

O. Reg. 170 SECTION 11 ANNUAL REPORT
**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	220000460
Drinking-Water System Name:	North Bay WTP
Drinking-Water System Owner:	City of North Bay
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 01, 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 <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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; margin-top: 10px;"> <p>The Corporation of the City of North Bay P.O. Box 360 200 McIntyre Street East North Bay, Ontario P1B 8H8</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input 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 <input type="checkbox"/> No <input type="checkbox"/></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, which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
NA	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?
Yes No

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
 Public access/notice via Government Office
 Public access/notice via a newspaper
 Public access/notice via Public Request
 Public access/notice via a Public Library
 Public access/notice via other method Noted on Utility billing.

Describe your Drinking-Water System

The North Bay Water Treatment Plant is a pumping station which partially treats water from Trout Lake which is part of the Mattawa River watershed. It was originally placed in service in 1929. The process consists of pH adjustment (Sodium Hydroxide), fluoridation (Hydrofluorosilicic Acid) and disinfection (Sodium Hypochlorite). The chemical treatment facilities are housed in a separate building completed in 1984.

The Permit to Take Water permits consumption up to 79,500 cubic meters per day. The North Bay Water Treatment Plant serves a population of approximately 56,000. There is a 12 kW standby diesel gen set at the plant to power emergency lighting and the chemical feed pumps. There is also a 1000 kW portable gen set with a manual switch over to provide partial standby power to the facility during power outages.

The intake structure is a 1200 mm diameter series 45 polyethylene pipe, with the capacity of 80,000 m³/day, which extends approximately 300 meters into Delaney Bay of Trout Lake. The intake was constructed in 1973 and includes an intake crib in approximately 21.5 meters of water at low water level. The intake has a 90 degree elbow terminating with fiber reinforced plastic (FRP) cage. At the shore the polyethylene pipe connects to a concrete pressure pipe which runs to an intake chamber and then a junction chamber. The intake then discharges into a 1.8 m by 1.35 m high reinforced concrete channel to the screen area located inside the pumping station. The North Bay WTP is also equipped with another intake pipe and structure described as follows: a 900 mm iron intake (not in service) extending 122 m into Delaney Bay of Trout Lake at a depth of 7.6 meters meters off the lake bottom with a capacity of 50,000 m³/day.

Raw water is fed through the WTP without the aid of a low lift pumping station. Raw water is chlorinated at the intake structure. Water then enters the plant and passes through two stainless steel 6 mm mesh FRP framed screens in series followed immediately by the fluoride application point. The sodium hydroxide addition point for pH adjustment is also made at the screen well. The plant is also equipped with a 100 m³ wet well and four electrically driven high lift pumps, operating at the rated head of 83.8 m, with a firm capacity of 79,500 m³/d (with the largest pump - pump #3- out of service). The suction connections for each high lift pump are connected

directly to the wet well. The water is also disinfected with the aid of ultraviolet disinfection units, located at the discharge of each high lift pump before being directed into the distribution system.

The treated water is pumped to the distribution system, which incorporates the following storage and pumping facilities:

The Canadian Forces Base (CFB) Reservoir and Re-chlorination Facility is an 1820 m³ capacity reservoir equipped with a sodium hypochlorite re-chlorination system. The facility is also comprised of an on-line, continuous water quality analyzer for free chlorine and a standby gen set added in 2007 to provide emergency power during power outages.

The Birches Road Standpipe and Re-chlorination Station is an 11,775 m³ capacity steel un-baffled treated water standpipe equipped with a sodium hypochlorite re-chlorination system. The facility is also comprised of an on-line, continuous water quality analyzers for free chlorine and turbidity, a fixed 7.5 kW, 120/240 Volt, single phase, diesel powered gen set to power the standpipe systems and communications during prolonged power outages.

The Judge Avenue Valve Chamber and Re-chlorination Station is equipped with a sodium hypochlorite re-chlorination system. The facility is also comprised of an on-line, continuous water quality analyzers for free chlorine and turbidity, a fixed 7.5 kW, 120/240 Volt, single phase, diesel powered gen set to power the re-chlorination and SCADA communications during prolonged power outages.

