzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Benzo(a)pyrene	mg/L	0.00001	MAC			< 0.00001	
Bromoxynil	mg/L	0.005	IMAC			< 0.0004	
Carbaryl	mg/L	0.09	MAC				< 0.003
Carbofuran	mg/L	0.09	MAC				< 0.003
Carbon Tetrachloride	mg/L	0.005	MAC	< 0.0002	< 0.0002	< 0.0002	0.0002
Chlordane (Total)	mg/L	0.007	MAC			< 0.000006	
Chlorpyrifos	mg/L	0.09	MAC			< 0.0002	
Cyanazine	mg/L	0.01	IMAC			< 0.0003	
Diazinon	mg/L	0.02	MAC			< 0.0002	
Dicamba	mg/L	0.12	MAC			< 0.0004	
Dichloromethane	mg/L	0.05	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Diclofop-methyl	mg/L	0.009	MAC			< 0.0004	
Dimethoate	mg/L	0.02	IMAC			< 0.0003	
Dinoseb	mg/L	0.01	MAC			< 0.0005	
Diquat	mg/L	0.07	MAC				< 0.001
Diuron	mg/L	0.15	MAC				< 0.003
Glyphosate	mg/L	0.28	IMAC				< 0.025
Heptachlor + Heptachlor Epoxide	mg/L	0.003	MAC			< 0.000008	
Lindane	mg/L	0.004	MAC			< 0.000005	
Malathion	mg/L	0.19	MAC			< 0.0002	
Methoxychlor	mg/L	0.9	MAC			< 0.000009	
Metolachlor	mg/L	0.05	IMAC			< 0.0002	
Metribuzin	mg/L	0.08	MAC			< 0.0003	
Monochlorobenzene	mg/L	0.08	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Paraquat	mg/L	0.01	IMAC				< 0.001
Parathion	mg/L	0.05	MAC			< 0.0002	



Organics Test Results

Reading	Units	ODWS		18/01/2010	12/04/2010	29/07/2010	11/08/2010	25/10/2010
Pentachlorophenol	mg/L	0.06	MAC			< 0.0004		
Phorate	mg/L	0.002	IMAC			< 0.0002		
Picloram	mg/L	0.19	IMAC			< 0.0007		
Polychlorinated Biphenyls (PCBs)	mg/L	0.003	IMAC			< 0.00002		
Prometryne	mg/L	0.001	IMAC			< 0.0002		
Simazine	mg/L	0.01	IMAC			< 0.0002		
Temephos	mg/L	0.28	IMAC			< 0.003		
Terbufos	mg/L	0.001	IMAC			< 0.0002		
Tetrachloroethylene (perchloroethylene)	mg/L	0.03	MAC	< 0.0003	< 0.0003	< 0.0003		< 0.0003
Triallate	mg/L	0.23	MAC				< 0.004	
Trichloroethene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001		< 0.0001
Trifluralin	mg/L	0.045	IMAC			< 0.000006		
Vinyl Chloride	mg/L	0.002	MAC	< 0.0002	< 0.0002	< 0.0002		< 0.0002

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AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)

mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS		18/01/2010	12/04/2010	29/07/2010	09/08/2010	23/08/2010	06/09/2010
Antimony as Sb	mg/L	0.006	IMAC	0.0004	0.0001	0.0005			
Arsenic as As	mg/L	0.025	IMAC	0.0004	0.0003	0.0002			
Barium as Ba	mg/L	1	MAC		0.135				
Boron as B	mg/L	5	IMAC		0.036				
Cadmium as Cd	mg/L	0.005	MAC	0.0001	< 0.0001	< 0.0001			
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001	< 0.0001			
Fluoride as F	mg/L	1.5	MAC	0.148	0.126	0.11	0.12	0.12	0.12
Lead as Pb	mg/L	0.01	MAC	0.0001	0.0001	0.0001			
Mercury as Hg	mg/L	0.001	MAC		< 0.00002				
Nitrate + Nitrite as N	mg/L	10	MAC	0.02	< 0.03	0.026	0.011	0.012	0.011
Nitrate as N	mg/L	10	MAC	0.011	0.009	0.008	0.011	0.012	0.011
Nitrite	mg/L	1	MAC	0.01	< 0.005	0.018	< 0.005	< 0.005	< 0.005
Selenium as Se	mg/L	0.01	MAC	0.0005	0.0004	0.0001			
Sodium as Na	mg/L			17	16.2	16.5	17	16.9	16.8
Uranium as U	mg/L	0.02	MAC		< 0.0001				

