

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	220003421
Drinking-Water System Name:	Windsor Utilities Commission
Drinking-Water System Owner:	City of Windsor
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	Calendar Year 2004

<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;"> City of Windsor – City Hall 350 City Hall Square Windsor ON N9A 6S1 </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
Town of LaSalle, Ontario	220004402

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

Surface water source (Detroit River)

Conventional treatment program including: Screening, Primary Disinfection including taste and odour control (Ozone), Coagulation, Flocculation, Sedimentation, Filtration, pH adjustment, Chlorination and Fluoridation.

Sedimentation sludge and backwash water treatment through coagulation, flocculation and sedimentation followed by sludge dewatering and disposal.

List all water treatment chemicals used over this reporting period

Ozone, Aluminum Sulphate (Alum), Carbon Dioxide (CO₂), Chlorine, Fluoride, Cationic Polymer LT-22

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

N/a

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
01/13/04	Free Chlorine - AWQI No. 22336	0.01	ppm	Flush and Resample	01/13/04
01/16/04	Free Chlorine - AWQI No. 22438	0.01	ppm	Flush and Resample	01/16/04
01/29/04	Free Chlorine - AWQI No. 22736	0.02	ppm	Flush and Resample	01/29/04

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

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
02/04/04	TC Background - AWQI No. 22844	>200	CFU/100 mL	Resample over 48 hours	02/04/04
02/05/04	Free Chlorine - AWQI No. 22905	0.04	ppm	Flush and Resample	02/05/05
02/05/04	Free Chlorine - AWQI No. 22906	0.03	ppm	Flush and Resample	02/05/04
02/23/04	None –service line break			Repair and Sample	02/23/04
02/25/04	Free Chlorine - AWQI No. 23343	0.00	ppm	Flush and Resample	02/25/04
03/04/04	Free Chlorine - AWQI No. 23581	0.00	ppm	Flush and Resample	03/04/04
03/05/04	None – service line break			Repair and Sample	03/05/04
03/05/04	Total Coliform - AWQI No. 23620	1	CFU/100 mL	Resample over 48 hours	03/05/04
03/11/04	None – Main break			Repair and Sample	03/11/04
03/18/04	Free Chlorine – AWQI No. 24015	0.04	Mg/L	Flush and Resample	03/18/04
03/23/04	Free Chlorine - AWQI No. 24141	0.01	ppm	Flush and Resample	03/23/04
03/30/04	Free Chlorine - AWQI No. 24372	0.01	ppm	Flush and Resample	03/30/04
04/08/04	Free Chlorine - AWQI No. 24714	0.02	ppm	Flush and Resample	04/08/04
04/08/04	Free Chlorine - AWQI No. 24723	0.04	ppm	Flush and Resample	04/08/04
04/13/04	Free Chlorine - AWQI No. 24844	0.04	ppm	Flush and Resample	04/13/04
04/15/04	Free Chlorine - AWQI No. 24910	0.04	ppm	Flush and Resample	04/15/04
04/15/04	Free Chlorine - AWQI No. 24911	0.04	ppm	Flush and Resample	04/15/04
04/16/04	Free Chlorine - AWQI No. 24958	0.02	ppm	Flush and Resample	04/16/04
04/16/04	Free Chlorine - AWQI No. 24982	0.04	ppm	Flush and Resample	04/16/04
04/27/04	Free Chlorine - AWQI No. 25353	0.00	ppm	Flush and Resample	04/27/04
04/28/04	Free Chlorine - AWQI No. 25401	0.02	ppm	Flush and Resample	04/28/04
04/30/04	Free Chlorine - AWQI No. 25509	0.00	ppm	Flush and Resample	04/30/04
04/30/04	Free Chlorine - AWQI No. 25538	0.02	ppm	Flush and Resample	04/30/04
05/11/04	Free Chlorine - AWQI No. 25893	0.03	ppm	Flush and Resample	05/11/04
05/11/04	Total Coliform - AWQI No. 25989	1	CFU/100 mL	Resample over 48 hours	05/11/04
05/21/04	Free Chlorine - AWQI No. 26385	0.03	ppm	Flush and Resample	05/21/04
05/27/04	Free Chlorine - AWQI No. 26632	0.00	ppm	Flush and Resample	05/27/04
05/28/04	Dissolved Lead - AWQI No. 26745	0.025	ppm	Determine Pb in dist. system and Resample	05/28/04
06/24/04	Free Chlorine - AWQI No. 28215	0.00	ppm	Flush and Resample	06/24/04
06/28/04	Free Chlorine - AWQI No. 28374	0.02	ppm	Flush and Resample	06/28/04
07/14/04	Free Chlorine - AWQI No. 29269	0.02	ppm	Flush and Resample	07/14/04
07/14/04	Free Chlorine - AWQI No. 29303	0.02	ppm	Flush and Resample	07/14/04
07/16/04	Free Chlorine - AWQI No. 29499	0.02	ppm	Flush and Resample	07/16/04