The Ellendale Reservoir (also known as the High Lift Pumping Station) is a double cell 18,200 m³ capacity reservoir equipped with a sodium hypochlorite re-chlorination system. The facility is also has on-line continuous water quality analyzers for free chlorine and turbidity and a standby gen set to operate the entire facility during power outages.

The Canadore Pumping Station is a facility equipped with high lift pumps and pressurized cushion tanks maintain to pressure in a pressurized zone of the distribution system servicing Canadore College and Nipissing University. There is an on-line continuous water quality analyzer to monitor free chlorine residual and a 200 kW, 347/600 Volt, 3 phase, diesel powered gen set to provide power and SCADA communications during prolonged power outages

Although the North Bay WTP draws water from a surface water source and currently only provides disinfection with Sodium Hypochlorite and UV, the owner has been granted regulatory relief to install chemically assisted filtration, or equivalent. Subject to Section 9.1 of the C of A, the owner is not required to comply with the provisions listed in Schedule 1 of Ontario Regulation 170/03 until July 31, 2009. Construction of a new membrane filtration water plant is nearing completion.

List all water treatment chemicals used over this reporting period

Sodium Hydroxide
Sodium Hypochlorite
Hydrofluosilicic Acid

Were any significant expenses incurred to?

- Install required equipment
 Repair required equipment
 Replace required equipment

Describe

- Installed control valve on by-pass line at Judge Valve Station
- Bulk Sodium Hypochlorite storage tank #2 was replaced at Trout Lake Pumping Station
- The sodium hypochlorite feed pumps at TLPS were both overhauled
- Replace fittings and control valves on #3 high lift pump discharge valve at TLPS
- Repair leaks on NaOH storage tank at TLPS
- Replaced secondary containment for NaOH storage tank at TLPS
- The boiler at Trout Lake Pumping Station was overhauled
- Major repair of the loading dock roll-up door on chemical building at TLPS
- New ventilation installed at the chemical building at the Trout Lake Pumping Station
- Installed new duplex sump pumps in new Judge's Road valve chamber
- Installed VFD at Ellendale Reservoir Pumping Station on pump # 2
- Repair Rotork valve actuator controls on pump #3 at Ellendale Reservoir Pumping Stn
- Replace discharge valve on pump#3 at Ellendale Reservoir Pumping Station
- Repaired heaters at Ellendale Reservoir Pumping Station
- Repair leaking roof at Ellendale Reservoir Pumping Station
- Pressure modulating valve and controls installed on fire pump at Canadore Pumping Station
- Added standby PRV on discharge line at Canadore Pumping Station
- Installed new pressure control valve on CFB Fire Pump
- Replace flow meter for CFB pump station duty pumps
- New backup critical monitoring alarms were installed at Ellendale & CFB Reservoir PS's
- Replaced secondary containment area wall for Sodium Hypochlorite storage tank at the Birches Road Standpipe Reservoir building
- Construction on an elevated water storage reservoir near the Airport began
- Replace blow off valve with 2"PRV (Bain st)
- Replace pilot valve on PRV (Bain st)
- New water main on Airport Road (Carmichael Dr. to Airport Way)
- Started water main loop-in at Carmichael Dr. from Airport Rd to Littledown Lane
- Replaced water main on Algonquin Ave (Copeland to High) & Front St (Murray to First Ave)

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- Replacement of the watermain on Oak Street (Wyld to Fraser)
- Replacement of the watermain at Jane Street and Eloy Road; College Dr and Gormanville Rd in order to accommodate the North Bay Regional Health Centre
- Loop-in and extension of water mains at John St. and Second Ave East.
- Replacement of water main on Wyld St from Second Ave to Third Ave.
- Installation of new water main from Front St. along Second Ave. W
- Replace sump pump in chamber (Lakeview)
- Replace sump pump in chamber (Surrey)
- Replace pilot valve in chamber (HLPS)

