Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	**220001860**
Drinking-Water System Name:	Kingston Central Water Treatment Plant
Drinking-Water System Owner:	City of Kingston
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2004 – December 31, 2004

Complete if your Category is Large Municipal Residential or Small Municipal 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 [ ]

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

The Summary Report prepared in accordance to section 22 of O.Reg.170/03 has been given to the members of the municipal council of the City of Kingston.

Complete for all other Categories.

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve?
Yes [ ] No [ ]

Number of Interested Authorities you report to:

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

List Drinking-Water Systems, which receive all of their drinking water from your system:

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.
[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

ZEBRA MUSSEL CONTROL – When the water temperature rises above 10°C (above this temperature zebra mussels are active), pre-chlorination takes place at the mouth of the intake. This protects the intake from becoming encrusted with zebra mussels which would restrict the flow of water through the intake.
PRE-CHLORINATION – The purpose of chlorination is to provide disinfection. 12% Sodium Hypochlorite is applied to the raw water in solution form.
SCREENING – A revolving screen in the suction well of the low lift building removes any large debris such as weeds, fish, etc.
LOW LIFT PUMPS – These pumps lift the water from lake level to the main plant. There are two headers from the low lift building directing the water to the mixing tanks.
COAGULATION\FLOCCULATION – Aluminum Sulphate (alum) is added to the water as it leaves the low lift building at a rate of 10 mg/l. Particles in the water are attracted to the alum.
MIXING TANKS – Water flows rapidly in these tanks in a spiral motion, allowing proper mixing of the chlorine and alum with the water.
SETTLING TANKS – These are large tanks designed to reduce the velocity of the water allowing the heavier floc particles to settle out. They also provide detention time, allowing the chlorine time to achieve disinfection.
FILTERS – Six Granular Activated Carbon (GAC) rapid sand filters remove the particles which did not settle out in the settling tanks as well as compounds which cause taste & odours. Water flows through the filters to a clean water reservoir called the clearwell.
BACKWASHING – Filters are washed daily to remove any particulates they have collected over the previous 24 hrs. Cleaned water from the clearwell is pumped backwards through the filter and the top layer of the filter is agitated during the backwash by spraying water on to it to break up any large particles.
POST-CHLORINATION – Sodium Hypochlorite is added to the water as it enters the clearwell to provide a 'chlorine residual' which remains throughout the distribution system. This ensures protection to the point of the customers tap.
HIGHLIFT PUMPS – Five high lift pumps with capacities ranging from 19,500 to 45,500 m^3/day pump treated water from the clearwell into the distribution system.
STANDBY EQUIPMENT – Diesel driven pumps are maintained to provide a continuous supply of water during power failures. These pumps provide enough capacity to meet fire-fighting requirements as well as normal flows during power outages. A diesel generator provides electricity to run metering and lighting in the water plant.
RESERVOIR AND PUMPING STATION – Located at Third Ave, this reservoir has a capacity of 22,700 m^3. Water is pumped into this reservoir during the night, and out during the day.
JAMES ST. BOOSTER STATION – This station pumps water into the distribution system east of the Cataraqui River. Fluoride is added as a requirement of DND Kingston. As well, sodium hypochlorite is added to ensure adequate residuals in this part of the system. The city east system has three elevated tanks for storage.
ELEVATED TANK – With a capacity of 3400m^3, the elevated tank's main purpose is to provide system pressure and to act as a buffer to pressure fluctuations.
DISTRIBUTION SYSTEM – Approximately 80,000 people are supplied with water from the Kingston Central Water Treatment Plant. There are approximately 250 km of water mains, and over 1200 fire hydrants in the system.

List all water treatment chemicals used over this reporting period

Aluminum Sulphate, Sodium Hypochlorite, Hydrofluorosilicic acid (Kingston East Only)

Were any significant expenses incurred to?

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

Describe

Repaired impellers and replaced bearings on Highlifts # 3 & 5.
Installed two new peristaltic pumps, associated piping and controls on sodium hypochlorite feed system.
Installed two new pumps, associated piping and controls on Aluminum Sulphate feed system.
Upgrades to building windows and doors to increase security.
Installation of new process monitoring equipment.
Commenced construction on new backwash wastewater treatment system.

