



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220002333
Drinking-Water System Name:	Stouffville Water Supply System
Drinking-Water System Owner:	Regional Municipality of York
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 [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 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
Stouffville Distribution System	260003162

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 five production wells servicing Stouffville in the Town of Whitchurch-Stouffville. Well #1 and well #2 are located on Main Street, well #3 is located on the Tenth Line, and well #5 and well #6 are located on Highway 48 between Bethesda Side Road and Bloomington Road.

Water treatment for the Stouffville wells includes the addition of chlorine for disinfection. Sodium silicate is also added to keep the iron in suspension so it does not precipitate out and stain plumbing fixtures and laundry. Due to very low iron levels found in wells #5 and #6, sodium silicate is not added to these wells. A new UV system was installed at Stouffville Wells #5 and #6 in the spring of 2006.

Following treatment, water enters the distribution system from three points: wells #1 and #2 combined, well #3, and well #5 and well #6 combined.

There are two storage tanks and two reservoirs servicing the community of Stouffville. The Stouffville Zone 1 Elevated Tank is a new tank that was serviced in the fall of 2006 and is located on the Tenth Line and Bethesda Road. York Region also operates three booster stations. One is a small High Lift booster pumping station in Stouffville which supplies water to a number of homes in the Highway #48 / Bloomington area, Hwy 48 Booster Pumping Station was serviced in the fall of 2006 and is located on the Tenth Line near Stouffville Well #3 and Zone 1 Booster Pumping Station was serviced in 2009.

York Region is the wholesale supplier of water to the community of Stouffville in the Town of Whitchurch-Stouffville and is responsible for the supply, production, treatment and storage of water. The Town of Whitchurch-Stouffville owns and operates the distribution system that delivers the water from the regional watermains to homes in Stouffville.

List all water treatment chemicals used over this reporting period

Chlorine Gas
Sodium Hypochlorite 12%
Sodium Silicate

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.

Stouffville Zone 2 Pumping Station (Markham Reservoir Watermain) \$2,890,000

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	260	0	0-1		
Treated	156	0	0	156	1-60
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	0.002 – 2.110
Turbidity (Raw)	54	0.05 – 5.23
Chlorine	8760	0.030 – 2.713
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 Well #3 Wells #5, #6		0.021 0.003 0.015	Mg/L Mg/L 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 the Ontario Drinking Water Standards.

Haloacetic Acid	Wells #5, #6 Mg/L June 30	Well #1, #2 Mg/L June 30	Well #3 Mg/L June 30
Bromochloroacetic acid	<0.004	<0.004	<0.004
Dibromoacetic acid	<0.004	<0.004	<0.004
Dichloroacetic acid	<0.004	<0.004	<0.004
Monobromoacetic acid	<0.004	<0.004	<0.004
Monochloroacetic acid	<0.02	<0.02	<0.02
Trichloroacetic acid	<0.004	<0.004	<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)



Inorganics Test Results

Reading	Units	ODWS		12/01/2009	14/04/2009	22/07/2009	28/10/2009
Antimony as Sb	mg/L	0.006	IMAC	0.0005	0.0002	0.0003	0.0004
Arsenic as As	mg/L	0.025	IMAC	0.0005	0.0003	0.0004	0.0004
Barium as Ba	mg/L	1	MAC		0.111		
Boron as B	mg/L	5	IMAC		0.043		
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	0.16	0.16	0.188	0.162
Lead as Pb	mg/L	0.01	MAC	0.0001	< 0.0001	0.0001	0.0004
Mercury as Hg	mg/L	0.001	MAC		< 0.00002		
Nitrate + Nitrite as N	mg/L	10	MAC	0.01	0.01	0.03	0.01
Nitrate as N	mg/L	10	MAC	0.01	0.01	0.027	0.014
Nitrite	mg/L	1	MAC	< 0.01	< 0.01	< 0.002	< 0.002
Selenium as Se	mg/L	0.01	MAC	0.0006	0.0001	0.0004	0.0005
Sodium as Na	mg/L	200	AO	26	23.5	24.8	25.6
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	12/01/2009	14/04/2009	22/07/2009	28/10/2009
(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		< 0.006	
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		< 0.003	
Carbofuran	mg/L	0.09	MAC		< 0.003	
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	
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
Paraquat	mg/L	0.01	IMAC		< 0.0001	
Parathion	mg/L	0.05	MAC		< 0.0002	



Organics Test Results

Reading	Units	ODWS		12/01/2009	14/04/2009	22/07/2009	28/10/2009
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)