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
4-Mar-2008	Pump/UV Failure Low UV Dose Low Giardia & Crypto log removal	< 40	mJ/cm ²	The valve on #2 pump exceeded 2 minutes to close (2 min 26 sec) on failure of the UV reactor causing log removal for Crypto & Giardia to be < than required. The lead pump/UV was switched from pump #2 to pump #3. AWQI # 78197	4-Mar-2008
5-Mar-2008	Low UV Dose Low Giardia & Crypto log removal	< 40	mJ/cm ²	The #2 UV reactor tripped the low dosage alarm at 00:52 and the #3 reactor tripped the alarm at 02:30. The #2 reactor's # 8 sensor sleeve was replaced and the # 3 reactor's # 7 sensor sleeve was replaced. AWQI # 78220	5-Mar-2008
24-Mar-2008	Low UV Dose Low Giardia & Crypto log removal	< 40	mJ/cm ²	The valve on pump took 2 minutes 38 seconds to close causing log removal for Crypto & Giardia to be < required. The plant was restarted with alternate drive. New sensor sleeves were installed. Lead drive was monitored and ran okay all day. AWQI # 78472	25-Mar-2008
07 May 2008	Low UV Dose Low Giardia & Crypto log removal	< 40	mJ/cm ²	#3 Pump and UV, on shut down, took 2 minutes and 30 seconds causing Giardia and crypto alarms. # 3 pump lag, #2 drive is lead. UV intensities were re-confirmed. AWQI # 79120	12-May-08
10-May-2008	Low UV Dose Low Giardia & Crypto log removal	< 40	mJ/cm ²	#3 reactor/pump failed resulting in a UV dosage below 40 mj/cm ² . Giardia and crypto log removal level went below the requirement for 1 minute and 37 seconds until the valve closed. #3 pump/reactor was reset and	10-May-2008

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				switched to large lag pump. AWQI # 78197	
27-May-2008	Chlorine residual	0.14	mg/L	Chlorine residual was 0.14 mg/L at start-up 04:23 hr. The virus alarm same time as start-up and #4 pump and UV system. Low dosage for 1 min 37 sec. Chlorine spiked in clear wells prior. The chlorine residual did not drop below 0.14mg/L. AWQI # 70506	27-May-08
2-Jun-2008	Chlorine residual	0.14	mg/L	Chlorine was 0.14 mg/l. The clear wells were chlorinated prior to start-up. Virus removal adverse for 2 min 1 sec. The treated chlorine residual was increased to a Free Cl ₂ residual of 1.99 mg/L the adverse condition cleared. AWQI # 79601	2-Jun-2008
2-Jun-2008	Power failure			The power failed and all pumps and UV reactors stopped from 14:50 to 15:00 hours. The power was restored at 15:00 and the pumps were re-started. The trends were reviewed. AWQI # 79618	2-Jun-2008
17-Jun-2008	UV Dosage	< 40	mJ/cm ²	The number 3 pump drive failed Giardia log reduction low. Work being performed on D.P cell. Related pump failure to work being done. Re-started water plant with # 2 drive as lead. AWQI # 79915	17-Jun-2008
23-Jun-2008	Power Failure Low UV Dose Low Giardia log removal	< 40	mJ/cm ²	Thunder storm caused a power failure. Giardia log reduction was adverse for 2 min 31 secs. Pump #2 failed 13:52 hours. Plant restarted when power restored. AWQI # 80070	23-Jun-2008
24-Jun-2008	Low Virus log removal Low UV Dose	< 4 < 40	log mJ/cm ²	Power failure caused event, TLPS vital reduction below 4.0 low UV dose. Alarms were acknowledged and reset. Re-started plant after power restored. Power failure shut down system. AWQI # 80111	24-Jun-2008
8-Jul-2008	Low UV Dose	< 40	mJ/cm ²	Pump #2 failed due to low UV dose. UV reactor wiper position fault active and may have interfered with UV intensity sensor reading. Removed front of reactor unit and manually moved the wiper to the home position. Wiper mechanism found to be faulty and was replaced. Lowest chlorine level during event 1.15mg/L free. AWQI# 80657	8-Jul-2008
10-Jul-2008	Chlorine	0.1	mg/L	Low chlorine alarm @ 02:20 hours. Raw water chlorine residual 0.6mg/L and treated free chlorine residual of 0.1mg/L. Spiked clear wells with	10-Jul-2008