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Reading	Units	ODWS		20/09/2010	11/10/2010	25/10/2010	15/12/2010	29/12/2010
Antimony as Sb	mg/L	0.006	IMAC			0.0003		
Arsenic as As	mg/L	0.025	IMAC			0.0002		
Barium as Ba	mg/L	1	MAC					
Boron as B	mg/L	5	IMAC					
Cadmium as Cd	mg/L	0.005	MAC			< 0.0001		
Chromium as Cr	mg/L	0.05	MAC			0.0003		
Fluoride as F	mg/L	1.5	MAC	0.12	0.14	0.14	0.17	0.14
Lead as Pb	mg/L	0.01	MAC			0.0001		
Mercury as Hg	mg/L	0.001	MAC					
Nitrate + Nitrite as N	mg/L	10	MAC	0.028	0.033	0.03	0.042	0.025
Nitrate as N	mg/L	10	MAC	0.012	0.011	0.008	0.022	0.025
Nitrite	mg/L	1	MAC	0.016	0.022	0.022	0.02	< 0.005
Selenium as Se	mg/L	0.01	MAC			0.0005		
Sodium as Na	mg/L			16.8	16.5	16.1	16.7	16.8
Uranium as U	mg/L	0.02	MAC					

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Organics Test Results

Reading	Units	ODWS	18/01/2010	12/04/2010	29/07/2010	11/08/2010	25/10/2010
(DDT) + Metabolites	mg/L	0.03	MAC		< 0.000008		
1,1-dichloroethylene (vinylidene chloride)	mg/L	0.014	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
2,3,4,6-Tetrachlorophenol	mg/L	0.1	MAC			< 0.0005	
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	mg/L	0.28	MAC			< 0.0005	
2,4,6-Trichlorophenol	mg/L	0.005	MAC			< 0.0005	
2,4-Dichlorophenol	mg/L	0.9	MAC			< 0.0007	
2,4-dichlorophenoxyacetic acid (2,4-D)	mg/L	0.1	IMAC			< 0.0008	
Alachlor	mg/L	0.005	IMAC			< 0.0004	
Aldicarb	mg/L	0.009	MAC				< 0.0045
Aldrin + Dieldrin	mg/L	0.0007	MAC			< 0.000006	
Atrazine + N-dealkylated metabolites	mg/L	0.005	IMAC			< 0.0002	
Azinphos-methyl	mg/L	0.02	MAC			< 0.0003	
Bendiocarb	mg/L	0.04	MAC				< 0.003
Benzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Benzo(a)pyrene	mg/L	0.00001	MAC			< 0.00001	
Bromoxynil	mg/L	0.005	IMAC			< 0.0004	
Carbaryl	mg/L	0.09	MAC				< 0.003
Carbofuran	mg/L	0.09	MAC				< 0.003
Carbon Tetrachloride	mg/L	0.005	MAC	< 0.0002	< 0.0002	< 0.0002	0.0003
Chlordane (Total)	mg/L	0.007	MAC			< 0.000006	
Chlorpyrifos	mg/L	0.09	MAC			< 0.0002	
Cyanazine	mg/L	0.01	IMAC			< 0.0003	
Diazinon	mg/L	0.02	MAC			< 0.0002	
Dicamba	mg/L	0.12	MAC			< 0.0004	
Dichloromethane	mg/L	0.05	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Diclofop-methyl	mg/L	0.009	MAC			< 0.0004	
Dimethoate	mg/L	0.02	IMAC			< 0.0003	
Dinoseb	mg/L	0.01	MAC			< 0.0005	
Diquat	mg/L	0.07	MAC				< 0.001
Diuron	mg/L	0.15	MAC				< 0.003
Glyphosate	mg/L	0.28	IMAC				< 0.025
Heptachlor + Heptachlor Epoxide	mg/L	0.003	MAC			< 0.000008	
Lindane	mg/L	0.004	MAC			< 0.000005	
Malathion	mg/L	0.19	MAC			< 0.0002	
Methoxychlor	mg/L	0.9	MAC			< 0.000009	
Metolachlor	mg/L	0.05	IMAC			< 0.0002	
Metribuzin	mg/L	0.08	MAC			< 0.0003	
Monochlorobenzene	mg/L	0.08	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Paraquat	mg/L	0.01	IMAC				< 0.001
Parathion	mg/L	0.05	MAC			< 0.0002	