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
2/23/2004	A malfunction of a disinfectant pump resulted in a failure to meet condition 1.4 of the CoA for this plant, specifically that a minimum free residual of 1.4 mg/l be maintained in treated water <5^{o}C.	n/a	n/a	One hundred percent of the required contact time (a measure of disinfection effectiveness) required for the treatment plant was maintained during this time. Due to the pump malfunction, the free chlorine residual in treated water fell below 1.40 mg/l from 05:46 to 06:42 with a minimum residual of 1.07 mg/l. Standby equipment was put into operation to restore disinfection, and chlorine residuals returned to greater than 1.40 mg/l. The malfunctioned pump was repaired and returned to service.	2/23/2004
6/14/2004	The post filter chlorine residual dropped to 0.98 mg/l, resulted in a failure to meet condition 1.4 of the CoA for this plant, specifically that a minimum free residual of 1.1 mg/l be maintained in treated water 5 - 10^{o}C.	n/a	n/a	One hundred percent of the required contact time (a measure of disinfection effectiveness) required for the treatment plant was maintained during this time. A plugged diffuser was found to cause the disinfectant problem. The diffuser was removed and had undergone repairs. The chlorine diffuser system has since been upgraded to prevent any further problems.	6/15/2004

11/15/2004	Total Coliform	Present	n/a	Notifications were made to SAC and the local MOH. Re-sampling was initiated in accordance to O.Reg.170/03 for corrective actions. Subsequent re-samples did not indicate any adverse conditions.	11/16/2004

Microbiological testing done under section 8-2 during this reporting period

	Number of Samples	Range of E.Coli Or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples Or Background Colony Counts	Range of HPC Results (#-#) Or Background Colony Counts
Raw	167	0 - 46	0 - 131		
Treated	279	0	0	271	0 - 80
Distribution	1112	0	0-1	582	0 - 110

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	0.025 – 0.117 NTU
Chlorine (Treated & James St Booster Stn.)	8760	0.98 – 2.65 mg/l
Chlorine Residual Distribution System	8760	0.06 – 2.18 mg/l
Fluoride (City East Only) Fluoridation provided	8760	0.11 – 0.86 mg/l

***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 or order.

Date of order or C of A	Sample Type	Parameter	Date Sampled	Result	Unit of Measure
January 7, 2003	Backwash Effluent	Suspended Solids	1/19/2004	180	mg/l
December 19, 2003	Treated Water	Nitrosodimethylamine (NDMA)	1/19/2004	0.0009	ug/l
December 19, 2003	Distribution Water	Nitrosodimethylamine (NDMA)	1/19/2004	0.0005	ug/l
January 7, 2003	Backwash Effluent	Suspended Solids	2/9/2004	110	mg/l

January 7, 2003	Backwash Effluent	Suspended Solids	3/22/2004	170	mg/l
January 7, 2003	Backwash Effluent	Suspended Solids	4/15/2004	70	mg/l
December 19, 2003	Treated Water	Nitrosodimethylamine (NDMA)	4/28/2004	<0.0008	ug/l
December 19, 2003	Distribution Water	Nitrosodimethylamine (NDMA)	4/28/2004	<0.0008	ug/l
January 7, 2003	Backwash Effluent	Suspended Solids	5/12/2004	100	mg/l
January 7, 2003	Backwash Effluent	Suspended Solids	6/11/2004	50	mg/l
January 7, 2003	Backwash Effluent	Suspended Solids	7/5/2004	40	mg/l
December 19, 2003	Treated Water	Nitrosodimethylamine (NDMA)	7/5/2004	<0.0008	ug/l
December 19, 2003	Distribution Water	Nitrosodimethylamine (NDMA)	7/5/2004	0.0009	ug/l
January 7, 2003	Backwash Effluent	Suspended Solids	8/12/2004	80	mg/l
January 7, 2003	Backwash Effluent	Suspended Solids	9/13/2004	132	mg/l
January 7, 2003	Backwash Effluent	Suspended Solids	10/12/2004	41	mg/l
December 19, 2003	Treated Water	Nitrosodimethylamine (NDMA)	10/12/2004	0.0014	ug/l
December 19, 2003	Distribution Water	Nitrosodimethylamine (NDMA)	10/12/2004	0.0012	ug/l
January 7, 2003	Backwash Effluent	Suspended Solids	11/10/2004	33	mg/l
January 7, 2003	Backwash Effluent	Suspended Solids	12/8/2004	92	mg/l