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				chlorine. Started plant and checked chlorine injection system, All normal. AWQI# 80746	
6-Aug-2008	Power Failure Low UV Dose Low Giardia & Crypto log removal	< std	log removal	Power Bumps due to thunder storm. Pumps # 2 and # 4 pumps were shut down. Pumps # 2 and # 4 pumps were reset and re-started once the thunderstorm cleared. No adverse conditions. Chlorine residual was good thru-out power bumps lowest chlorine free 0.96 mg/L 15:56 pm and highest of Chlorine free 2.0 mg/L at 18:44. AWQI # 82252	6-Aug-2008
8-Aug-2008	Low Chlorine	0.16	mg/L	Virus log removal under the provincial std for 4 minutes 9 sec. Lowest treated free chlorine residual of 0.16 mg/L. Chlorine pump # 1 loss prime. Flushed chlorine pump discharge tubing and put back on line 16:45 hrs. AWQI # 82401	8-Aug-2008
14-Aug-08	Low Chlorine Low UV Dose Low Giardia & Crypto log removal	0.1	mg/L	Low Chlorine alarm at 17:36, at 17:37 virus adverse alarm for 6 minutes 34 seconds. Crypto & Giardia log removals adverse for 38 & 34 seconds respectively. Lowest chlorine residual reading 0.1 mg/L. Switched to #2 chlorine pump, maintenance to #1 chlorine pump. #4 pump on ran for 15 minutes then started #3 pump to prevent low dosage alarms. TLPS pumps/reactors back on-line, #2 pump maintenance. AWQI #82711	15-Aug-08
3-Sep-2008	Chlorine	0.1	mg/L	Sodium Hypochlorite injection carrier water supply interrupted. Chlorine lockout activated and shut down plant. Virus reduction limits exceeded. From 09:16:03 to 09:23:31 virus reduction below provincial limits for log removal. Carrier water supply re-established and plant re-started. AWQI # 83407	4-Sep-2008
12-Nov-2008	Low UV Dose Low Giardia & Crypto log removal	<40	mJ/cm ²	#2 Pump Drive failed, low UV dose, Crypto & Giardia log removal related to delay in valve closure. Event duration 1.82 minutes. Maintenance performed on #2 UV reactor. AWQI #85359	13-Nov-2008
27-Nov-2008	Low UV Dose Low Giardia & Crypto log removal	<40	mJ/cm ²	#2 UV Reactor shut down on low dosage; below 40 mJ/cm ² . Crypto and Giardia were adverse on shutdown and start-up due to valve delay time. Crypto – 2 min 17 sec and Giardia- 3 min 15 sec. Treated free chlorine residual 1.46 mg/L to 1.83 mg/L.	28-Nov-2008

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				Monitored #3 UV reactor start-up was good. #2 UV reactor lamps need to be checked for proper intensity. AWQI # 85582	
30-Nov-2008	Low UV Dose Low Giardia & Crypto log removal	<40	mJ/cm ²	#2 UV reactor shutdown due to low dosage. Giardia adverse 3 min 39 sec and crypto adverse 3 min 37 sec. UV dosage went below 40 mJ/cm ² and stayed below until valve delayed shut-down complete. Treated chlorine residual and #3 pump and reactor are now lead. Replaced #4 - #7-#8 lamp sleeves, re-lubricated #4-#7-#8 lamp sleeves. Checked all 4 sensor sleeves. Replaced #4 and #7 sensor sleeves cleaned #8. Replaced #4 lamp. Started/tested #2 reactor. AWQI#85611	1-Dec-2008
18-Aug-08	Lead	0.014	mg/L	Hydrant # 381 located on Jane street at Bell street exceeded Lead standard 0.014mg/l. Flushed Mains and resampled AWQI # 82822. Resample on 21-Aug-08 failed 0.032 mg/l AWQI# 83039. Hydrant flushed for approximately 12 hours and resampled results reported on 26-Aug-08 show the water quality is no longer adverse <0.001 mg/l.	26-Aug-08

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

	Number of Samples	Range of E.Coli Results (#-#)	Range of Total Coliform Results (#-#)	Number of Samples Back-ground Colony Counts	Range of Results Background Colony Counts (#-#)	Number of Samples HPC Counts	Range of Results HPC Counts (#-#)
Raw	53	0 - 3	0 - 139	5	0 - >200	NA	NA
Treated	52	0 - 0	0 - 0	52	0 - 10	52	0 - 116
Distribution Fixed Sites (reservoirs & rechlorination)	306	0 - 0	0 - 0	306	0 - >200	100	0 - 168
Distribution Random Sites	518	0 - 0	0 - 0	518	0 - 82	157	0 - 114