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Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
07/17/04	Free Chlorine - AWQI No. 29578	0.04	ppm	Flush and Resample	07/17/04
07/28/04	Free Chlorine - AWQI No. 30134	0.01	ppm	Flush and Resample	07/28/04
07/28/04	Free Chlorine - AWQI No. 30184	0.04	Mg/L	Flush and Resample	07/28/04
08/04/04	Total Coliform - AWQI No. 30553	1	CFU/100 mL	Resample over 48 hours	08/04/04
08/05/04	Free Chlorine - AWQI No. 30673	0.04	ppm	Flush and Resample	08/05/04
08/09/04	Free Chlorine - AWQI No. 30886	0.02	ppm	Flush and Resample	08/09/04
08/09/04	Free Chlorine - AWQI No. 30888	0.00	ppm	Flush and Resample	08/09/04
08/10/04	Free Chlorine - AWQI No. 30941	0.02	ppm	Flush and Resample	08/10/04
08/17/04	Free Chlorine - AWQI No. 31375	0.00	ppm	Flush and Resample	08/17/04
08/18/04	None - service line break AWQI No. 31416	0.04	ppm	Repair and Sample	08/18/04
08/19/04	None - service line break - AWQI No. 31501	0.01	ppm	Repair and Sample	08/18/04
08/19/04	None - service line break - AWQI No. 31503			Repair and Sample	08/18/04
08/19/04	Free Chlorine - AWQI No. 31530	0.00	ppm	Flush and Resample	08/19/04
08/20/04	Free Chlorine - AWQI No. 31585	0.00	ppm	Flush and Resample	08/20/04
08/31/04	Free Chlorine - AWQI No. 32062	0.02	ppm	Flush and Resample	08/31/04
09/01/04	Free Chlorine - AWQI No. 32154	0.02	ppm	Flush and Resample	09/01/04
09/15/04	Free Chlorine - AWQI No. 32812	0.01	ppm	Flush and Resample	09/15/04
09/15/04	None - service line break - AWQI No. 32846			Repair and Sample	09/15/04
09/17/04	Total Coliform - AWQI No. 33042	1	CFU/100 mL	Resample over 48 hours	09/17/04
09/22/04	Total Coliform - AWQI No. 33197	1	CFU/100 mL	Resample over 48 hours	09/22/04
10/04/04	Free Chlorine - AWQI No. 33792	0.01	ppm	Flush and Resample	10/04/04
10/13/04	Free Chlorine - AWQI No. 34083	0.04	ppm	Flush and Resample	10/13/04
10/14/04	Total Coliform - AWQI No. 34126	1	CFU/100 mL	Resample over 48 hours	10/14/04
10/14/04	Free Chlorine - AWQI No. 34149	0.01	ppm	Flush and Resample	10/14/04
10/16/04	Fecal Coliform - AWQI No. 34283	2	CFU/100 mL	Resample over 48 hours	10/16/04
10/19/04	Free Chlorine - AWQI No. 34340	0.00	ppm	Flush and Resample	10/19/04
10/21/04	Dissolved Lead - AWQI No. 34451	0.013	ppm	Determine Pb in dist. system and Resample	10/21/04