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	1/19/2004	<0.001	mg/l	No
Arsenic	1/19/2004	<0.001	mg/l	No
Barium	1/19/2004	0.022	mg/l	No
Boron	1/19/2004	0.020	mg/l	No
Cadmium	1/19/2004	0.0001	mg/l	No
Chromium	1/19/2004	<0.001	mg/l	No
Lead (Ditribution)	1/19/2004	<0.0002	mg/l	No
Mercury	1/19/2004	<0.0001	mg/l	No
Selenium	1/19/2004	0.001	mg/l	No
Sodium	1/19/2004	12.9	mg/l	No
Uranium	1/19/2004	0.0026	mg/l	No
Fluoride	1/19/2004	<0.1	mg/l	No
Nitrite	1/19/2004	<0.1	mg/l	No
Nitrate	1/19/2004	0.3	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Sodium	2/9/2004	14	mg/l	No
Nitrite	2/9/2004	<0.1	mg/l	No
Nitrate	2/9/2004	0.4	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Sodium	3/22/2004	14	mg/l	No
Nitrite	3/22/2004	<0.1	mg/l	No
Nitrate	3/22/2004	0.4	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Fluoride	4/15/2004	0.2	mg/l	No
Nitrite	4/15/2004	<0.1	mg/l	No
Nitrate	4/15/2004	0.5	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Nitrite	5/12/2004	<0.1	mg/l	No
Nitrate	5/12/2004	0.4	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Nitrite	6/11/2004	<0.1	mg/l	No
Nitrate	6/11/2004	0.4	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	7/5/2004	<0.001	mg/l	No
Arsenic	7/5/2004	<0.001	mg/l	No
Barium	7/5/2004	0.023	mg/l	No
Boron	7/5/2004	0.027	mg/l	No
Cadmium	7/5/2004	<0.0001	mg/l	No
Chromium	7/5/2004	<0.001	mg/l	No
Lead (Ditribution)	7/5/2004	<0.0002	mg/l	No
Mercury	7/5/2004	<0.0001	mg/l	No
Selenium	7/5/2004	<0.001	mg/l	No
Sodium	7/5/2004	13.3	mg/l	No
Uranium	7/5/2004	0.0002	mg/l	No
Fluoride	7/5/2004	<0.1	mg/l	No
Nitrite	7/5/2004	<0.1	mg/l	No
Nitrate	7/5/2004	0.4	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Nitrite	8/11/2004	<0.1	mg/l	No
Nitrate	8/11/2004	0.4	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	9/13/2004	<0.001	mg/l	No
Arsenic	9/13/2004	<0.001	mg/l	No
Barium	9/13/2004	0.024	mg/l	No
Boron	9/13/2004	0.024	mg/l	No
Cadmium	9/13/2004	<0.0001	mg/l	No
Chromium	9/13/2004	<0.001	mg/l	No
Mercury	9/13/2004	<0.0001	mg/l	No
Selenium	9/13/2004	<0.001	mg/l	No
Uranium	9/13/2004	0.0001	mg/l	No
Nitrite	9/13/2004	<0.05	mg/l	No
Nitrate	9/13/2004	0.31	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Fluoride	10/12/2004	<0.1	mg/l	No
Sodium	10/12/2004	12.3	mg/l	No
Nitrite	10/12/2004	<0.05	mg/l	No
Nitrate	10/12/2004	0.26	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Sodium	11/10/2004	14.2	mg/l	No
Nitrite	11/10/2004	<0.1	mg/l	No
Nitrate	11/10/2004	0.4	mg/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Sodium	3/22/2004	13.7	mg/l	No
Nitrite	3/22/2004	<0.05	mg/l	No
Nitrate	3/22/2004	0.35	mg/l	No