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Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

POE Grab Samples

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	242	0.9 – 0.88 NTU
Chlorine	355	0.425 – 1.67 mg/L
Fluoride (If the DWS provides fluoridation)	134	0.41 – 0.68 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.*

Distribution Grab Samples

	Number of Grab Samples	Range of Results (min #)-(max #)
Chlorine Fixed Sites	518	0.12 – 1.63 mg/L
Chlorine Random Sites	2139	0.09 – 2.51 mg/L

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

POE On-line Continuous Analyzers

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	8760	0.00 – 6.00 NTU
Free Chlorine Residual	8760	0.00 – 2.00 mg/L
Fluoride (If the DWS provides fluoridation)	8760	0 – 1.02 mg/L

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

Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
NA				

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	14 Feb 08	<0.0005	mg/L	
Arsenic	14 Feb 08	<0.001	mg/L	
Barium	14 Feb 08	<0.005	mg/L	
Boron	14 Feb 08	<0.010	mg/L	
Cadmium	14 Feb 08	<0.0001	mg/L	
Chromium	14 Feb 08	<0.005	mg/L	
Lead 1184 Premier Rd 617 Main St. S	14 Feb 08	<0.5	ug/L	Special Note: Community Lead Testing Lead Testing was completed during two sample periods in 2008 as per Schedule 15.1. Results indicated that the concentrations of two residential lead samples were above the Ontario Drinking Water Quality Standard of 10 micrograms per liter. Refer to separate community lead sampling results summary table following.
	14 Feb 08	1.4	ug/L	
Mercury	14 Feb 08	<0.000001	mg/L	
Selenium	14 Feb 08	<0.002	mg/L	
Sodium	14 Feb 08	15	mg/L	
Uranium	14 Feb 08	<0.0001	mg/L	
Fluoride	14 Feb 08	0.6	mg/L	
Nitrite	14 Feb 08	<0.01	mg/L	
	14 May 08	<0.01	mg/L	
	11 Aug 08	<0.01	mg/L	
	<u>18 Nov 08</u>	<u><0.01</u>	<u>mg/L</u>	
	Average	<0.01	mg/L	
Nitrate	14 Feb 08	0.1	mg/L	
	14 May 08	0.1	mg/L	
	11 Aug 08	0.2	mg/L	
	<u>18 Nov 08</u>	<u>0.1</u>	<u>mg/L</u>	
	Average	0.13	mg/L	

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Summary of lead testing under O. Reg. 170/03 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)

Round 1	Number of Lead Samples	Number of Adverse Results	Range of Lead Samples (ug/L)		Range of PH Sample Results		Range of Alkalinity Sample Results (mg/L as CaCO3)	
			MIN #	MAX #	MIN #	MAX #	MIN #	MAX #
Hydrants	16	0	<1	2	7.45	8.86	15.2	19.3
Non-Residential	8	0	<1	8	7.19	7.99	NA	NA
Residential	80	2	<1	29	7.11	8.66	NA	NA
Round 2	Number of Lead Samples	Number of Adverse Results	Range of Lead Samples (ug/L)		Range of PH Sample Results		Range of Alkalinity Sample Results (mg/L as CaCO3)	
			MIN #	MAX #	MIN #	MAX #	MIN #	MAX #
Hydrants	16	1	<1	32	7.19	7.56	14	17.6
Non-Residential	8	1	<1	21	7.09	7.66	NA	NA
Residential	80	1	<1	21	6.88	7.46	NA	NA