Organics Test Results

Reading	Units	ODWS		18/01/2010	12/04/2010	29/07/2010	11/08/2010	25/10/2010
Pentachlorophenol	mg/L	0.06	MAC			< 0.0004		
Phorate	mg/L	0.002	IMAC			< 0.0002		
Picloram	mg/L	0.19	IMAC			< 0.0007		
Polychlorinated Biphenyls (PCBs)	mg/L	0.003	IMAC			< 0.00002		
Prometryne	mg/L	0.001	IMAC			< 0.0002		
Simazine	mg/L	0.01	IMAC			< 0.0002		
Temephos	mg/L	0.28	IMAC			< 0.003		
Terbufos	mg/L	0.001	IMAC			< 0.0002		
Tetrachloroethylene (perchloroethylene)	mg/L	0.03	MAC	< 0.0003	< 0.0003	< 0.0003		< 0.0003
Triallate	mg/L	0.23	MAC				< 0.004	
Trichloroethene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001		< 0.0001
Trifluralin	mg/L	0.045	IMAC			< 0.000006		
Vinyl Chloride	mg/L	0.002	MAC	< 0.0002	< 0.0002	< 0.0002		< 0.0002

"<": indicates the result is below Method Detection Limit

ODWS: Ontario Drinking Water Standard

MAC: Ontario Drinking Water Standard - Health Related (Maximum Acceptable Concentration)

AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)

mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS		18/01/2010	12/04/2010	03/05/2010	17/05/2010	31/05/2010	14/06/2010
Antimony as Sb	mg/L	0.006	IMAC	0.0004	0.0002				
Arsenic as As	mg/L	0.025	IMAC	0.0003	0.0002				
Barium as Ba	mg/L	1	MAC		0.192				
Boron as B	mg/L	5	IMAC		0.043				
Cadmium as Cd	mg/L	0.005	MAC	0.0001	< 0.0001				
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001				
Fluoride as F	mg/L	1.5	MAC	0.159	0.122	0.122	0.131	0.124	0.14
Lead as Pb	mg/L	0.01	MAC	0.0001	0.0001				
Mercury as Hg	mg/L	0.001	MAC		< 0.00002				
Nitrate + Nitrite as N	mg/L	10	MAC	0.02	0.01	0.04	0.03	< 0.01	0.011
Nitrate as N	mg/L	10	MAC	0.01	0.011	0.01	0.008	0.006	0.011
Nitrite	mg/L	1	MAC	0.008	< 0.002	0.026	0.017	< 0.002	< 0.002
Selenium as Se	mg/L	0.01	MAC	0.0003	< 0.0001				
Sodium as Na	mg/L			20.3	19.4	18.9	18.9	19.3	19.2
Uranium as U	mg/L	0.02	MAC		< 0.0001				

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Organics Test Results

Reading	Units	ODWS		28/06/2010	26/07/2010	29/07/2010	09/08/2010	23/08/2010	06/09/2010
Antimony as Sb	mg/L	0.006	IMAC			0.0004			
Arsenic as As	mg/L	0.025	IMAC			0.0002			
Barium as Ba	mg/L	1	MAC						
Boron as B	mg/L	5	IMAC						
Cadmium as Cd	mg/L	0.005	MAC			< 0.0001			
Chromium as Cr	mg/L	0.05	MAC			< 0.0001			
Fluoride as F	mg/L	1.5	MAC	0.13	0.13	0.12	0.13	0.12	0.13
Lead as Pb	mg/L	0.01	MAC			0.0001			
Mercury as Hg	mg/L	0.001	MAC						
Nitrate + Nitrite as N	mg/L	10	MAC	0.005	0.009	0.03	0.014	0.006	0.016
Nitrate as N	mg/L	10	MAC	0.005	0.009	0.011	0.014	0.006	0.016
Nitrite	mg/L	1	MAC	< 0.002	< 0.005	0.019	< 0.005	< 0.005	< 0.005
Selenium as Se	mg/L	0.01	MAC			< 0.0001			
Sodium as Na	mg/L			19.2	20.4	20.3	20.4	20.4	20.2
Uranium as U	mg/L	0.02	MAC						

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 mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS		20/09/2010	11/10/2010	25/10/2010	15/12/2010	29/12/2010
Antimony as Sb	mg/L	0.006	IMAC			0.0003		
Arsenic as As	mg/L	0.025	IMAC			0.0003		
Barium as Ba	mg/L	1	MAC					
Boron as B	mg/L	5	IMAC					
Cadmium as Cd	mg/L	0.005	MAC			< 0.0001		
Chromium as Cr	mg/L	0.05	MAC			0.0008		
Fluoride as F	mg/L	1.5	MAC	0.13	0.15	0.14	0.16	0.17
Lead as Pb	mg/L	0.01	MAC			< 0.0001		
Mercury as Hg	mg/L	0.001	MAC					
Nitrate + Nitrite as N	mg/L	10	MAC	0.027	0.009	0.029	0.081	< 0.005
Nitrate as N	mg/L	10	MAC	0.008	0.009	0.008	< 0.005	< 0.005
Nitrite	mg/L	1	MAC	0.019	< 0.002	0.021	0.081	< 0.005
Selenium as Se	mg/L	0.01	MAC			0.0002		
Sodium as Na	mg/L			20.3	19.6	19.1	17.1	15.1
Uranium as U	mg/L	0.02	MAC					

