



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260001955
Drinking-Water System Name:	Sharon/Queensville Water Supply System
Drinking-Water System Owner:	Regional Municipality of York
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2008 to December 31, 2008

<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> <div style="border: 1px solid black; padding: 5px;"> <p>Regional Municipality of York Administrative Building Transportation and Works Department 17250 Yonge Street Newmarket, Ontario</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" type="text"/></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: <input style="width: 100px; height: 20px;" type="text"/></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
Sharon Distribution System	260001747
Queensville Distribution System	260001942

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 four production wells in the community of Queensville. The wells are a major source of water for the Town of Newmarket. These wells also supply water to the residents of Queensville and Sharon. There are no production wells in Sharon.

The Queensville wells draw water from the Yonge Street Aquifer which is also the water source for the Town of Newmarket and the Town of Aurora. 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.

Chloramination (adding chlorine and ammonia) is the disinfection process used for the Sharon/Queensville 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. Fluoride is not added to the water supply.

Following treatment water enters the Sharon/Queensville distribution system from two points: wells #1 and #2 combined, and wells #3 and #4 combined. There is one storage tank servicing the community of Sharon.

York Region is the wholesale supplier of water to the communities of Sharon and Queensville and is responsible for the supply, production, treatment and storage of water. The Town of East Gwillimbury owns and operates the distribution system that delivers the water from the regional watermains to homes in Sharon and Queensville.

List all water treatment chemicals used over this reporting period

Chlorine Gas Sodium Silicate Ammonium Sulphate
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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

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	212	0	0-1		
Treated	106	0	0	106	1-5
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	0.032 – 3.458
Turbidity (Raw)	54	0.130 – 2.2
Chlorine	8760	0.760 – 3.368
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



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			

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)				
Wells #1, #2		0.014	Mg/L	
Wells #3, #4		0.02	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 #3, #4 Mg/L June 30
Bromochloroacetic acid	<0.004	<0.004
Dibromoacetic acid	<0.004	<0.004
Dichloroacetic acid	<0.004	0.005
Monobromoacetic acid	<0.004	<0.004
Monochloroacetic acid	<0.02	<0.02
Trichloroacetic acid	0.005	0.006

“<” 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)



Inorganics Test Results

Reading	Units	ODWS		21/01/2008	09/04/2008	14/07/2008	06/10/2008
Antimony as Sb	mg/L	0.006	IMAC	0.0003	0.0005	0.0005	0.0005
Arsenic as As	mg/L	0.025	IMAC	0.0005	0.0006	0.0005	0.0004
Barium as Ba	mg/L	1	MAC		0.148		
Boron as B	mg/L	5	IMAC		0.041		
Cadmium as Cd	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Fluoride as F	mg/L	0.8	MAC	0.2	0.2	0.21	0.18
Lead as Pb	mg/L	0.01	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Mercury as Hg	mg/L	0.001	MAC		< 0.00002		
Nitrate as N	mg/L	10	MAC	0.06	0.15	0.05	0.03
Nitrite	mg/L	1	MAC	< 0.01	< 0.01	0.01	0.01
Selenium as Se	mg/L	0.01	MAC	0.0002	0.0001	0.0001	< 0.0001
Sodium as Na	mg/L	200	AO	17	17.4	16.4	17.9
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	21/01/2008	09/04/2008	14/07/2008	06/10/2008
(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
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 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	< 0.0004		
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	< 0.0035		
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
Benzo(a)pyrene	mg/L	0.00001	MAC	< 0.00001		
Bromoxynil	mg/L	0.005	IMAC	< 0.0004		
Carbaryl	mg/L	0.09	MAC	< 0.0002		
Carbofuran	mg/L	0.09	MAC	< 0.004		
Carbon Tetrachloride	mg/L	0.005	MAC	< 0.0002	< 0.0002	0.0004
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
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	< 0.0001		
Diuron	mg/L	0.15	MAC	< 0.0002		
Glyphosate	mg/L	0.28	IMAC	< 0.002		
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
Paraquat	mg/L	0.01	IMAC	< 0.0001		
Parathion	mg/L	0.05	MAC	< 0.0002		



Organics Test Results

Reading	Units	ODWS		21/01/2008	09/04/2008	14/07/2008	06/10/2008
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		< 0.002		
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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Antimony as Sb	mg/L	0.006	IMAC	0.0002	0.0004	0.0003	0.0005
Arsenic as As	mg/L	0.025	IMAC	0.0006	0.0007	0.0005	0.0007
Barium as Ba	mg/L	1	MAC		0.137		
Boron as B	mg/L	5	IMAC		0.045		
Cadmium as Cd	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Fluoride as F	mg/L	0.8	MAC	0.23	0.22	0.22	0.2
Lead as Pb	mg/L	0.01	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Mercury as Hg	mg/L	0.001	MAC		< 0.00002		
Nitrate as N	mg/L	10	MAC	0.08	0.04	0.05	0.02
Nitrite	mg/L	1	MAC	0.01	< 0.01	< 0.01	0.01
Selenium as Se	mg/L	0.01	MAC	0.0001	0.0003	< 0.0001	0.0003
Sodium as Na	mg/L	200	AO	22.3	22	21.8	21.5
Uranium as U	mg/L	0.02	MAC		< 0.0001		

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1,1-dichloroethylene (vinylidene chloride)	mg/L	0.014	MAC	< 0.0003	< 0.0003	< 0.0003
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 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		< 0.0004	
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		< 0.0035	
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
Benzo(a)pyrene	mg/L	0.00001	MAC		< 0.00001	
Bromoxynil	mg/L	0.005	IMAC		< 0.0004	
Carbaryl	mg/L	0.09	MAC		< 0.0002	
Carbofuran	mg/L	0.09	MAC		< 0.004	
Carbon Tetrachloride	mg/L	0.005	MAC	< 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
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		< 0.0001	
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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
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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		< 0.002		
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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