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	14 Feb 08	<0.5	ug/L	
Aldicarb	14 Feb 08	<5	ug/L	DL > ½ MAC
Aldrin + Dieldrin	14 Feb 08	<0.01	ug/L	
Atrazine + N-dealkylated metabolites	14 Feb 08	<1	ug/L	
Azinphos-methyl (Guthion)	14 Feb 08	<2	ug/L	
Bendiocarb	14 Feb 08	<2	ug/L	
Benzene	14 Feb 08	<0.1	ug/L	
Benzo(a)pyrene	14 Feb 08	<0.009	ug/L	DL > ½ MAC
Bromoxynil	14 Feb 08	<0.5	ug/L	
Carbaryl	14 Feb 08	<5	ug/L	
Carbofuran	14 Feb 08	<5	ug/L	
Carbon Tetrachloride	14 Feb 08	<0.1	ug/L	
Chlordane (Total)	14 Feb 08	<0.01	ug/L	
Chlorpyrifos	14 Feb 08	<1	ug/L	
Cyanazine	14 Feb 08	<1	ug/L	

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Diazinon	14 Feb 08	<1	ug/L	
Dicamba	14 Feb 08	<1	ug/L	
1,2-Dichlorobenzene	14 Feb 08	<0.2	ug/L	
1,4-Dichlorobenzene	14 Feb 08	<0.2	ug/L	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	14 Feb 08	<0.02	ug/L	
1,2-Dichloroethane	14 Feb 08	<0.2	ug/L	
1,1-Dichloroethylene (vinylidene chloride)	14 Feb 08	<0.1	ug/L	
Dichloromethane	14 Feb 08	<0.5	ug/L	
2-4 Dichlorophenol	14 Feb 08	<0.5	ug/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	14 Feb 08	<1	ug/L	
Diclofop-methyl	14 Feb 08	<0.9	ug/L	
Dimethoate	14 Feb 08	<3	ug/L	
Dinoseb	14 Feb 08	<1	ug/L	
Diquat	14 Feb 08	<7	ug/L	
Diuron	14 Feb 08	<10	ug/L	
Glyphosate	14 Feb 08	<10	ug/L	
Heptachlor + Heptachlor Epoxide	14 Feb 08	<0.01	ug/L	
Lindane (Total)	14 Feb 08	<0.006	ug/L	
Malathion	14 Feb 08	<5	ug/L	
Methoxychlor	14 Feb 08	<0.02	ug/L	
Metolachlor	14 Feb 08	<0.5	ug/L	
Metribuzin	14 Feb 08	<5	ug/L	
Monochlorobenzene	14 Feb 08	<0.1	ug/L	
Paraquat	14 Feb 08	<1	ug/L	
Parathion	14 Feb 08	<1	ug/L	
Pentachlorophenol	14 Feb 08	<0.5	ug/L	
Phorate	14 Feb 08	<0.5	ug/L	
Picloram	14 Feb 08	<5	ug/L	
Polychlorinated Biphenyls(PCB)	14 Feb 08	<0.05	ug/L	
Prometryn	14 Feb 08	<0.3	ug/L	
Simazine	14 Feb 08	<1	ug/L	
THM	14 Feb 08	65.0	ug/L	
(NOTE: show latest annual average)	14 May 08	105	ug/L	
* not included in average	11 Aug 08	87.1	ug/L	
(only the highest value for	<u>18 Nov 08</u>	<u>106</u>	<u>ug/L</u>	
each quarter is used for the average	Average	90.8	ug/L	
Temephos	14 Feb 08	<10	ug/L	
Terbufos	14 Feb 08	<0.5	ug/L	DL > ½ MAC
Tetrachloroethylene	14 Feb 08	<0.1	ug/L	
2,3,4,6-Tetrachlorophenol	14 Feb 08	<0.5	ug/L	
Triallate	14 Feb 08	<1	ug/L	
Trichloroethylene	14 Feb 08	<0.1	ug/L	
2,4,6-Trichlorophenol	14 Feb 08	<0.5	ug/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	14 Feb 08	<1	ug/L	
Trifluralin	14 Feb 08	<1	ug/L	
Vinyl Chloride	14 Feb 08	<0.2	ug/L	

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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	½ MAC VALUE	MAC Value	Date of Sample
Aldicarb	<5 lab detection level	ug/L	4.5	9	14 Feb 08
Benzo(a)pyrene	<0.009 lab detection level	ug/L	0.005	0.01	14 Feb 08
Lead	14 – 17.6	ug/l	0.05	10	19 Feb 08

Note! In all of the cases above the analysis result value was less than the lab detection limit. However the lab detection limit is above the ½ MAC value.