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
10/26/04	None – service line break - AWQI No. 34581			Repair and Sample	10/26/04
10/26/04	None – service line break - AWQI No. 34582			Repair and Sample	10/26/04
10/28/04	Fecal Coliform - AWQI No. 34681	1	CFU/100 mL	Resample over 48 hours	10/28/04
10/30/04	Fecal Coliform - AWQI No. 34800	1	CFU/100 mL	Resample over 48 hours	10/30/04
11/02/04	None – service line break - AWQI No. 34870			Repair and Sample	11/02/04
11/02/04	Free Chlorine - AWQI No. 34871	0.04	ppm	Flush and Resample	11/02/04
11/03/04	Total Coliform - AWQI No. 34929	1	CFU/100 mL	Resample over 48 hours	11/03/04
11/05/04	Total Coliform - AWQI No. 35047	1	CFU/100 mL	Resample over 48 hours	11/05/04
11/17/04	Free Chlorine - AWQI No. 50243	0.03	ppm	Flush and Resample	11/17/04
11/23/04	Free Chlorine - AWQI No. 50391	0.00	ppm	Flush and Resample	11/23/04
11/29/04	Free Chlorine - AWQI No. 50578	0.01	ppm	Flush and Resample	11/29/04
12/06/04	Free Chlorine - AWQI No. 50777	0.04	ppm	Flush and Resample	12/06/04
12/13/04	Free Chlorine – AWQI No. 51010	0.02	ppm	Flush and Resample	12/14/04
12/21/04	None – service line break - AWQI No. 51241			Repair and Sample	12/21/04
12/29/04	Free Chlorine - AWQI No. 51446	0.01	ppm	Flush and Resample	12/29/04

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	250	<2 - 1790	<10 - 9000		
Treated	367	0 - 0	0 - 0	306	<1 - 1
Distribution	1950	0 - 2	0 - 1	938	<1 - 24

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	8760	0.01 – 0.20
Chlorine	8760	1.10 – 1.36
Fluoride (If the DWS provides fluoridation)	8760	0.47 – 0.73

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
November 2004 2159-64CP75	Bromates –treated water	Jan to Dec Monthly	<1 to 7.0	ppb
November 2004 2159-64CP75	Bromates - Distribution	Jan to Dec Monthly	<1 to 7.1	ppb
November 2004 2159-64CP75	Suspended solids - residue	Jan to Dec - monthly	<0.1 to 49.2	ppm

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Dec. 2004	<1	Ug/L	
Arsenic	Dec. 2004	<1	Ug/L	
Barium	Dec. 2004	20	Ug/L	
Boron	Dec. 2004	50	Ug/L	
Cadmium	Dec. 2004	<0.1	Ug/L	
Chromium	Dec. 2004	2	Ug/L	
Lead	Dec. 2004	<1 treated 1 distribution	Ug/L	
Mercury	Dec. 2004	<0.1	Ug/L	
Selenium	Dec. 2004	<5	Ug/L	
Sodium	N/a			
Uranium	Dec. 2004	<5	Ug/L	
Fluoride	Dec. 2004 Average	.64	Ug/L	
Nitrite	Dec. 2004	1	Ug/L	
Nitrate	Dec. 2004	10	Ug/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Dec. 2004	< 0.10	Ug/L	
Aldicarb	Dec. 2004	< 9	Ug/L	
Aldrin + Dieldrin	Dec. 2004	< 0.04	Ug/L	
Atrazine + N-dealkylated metabolites	Dec. 2004	< 0.2	Ug/L	
Azinphos-methyl	Dec. 2004	< 0.10	Ug/L	
Bendiocarb	Dec. 2004	< 0.20	Ug/L	
Benzene	Dec. 2004	< 0.5	Ug/L	
Benzo(a)pyrene	Dec. 2004	< 0.01	Ug/L	