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	1/19/2004	<0.5	ug/l	No
Aldicarb	1/19/2004	<3	ug/l	No
Aldrin + Dieldrin	1/19/2004	<1	ug/l	No
Atrazine + N-dealkylated metobolites	1/19/2004	<1	ug/l	No
Azinphos-methyl	1/19/2004	<2	ug/l	No
Bendiocarb	1/19/2004	<5	ug/l	No
Benzene	1/19/2004	<0.5	ug/l	No
Benzo(a)pyrene	1/19/2004	<0.005	ug/l	No
Bromoxynil	1/19/2004	<0.094	ug/l	No
Carbaryl	1/19/2004	<5	ug/l	No
Carbofuran	1/19/2004	<2	ug/l	No
Carbon Tetrachloride	1/19/2004	<0.2	ug/l	No
Chlordane (Total)	1/19/2004	<0.11	ug/l	No
Chlorpyrifos	1/19/2004	<1	ug/l	No
Cyanazine	1/19/2004	<1	ug/l	No
Diazinon	1/19/2004	<2	ug/l	No
Dicamba	1/19/2004	<10	ug/l	No
1,2-Dichlorobenzene	1/19/2004	<0.1	ug/l	No
1,4-Dichlorobenzene	1/19/2004	<0.2	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	1/19/2004	<1	ug/l	No
1,2-Dichloroethane	1/19/2004	<0.1	ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	1/19/2004	<0.1	ug/l	No
Dichloromethane	1/19/2004	<0.3	ug/l	No
2-4 Dichlorophenol	1/19/2004	<0.2	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	1/19/2004	<1	ug/l	No
Diclofop-methyl	1/19/2004	<0.9	ug/l	No
Dimethoate	1/19/2004	<2	ug/l	No
Dinoseb	1/19/2004	<1	ug/l	No
Diquat	1/19/2004	<5	ug/l	No
Diuron	1/19/2004	<10	ug/l	No
Glyphosate	1/19/2004	<25	ug/l	No
Heptachlor + Heptachlor Epoxide	1/19/2004	<0.1	ug/l	No
Linadane (Total)	1/19/2004	<0.10	ug/l	No
Malathion	1/19/2004	<10	ug/l	No

