

PARAMETERS	HEALTH CANADA RECOMMENDATIONS (2020)	QUEBEC REGULATION DRINKING WATER QUALITY (Q-2,r.40)	DRINKING WATER		
			CONCENTRATION		
			MIN.	AVE.	MAX.
<b>Physical Properties</b>					
pH (units)	7,0-10,5 <sup>4</sup>	6,5 - 8,5	7,05	7,40	7,84
Turbidity (N.T.U.) <sup>2</sup> - Pierrefonds	≤1,0	≤5	0,12	0,39	2,84
Turbidity (N.T.U.) <sup>2</sup> - Dollard-des-Ormeaux			0,11	0,45	3,40
Turbidity (N.T.U.) <sup>2</sup> - Senneville			0,16	0,37	1,85
Turbidity (N.T.U.) <sup>2</sup> - Ste-Anne-de-Bellevue			0,10	0,15	0,20
<b>Biological Characteristics</b>					
			<b>ANNUAL AVERAGE</b>		
<b>Pierrefonds-Roxboro Network</b>					
Total coliforms (C.F.U./100ml)	>90% ABS <sup>4</sup>	>90% ABS <sup>4</sup>	99,9 % ABS <sup>9</sup>		
E. coli (C.F.U./100ml)	ABS <sup>4</sup>	<1 or ABS <sup>4</sup>	100 % ABS <sup>9</sup>		
<b>Dollard-Des-Ormeaux Network</b>					
Total coliforms (C.F.U./100ml)	>90% ABS <sup>4</sup>	>90% ABS <sup>4</sup>	99,8 % ABS <sup>9</sup>		
E. coli (C.F.U./100ml)	ABS <sup>4</sup>	<1 or ABS <sup>4</sup>	100 % ABS <sup>9</sup>		
<b>Senneville Network (Phillips Aqueduct)</b>					
Total coliforms (C.F.U./100ml)	>90% ABS <sup>4</sup>	>90% ABS <sup>4</sup>	100% ABS <sup>9+10</sup>		
E. coli (C.F.U./100ml)	ABS <sup>4</sup>	<1 or ABS <sup>4</sup>	100 % ABS <sup>8+9</sup>		
<b>Sainte-Anne-de-Bellevue Network</b>					
Total coliforms (C.F.U./100ml)	>90% ABS <sup>4</sup>	>90% ABS <sup>4</sup>	100 % ABS <sup>8+9</sup>		
E. coli (C.F.U./100ml)	ABS <sup>4</sup>	<1 or ABS <sup>4</sup>	100 % ABS <sup>8+9</sup>		

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<b>Inorganic and Organic Chemical Characteristics (mg/l)</b>						
Antimony (Sb)	0.006		≤0.006	0,00005	0,00005	0,00005
Aluminum (Al) **	<0.1		--	0,03740	0,04688	0,05420
Silver (Ag) **	--		--	<0,00003	<0,00003	<0,00003
Arsenic (As)	0.010		≤0.010	0,00025	0,00025	0,00025
Barium (Ba)	2		≤1.0	0,01460	0,01460	0,01460
Bore (B)	5		≤5.0	<0,02	<0,02	<0,02
Bromated (BrO <sub>3</sub> ) *	0.01		≤0.010	<0,006	<0,006	<0,006
Cadmium (Cd)	0,007		≤0.005	<0,00004	<0,00004	<0,00004
Calcium (Ca) **	--		--	13,20	14,91	<0,00705
Chromium (Cr)	0.05		≤0.050	0,00011	0,00011	0,00011
Cobalt (Co) **	--		--	0,00007	0,00018	0,00036
Copper (Cu) <sup>7</sup>	2	1.0 <sup>1</sup>	≤1.0	0.0402	0.0402	0.0402
Cyanides (CN)	0.2		≤0.20	<0,005	<0,005	<0,005
Iron (Fe) **	≤0.3 <sup>1</sup>		--	0,02	0,03	0,05
Fluorides (F)	1.5		≤1.50	0,13	0,13	0,13
Magnesium (Mg) **	--		--	1,80	2,19	<0,00331
Manganese (Mn) **	0.12	≤0.02 <sup>1</sup>	--	0,00313	0,00509	<0,00001
Mercury (Hg)	0.001		≤0.001	<0,00003	<0,00003	<0,00003
Nickel (Ni) **	--		--	0,00046	0,00065	0,00085
Nitrites (NO <sub>2</sub> -N) + nitrates (NO <sub>3</sub> -N)	1 +10		≤10.0	0,19	0,22	0,26
Lead (Pb) <sup>7</sup>	0.005		≤0.010	0.000105	0.000105	0.000105
Potassium (K) **	--		--	0,63	0,73	<0,00376
Selenium (Se)	0.05		≤0.010	<0,00021	<0,00021	<0,00021
Sodium (Na) **	≤200 <sup>1</sup>		--	3,39	5,42	<0,00389
Uranium (U)	0.02		≤0.020	0,00002	0,00002	0,00002
Zinc (Zn) **	≤5.0 <sup>1</sup>		--	0,00066	0,00101	0,00219