Bromoxynil	Dec. 2004	<0.20	Ug/L	
Carbaryl	Dec. 2004	<0.20	Ug/L	
Carbofuran	Dec. 2004	<0.20	Ug/L	
Carbon Tetrachloride	Dec. 2004	<0.5	Ug/L	
Chlordane (Total)	Dec. 2004	<0.3	Ug/L	
Chlorpyrifos	Dec. 2004	<0.10	Ug/L	
Cyanazine	Dec. 2004	<0.10	Ug/L	
Diazinon	Dec. 2004	<0.10	Ug/L	
Dicamba	Dec. 2004	<0.20	Ug/L	
1,2-Dichlorobenzene	Dec. 2004	<0.5	Ug/L	
1,4-Dichlorobenzene	Dec. 2004	<0.5	Ug/L	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Dec. 2004	<0.10	Ug/L	
1,2-Dichloroethane	Dec. 2004	<0.5	Ug/L	
1,1-Dichloroethylene (vinylidene chloride)	Dec. 2004	<0.5	Ug/L	
Dichloromethane	Dec. 2004	<0.5	Ug/L	
2-4 Dichlorophenol	Dec. 2004	<0.50	Ug/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	Dec. 2004	<0.20	Ug/L	
Diclofop-methyl	Dec. 2004	<0.20	Ug/L	
Dimethoate	Dec. 2004	<0.10	Ug/L	
Dinoseb	Dec. 2004	<0.20	Ug/L	
Diquat	Dec. 2004	<7	Ug/L	
Diuron	Dec. 2004	<10	Ug/L	
Glyphosate	Dec. 2004	<10	Ug/L	
Heptachlor + Heptachlor Epoxide	Dec. 2004	<0.2	Ug/L	
Lindane (Total)	Dec. 2004	<0.10	Ug/L	
Malathion	Dec. 2004	<0.10	Ug/L	
Methoxychlor	Dec. 2004	<0.10	Ug/L	
Metolachlor	Dec. 2004	<0.10	Ug/L	
Metribuzin	Dec. 2004	<0.10	Ug/L	
Monochlorobenzene	Dec. 2004	<0.5	Ug/L	
Paraquat	Dec. 2004	<1	Ug/L	
Parathion	Dec. 2004	<0.10	Ug/L	
Pentachlorophenol	Dec. 2004	<0.50	Ug/L	
Phorate	Dec. 2004	<0.10	Ug/L	
Picloram	Dec. 2004	<0.20	Ug/L	
Polychlorinated Biphenyls(PCB)	Dec. 2004	<0.06	Ug/L	
Prometryne	Dec. 2004	<0.10	Ug/L	
Simazine	Dec. 2004	<0.10	Ug/L	
THM (NOTE: show latest annual average)	2004	7.2	Ug/L	
Temephos	Dec. 2004	<0.10	Ug/L	
Terbufos	Dec. 2004	<0.20	Ug/L	
Tetrachloroethylene	Dec. 2004	<0.5	Ug/L	

2,3,4,6-Tetrachlorophenol	Dec. 2004	<0.50	Ug/L	
Triallate	Dec. 2004	<0.10	Ug/L	
Trichloroethylene	Dec. 2004	<0.5	Ug/L	
2,4,6-Trichlorophenol	Dec. 2004	<0.50	Ug/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Dec. 2004	<0.20	Ug/L	
Trifluralin	Dec. 2004	<0.10	Ug/L	
Vinyl Chloride	Dec. 2004	<0.5	Ug/L	

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
Bromate (Treated)	7.0	Ppb	Feb 27, 2004
Bromate (Distribution)	6.0 – 7.1	Ppb	Feb 27, 2004
Bromate (Treated)	6.7	Ppb	Dec. 17, 2004
Bromate (Distribution)	5.1 – 6.4	Ppb	Dec. 17, 2004

(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.)