Methoxychlor	1/19/2004	<10	ug/l	No
Metolachlor	1/19/2004	<5	ug/l	No
Metribuzin	1/19/2004	<0.12	ug/l	No
Monochlorobenzene	1/19/2004	<0.2	ug/l	No
Paraquat	1/19/2004	<1	ug/l	No
Parathion	1/19/2004	<5	ug/l	No
Pentachlorophenol	1/19/2004	<0.2	ug/l	No
Phorate	1/19/2004	<0.5	ug/l	No
Picloram	1/19/2004	<10	ug/l	No
Polychlorinated Biphenyls(PCB)	1/19/2004	<1	ug/l	No
Prometryne	1/19/2004	<0.2	ug/l	No
Simazine	1/19/2004	<0.15	ug/l	No
THM (Treated Water) (NOTE: show latest annual average)	1/19/2004	11.5	ug/l	No
THM (Distribution Water) (NOTE: show latest annual average)	1/19/2004	34.5	ug/l	No
Temephos	1/19/2004	<25	ug/l	No
Terbufos	1/19/2004	<0.35	ug/l	No
Tetrachloroethylene	1/19/2004	<0.2	ug/l	No
2,3,4,6-Tetrachlorophenol	1/19/2004	<0.14	ug/l	No
Triallate	1/19/2004	<20	ug/l	No
Trichloroethylene	1/19/2004	<0.1	ug/l	No
2,4,6-Trichlorophenol	1/19/2004	<0.2	ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	1/19/2004	<22	ug/l	No
Trifluralin	1/19/2004	<1	ug/l	No
Vinyl Chloride	1/19/2004	<0.3	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	2/13/2004	11.4	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	3/22/2004	11.4	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	4/15/2004	11.6	ug/l	No
THM (Distribution Water) (NOTE: show latest annual average)	4/15/2004	34.4	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	5/12/2004	11.4	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	6/11/2004	11.6	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	7/5/2004	<0.3	ug/l	No
Aldicarb	7/5/2004	<3	ug/l	No
Aldrin + Dieldrin	7/5/2004	<0.2	ug/l	No
Atrazine + N-dealkylated metobolites	7/5/2004	<0.5	ug/l	No
Azinphos-methyl	7/5/2004	<1	ug/l	No
Bendiocarb	7/5/2004	<3	ug/l	No
Benzene	7/5/2004	<0.5	ug/l	No
Benzo(a)pyrene	7/5/2004	<0.005	ug/l	No
Bromoxynil	7/5/2004	<0.094	ug/l	No
Carbaryl	7/5/2004	<3	ug/l	No
Carbofuran	7/5/2004	<1	ug/l	No
Carbon Tetrachloride	7/5/2004	<0.2	ug/l	No
Chlordane (Total)	7/5/2004	<0.4	ug/l	No
Chlorpyrifos	7/5/2004	<0.5	ug/l	No
Cyanazine	7/5/2004	<0.5	ug/l	No
Diazinon	7/5/2004	<1	ug/l	No
Dicamba	7/5/2004	<5	ug/l	No
1,2-Dichlorobenzene	7/5/2004	<0.1	ug/l	No
1,4-Dichlorobenzene	7/5/2004	<0.2	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	7/5/2004	<0.1	ug/l	No
1,2-Dichloroethane	7/5/2004	<0.1	ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	7/5/2004	<0.1	ug/l	No
Dichloromethane	7/5/2004	<0.3	ug/l	No
2-4 Dichlorophenol	7/5/2004	<0.1	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	7/5/2004	<5	ug/l	No
Diclofop-methyl	7/5/2004	<0.4	ug/l	No
Dimethoate	7/5/2004	<1	ug/l	No
Dinoseb	7/5/2004	<0.5	ug/l	No
Diquat	7/5/2004	<5	ug/l	No
Diuron	7/5/2004	<5	ug/l	No
Glyphosate	7/5/2004	<25	ug/l	No
Heptachlor + Heptachlor Epoxide	7/5/2004	<0.1	ug/l	No
Linadane (Total)	7/5/2004	<0.1	ug/l	No
Malathion	7/5/2004	<5	ug/l	No
Methoxychlor	7/5/2004	<0.1	ug/l	No
Metolachlor	7/5/2004	<3	ug/l	No
Metribuzin	7/5/2004	<3	ug/l	No
Monochlorobenzene	7/5/2004	<0.2	ug/l	No
Paraquat	7/5/2004	<1	ug/l	No
Parathion	7/5/2004	<3	ug/l	No
Pentachlorophenol	7/5/2004	<0.1	ug/l	No
Phorate	7/5/2004	<0.3	ug/l	No
Picloram	7/5/2004	<5	ug/l	No