Inorganics Test Results

Reading	Units	ODWS		12/01/2009	14/04/2009	22/07/2009	28/10/2009
Antimony as Sb	mg/L	0.006	IMAC	0.0005	0.0002	0.0003	0.0005
Arsenic as As	mg/L	0.025	IMAC	0.0004	0.0002	0.0004	0.0003
Barium as Ba	mg/L	1	MAC		0.1		
Boron as B	mg/L	5	IMAC		< 0.009		
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	< 0.08	< 0.08	0.04	0.03
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 + Nitrite as N	mg/L	10	MAC	0.21	0.22	0.48	0.22
Nitrate as N	mg/L	10	MAC	0.21	0.22	0.48	0.22
Nitrite	mg/L	1	MAC	< 0.05	< 0.05	< 0.01	< 0.01
Selenium as Se	mg/L	0.01	MAC	0.0006	0.0001	0.0007	0.0006
Sodium as Na	mg/L	200	AO	37.5	37	37.9	38
Uranium as U	mg/L	0.02	MAC		0.0029		

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Organics Test Results

Reading	Units	ODWS	12/01/2009	14/04/2009	22/07/2009	28/10/2009
(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	< 0.006		
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	< 0.003		
Carbofuran	mg/L	0.09	MAC	< 0.003		
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		
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
Paraquat	mg/L	0.01	IMAC	< 0.0001		
Parathion	mg/L	0.05	MAC	< 0.0002		



Organics Test Results

Reading	Units	ODWS		12/01/2009	14/04/2009	22/07/2009	28/10/2009
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)



Inorganics Test Results

Reading	Units	ODWS		12/01/2009	14/04/2009	22/07/2009	28/10/2009
Antimony as Sb	mg/L	0.006	IMAC	0.0006	0.0003	0.0005	0.0007
Arsenic as As	mg/L	0.025	IMAC	0.0002	0.0002	0.0003	0.0002
Barium as Ba	mg/L	1	MAC		0.0795		
Boron as B	mg/L	5	IMAC		< 0.009		
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	< 0.04	0.04	0.03	0.026
Lead as Pb	mg/L	0.01	MAC	0.0002	0.0001	0.0002	0.0001
Mercury as Hg	mg/L	0.001	MAC		< 0.00002		
Nitrate + Nitrite as N	mg/L	10	MAC	1.88	1.88	2.48	2.04
Nitrate as N	mg/L	10	MAC	1.88	1.88	2.48	2.04
Nitrite	mg/L	1	MAC	< 0.03	< 0.03	< 0.005	< 0.005
Selenium as Se	mg/L	0.01	MAC	0.0004	0.0004	0.0008	0.0005
Sodium as Na	mg/L	200	AO	13.8	13.3	13.1	13.4
Uranium as U	mg/L	0.02	MAC		0.0023		

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(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	< 0.006		
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	< 0.003		
Carbofuran	mg/L	0.09	MAC	< 0.003		
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		
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
Paraquat	mg/L	0.01	IMAC	< 0.0001		
Parathion	mg/L	0.05	MAC	< 0.0002		



Organics Test Results

Reading	Units	ODWS		12/01/2009	14/04/2009	22/07/2009	28/10/2009
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)



Inorganics Test Results

Reading	Units	ODWS		10 Year Deep Sentry TW 2009-01-28	10 Year Deep Sentry TW 2009-08-04	10 Year Shallow Sentry TW 2009-08-05	2 Year Deep Sentry TW 2009-08-04	2 Year Shallow Sentry TW 2009-07-20	Stouffville Gravel Pit TW 2009-07-30
Antimony as Sb	mg/L	0.006	IMAC		0.0004	0.0004	0.0005	0.0003	0.0003
Arsenic as As	mg/L	0.025	IMAC		0.0002	0.0002	0.0004	0.0001	0.0001
Barium as Ba	mg/L	1	MAC		0.08	0.0488	0.396	0.0564	0.0722
Boron as B	mg/L	5	IMAC		< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Cadmium as Cd	mg/L	0.005	MAC		< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium as Cr	mg/L	0.05	MAC		< 0.0001	< 0.0001	< 0.0001	0.0004	0.0002
Fluoride as F	mg/L	0.8	MAC	< 0.04	0.035	0.03	0.024	0.028	0.02
Lead as Pb	mg/L	0.01	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002
Mercury as Hg	mg/L	0.001	MAC		0.00008	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Nitrate + Nitrite as N	mg/L	10	MAC	1.26	1.82	0.97	4.2	6.34	9.87
Nitrate as N	mg/L	10	MAC	1.26	1.82	0.968	4.2	6.34	9.87
Nitrite	mg/L	1	MAC	< 0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01
Selenium as Se	mg/L	0.01	MAC		0.0006	0.0004	0.0004	< 0.0001	0.0001
Sodium as Na	mg/L	200	AO	8.7	28.3	3.6	350	2.7	28.4
Uranium as U	mg/L	0.02	MAC		0.0004	0.0004	0.0002	0.0004	0.0003