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 AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)
 mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS	18/01/2010	12/04/2010	29/07/2010	11/08/2010	25/10/2010
(DDT) + Metabolites	mg/L	0.03	MAC		< 0.000008		
1,1-dichloroethylene (vinylidene chloride)	mg/L	0.014	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
2,3,4,6-Tetrachlorophenol	mg/L	0.1	MAC			< 0.0005	
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	mg/L	0.28	MAC			< 0.0005	
2,4,6-Trichlorophenol	mg/L	0.005	MAC			< 0.0005	
2,4-Dichlorophenol	mg/L	0.9	MAC			< 0.0007	
2,4-dichlorophenoxyacetic acid (2,4-D)	mg/L	0.1	IMAC			< 0.0008	
Alachlor	mg/L	0.005	IMAC			< 0.0004	
Aldicarb	mg/L	0.009	MAC				< 0.0045
Aldrin + Dieldrin	mg/L	0.0007	MAC			< 0.000006	
Atrazine + N-dealkylated metabolites	mg/L	0.005	IMAC			< 0.0002	
Azinphos-methyl	mg/L	0.02	MAC			< 0.0003	
Bendiocarb	mg/L	0.04	MAC				< 0.003
Benzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Benzo(a)pyrene	mg/L	0.00001	MAC			< 0.00001	
Bromoxynil	mg/L	0.005	IMAC			< 0.0004	
Carbaryl	mg/L	0.09	MAC				< 0.003
Carbofuran	mg/L	0.09	MAC				< 0.003
Carbon Tetrachloride	mg/L	0.005	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chlordane (Total)	mg/L	0.007	MAC			< 0.000006	
Chlorpyrifos	mg/L	0.09	MAC			< 0.0002	
Cyanazine	mg/L	0.01	IMAC			< 0.0003	
Diazinon	mg/L	0.02	MAC			< 0.0002	
Dicamba	mg/L	0.12	MAC			< 0.0004	
Dichloromethane	mg/L	0.05	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Diclofop-methyl	mg/L	0.009	MAC			< 0.0004	
Dimethoate	mg/L	0.02	IMAC			< 0.0003	
Dinoseb	mg/L	0.01	MAC			< 0.0005	
Diquat	mg/L	0.07	MAC				< 0.001
Diuron	mg/L	0.15	MAC				< 0.003
Glyphosate	mg/L	0.28	IMAC				< 0.025
Heptachlor + Heptachlor Epoxide	mg/L	0.003	MAC			< 0.000008	
Lindane	mg/L	0.004	MAC			< 0.000005	
Malathion	mg/L	0.19	MAC			< 0.0002	
Methoxychlor	mg/L	0.9	MAC			< 0.000009	
Metolachlor	mg/L	0.05	IMAC			< 0.0002	
Metribuzin	mg/L	0.08	MAC			< 0.0003	
Monochlorobenzene	mg/L	0.08	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Paraquat	mg/L	0.01	IMAC				< 0.001
Parathion	mg/L	0.05	MAC			< 0.0002	



Organics Test Results

Reading	Units	ODWS		18/01/2010	12/04/2010	29/07/2010	11/08/2010	25/10/2010
Pentachlorophenol	mg/L	0.06	MAC			< 0.0004		
Phorate	mg/L	0.002	IMAC			< 0.0002		
Picloram	mg/L	0.19	IMAC			< 0.0007		
Polychlorinated Biphenyls (PCBs)	mg/L	0.003	IMAC			< 0.00002		
Prometryne	mg/L	0.001	IMAC			< 0.0002		
Simazine	mg/L	0.01	IMAC			< 0.0002		
Temephos	mg/L	0.28	IMAC			< 0.003		
Terbufos	mg/L	0.001	IMAC			< 0.0002		
Tetrachloroethylene (perchloroethylene)	mg/L	0.03	MAC	< 0.0003	< 0.0003	< 0.0003		< 0.0003
Triallate	mg/L	0.23	MAC				< 0.004	
Trichloroethene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001		< 0.0001
Trifluralin	mg/L	0.045	IMAC			< 0.000006		
Vinyl Chloride	mg/L	0.002	MAC	< 0.0002	< 0.0002	< 0.0002		< 0.0002

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