Polychlorinated Biphenyls(PCB)	7/5/2004	<0.05	ug/l	No
Prometryne	7/5/2004	<0.1	ug/l	No
Simazine	7/5/2004	<0.50	ug/l	No
THM (Treated Water) (NOTE: show latest annual average)	7/5/2004	11.5	ug/l	No
THM (Distribution Water) (NOTE: show latest annual average)	7/5/2004	25.5	ug/l	No
Temephos	7/5/2004	<13	ug/l	No
Terbufos	7/5/2004	<0.3	ug/l	No
Tetrachloroethylene	7/5/2004	<0.2	ug/l	No
2,3,4,6-Tetrachlorophenol	7/5/2004	<0.14	ug/l	No
Triallate	7/5/2004	<10	ug/l	No
Trichloroethylene	7/5/2004	<0.1	ug/l	No
2,4,6-Trichlorophenol	7/5/2004	<0.1	ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	7/5/2004	<11	ug/l	No
Trifluralin	7/5/2004	<0.5	ug/l	No
Vinyl Chloride	7/5/2004	<0.2	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	8/11/2004	11.3	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	9/13/2004	<0.3	ug/l	No
Aldicarb	9/13/2004	<3	ug/l	No
Aldrin + Dieldrin	9/13/2004	<0.2	ug/l	No
Atrazine + N-dealkylated metobolites	9/13/2004	<0.5	ug/l	No
Azinphos-methyl	9/13/2004	<1	ug/l	No
Bendiocarb	9/13/2004	<3	ug/l	No
Benzene	9/13/2004	<0.5	ug/l	No
Benzo(a)pyrene	9/13/2004	<0.005	ug/l	No
Bromoxynil	9/13/2004	<0.094	ug/l	No
Carbaryl	9/13/2004	<3	ug/l	No
Carbofuran	9/13/2004	<1	ug/l	No
Carbon Tetrachloride	9/13/2004	<0.2	ug/l	No
Chlordane (Total)	9/13/2004	<0.4	ug/l	No
Chlorpyrifos	9/13/2004	<0.5	ug/l	No
Cyanazine	9/13/2004	<0.5	ug/l	No
Diazinon	9/13/2004	<1	ug/l	No
Dicamba	9/13/2004	<5	ug/l	No
1,2-Dichlorobenzene	9/13/2004	<0.1	ug/l	No
1,4-Dichlorobenzene	9/13/2004	<0.2	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	9/13/2004	<0.1	ug/l	No
1,2-Dichloroethane	9/13/2004	<0.1	ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	9/13/2004	<0.1	ug/l	No
Dichloromethane	9/13/2004	<0.3	ug/l	No
2-4 Dichlorophenol	9/13/2004	<0.1	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	9/13/2004	<5	ug/l	No

Diclofop-methyl	9/13/2004	<0.4	ug/l	No
Dimethoate	9/13/2004	<1	ug/l	No
Dinoseb	9/13/2004	<0.5	ug/l	No
Diquat	9/13/2004	<5	ug/l	No
Diuron	9/13/2004	<5	ug/l	No
Glyphosate	9/13/2004	<25	ug/l	No
Heptachlor + Heptachlor Epoxide	9/13/2004	<0.1	ug/l	No
Linadane (Total)	9/13/2004	<0.1	ug/l	No
Malathion	9/13/2004	<5	ug/l	No
Methoxychlor	9/13/2004	<0.1	ug/l	No
Metolachlor	9/13/2004	<3	ug/l	No
Metribuzin	9/13/2004	<3	ug/l	No
Monochlorobenzene	9/13/2004	<0.2	ug/l	No
Paraquat	9/13/2004	<1	ug/l	No
Parathion	9/13/2004	<3	ug/l	No
Pentachlorophenol	9/13/2004	<0.1	ug/l	No
Phorate	9/13/2004	<0.3	ug/l	No
Picloram	9/13/2004	<5	ug/l	No
Polychlorinated Biphenyls(PCB)	9/13/2004	<0.05	ug/l	No
Prometryne	9/13/2004	<0.1	ug/l	No
Simazine	9/13/2004	<0.50	ug/l	No
THM (Treated Water) (NOTE: show latest annual average)	9/13/2004	12.5	ug/l	No
Temephos	9/13/2004	<13	ug/l	No
Terbufos	9/13/2004	<0.3	ug/l	No
Tetrachloroethylene	9/13/2004	<0.2	ug/l	No
2,3,4,6-Tetrachlorophenol	9/13/2004	<0.14	ug/l	No
Triallate	9/13/2004	<10	ug/l	No
Trichloroethylene	9/13/2004	<0.1	ug/l	No
2,4,6-Trichlorophenol	9/13/2004	<0.1	ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	9/13/2004	<11	ug/l	No
Trifluralin	9/13/2004	<0.5	ug/l	No
Vinyl Chloride	9/13/2004	<0.2	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	10/12/2004	12.8	ug/l	No
THM (Distribution Water) (NOTE: show latest annual average)	10/12/2004	26.3	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	11/10/2004	12.7	ug/l	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Treated Water) (NOTE: show latest annual average)	12/8/2004	12.6	ug/l	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

(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)