"<": 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	10 Year Deep Sentry TW 2009-08-04	10 Year Shallow Sentry TW 2009-08-05	2 Year Deep Sentry TW 2009-08-04	2 Year Shallow Sentry TW 2009-07-20	Stouffville Gravel Pit TW 2009-07-30
(DDT) + Metabolites	mg/L	0.03	MAC	< 0.000008	< 0.000008	< 0.000008	< 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	< 0.0005	< 0.0005	< 0.0005
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	mg/L	0.28	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2,4,6-Trichlorophenol	mg/L	0.005	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005
2,4-Dichlorophenol	mg/L	0.9	MAC	< 0.0007	< 0.0007	< 0.0007	< 0.0007
2,4-dichlorophenoxyacetic acid (2,4-D)	mg/L	0.1	IMAC	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Alachlor	mg/L	0.005	IMAC	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Aldicarb	mg/L	0.009	MAC	< 0.0045	< 0.0045	< 0.0045	< 0.0045
Aldrin + Dieldrin	mg/L	0.0007	MAC	< 0.000006	< 0.000006	< 0.000006	< 0.000006
Atrazine + N-dealkylated metabolites	mg/L	0.005	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Azinphos-methyl	mg/L	0.02	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Bendiocarb	mg/L	0.04	MAC	< 0.003	< 0.003	< 0.003	< 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	< 0.00001	< 0.00001	< 0.00001
Bromoxynil	mg/L	0.005	IMAC	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Carbaryl	mg/L	0.09	MAC	< 0.003	< 0.003	< 0.003	< 0.003
Carbofuran	mg/L	0.09	MAC	< 0.003	< 0.003	< 0.003	< 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	< 0.000006	< 0.000006	< 0.000006
Chlorpyrifos	mg/L	0.09	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Cyanazine	mg/L	0.01	IMAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Diazinon	mg/L	0.02	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dicamba	mg/L	0.12	MAC	< 0.0004	< 0.0004	< 0.0004	< 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	< 0.0004	< 0.0004	< 0.0004
Dimethoate	mg/L	0.02	IMAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dinoseb	mg/L	0.01	MAC	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Diquat	mg/L	0.07	MAC	< 0.001	< 0.001	< 0.001	< 0.001
Diuron	mg/L	0.15	MAC	< 0.003	< 0.003	< 0.003	< 0.003
Glyphosate	mg/L	0.28	IMAC	< 0.025	< 0.025	< 0.025	< 0.025
Heptachlor + Heptachlor Epoxide	mg/L	0.003	MAC	< 0.000008	< 0.000008	< 0.000008	< 0.000008
Lindane	mg/L	0.004	MAC	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Malathion	mg/L	0.19	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	mg/L	0.9	MAC	< 0.000009	< 0.000009	< 0.000009	< 0.000009
Metolachlor	mg/L	0.05	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Metribuzin	mg/L	0.08	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003



Organics Test Results

Reading	Units	ODWS		10 Year Deep Sentry TW 2009-08-04	10 Year Shallow Sentry TW 2009-08-05	2 Year Deep Sentry TW 2009-08-04	2 Year Shallow Sentry TW 2009-07-20	Stouffville Gravel Pit TW 2009-07-30
Monochlorobenzene	mg/L	0.08	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Paraquat	mg/L	0.01	IMAC	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Parathion	mg/L	0.05	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Pentachlorophenol	mg/L	0.06	MAC	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Phorate	mg/L	0.002	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Picloram	mg/L	0.19	IMAC	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007
Polychlorinated Biphenyls (PCBs)	mg/L	0.003	IMAC	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Prometryne	mg/L	0.001	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Simazine	mg/L	0.01	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Temephos	mg/L	0.28	IMAC	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Terbufos	mg/L	0.001	IMAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tetrachloroethylene (perchloroethylene)	mg/L	0.03	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Triallate	mg/L	0.23	MAC	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Trichloroethene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Trifluralin	mg/L	0.045	IMAC	< 0.000006	< 0.000006	< 0.000006	< 0.000006	< 0.000006
Vinyl Chloride	mg/L	0.002	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002

"<": indicates the result is below Method Detection Limit
 ODWS: Ontario Drinking Water Standard
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 mg/L: milligrams per litre, parts permillion (ppm)