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<b>Carbamates</b>					
Bendiocarb *	-		27	0,10	N.D.
Carbaryl *	90		70	0,20	N.D.
Carbofuran *	90		70	0,10	N.D.
<b>Volatile Organic Compounds (VOC)</b>					
1,1,1,2-Tétrachloroethane	-		-	0,06	N.D.
1,1,1-Trichloroethane	-		-	0,06	N.D.
1,1,2,2-Tétrachloroethane	-		-	0,06	N.D.
1,1,2-Trichloroethane	-		-	0,06	N.D.
1,1-Dichloroethane	-		-	0,06	N.D.
1,1-Dichloroethylene	14		10	0,06	N.D.
1,1-Dichloropropene	-		-	0,06	N.D.
1,2,3-Trichlorobenzene	-		-	0,06	N.D.
1,2,3-Trichloropropane	-		-	0,06	N.D.
1,2,4-Trichlorobenzene	-		-	0,06	N.D.
1,2,4-Triméthylbenzene	-		-	0,06	N.D.
1,2-Dibromo-3-chloropropane	-		-	0,06	N.D.
1,2-Dibromoethane	-		-	0,06	N.D.
1,2-Dichlorobenzene	200	3 <sup>1</sup>	150	0,06	N.D.
1,2-Dichloroethane	5		5	0,06	N.D.
1,2-Dichloropropane	-		-	0,06	N.D.
1,3,5-Triméthylbenzene	-		-	0,06	N.D.
1,3-Dichlorobenzene	-		-	0,06	N.D.
1,3-Dichloropropane	-		-	0,06	N.D.
1,4-Dichlorobenzene	5	1 <sup>1</sup>	5	0,06	N.D.
2,2-Dichloropropane	-		-	0,06	N.D.
2-Chlorotoluene	-		-	0,06	N.D.
4-Chlorotoluene	-		-	0,06	N.D.
4-Isopropytoluene	-		-	0,06	N.D.
Benzene	5		0,5	0,06	N.D.
Bromobenzene	-		-	0,06	N.D.
Bromochloromethane	-		-	0,06	N.D.
Bromoform - Pierrefonds	-		See Note 3	0,06	N.D.
Bromoform - Dollard-des-Ormeaux	-				N.D.
Bromoform - Senneville	-				N.D.
Bromoform - Ste-Anne-de-Bellevue	-				N.D.
Bromodichloromethane - Pierrefonds	-		See Note 3	0,06	9,20
Bromodichloromethane - Dollard-des-Ormeaux	-				9,70
Bromodichloromethane - Senneville	-				6,70
Bromodichloromethane - Ste-Anne-de-Bellevue	-				8,60

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	<b>Volatile Organic Compounds (VOC)</b>				
Bromomethane	-	-	-	0,06	N.D.
Chlorobenzene	80	30 <sup>1</sup>	60	0,06	N.D.
Chlorodibromomethane - Pierrefonds	-	-	See Note 3	0,06	1,10
Chlorodibromomethane - Dollard-des-Ormeaux	-	-			9,60
Chlorodibromomethane - Senneville	-	-			1,40
Chlorodibromomethane - Ste-Anne-de-Bellevue	-	-			1,20
Chloroethane	-	-	-	0,06	N.D.
Chloroform - Pierrefonds	-	-	See Note 3	0,06	64,00
Chloroform - Dollard-des-Ormeaux	-	-			75,80
Chloroform - Senneville	-	-			74,30
Chloroform - Ste-Anne-de-Bellevue	-	-			69,20
Chloromethane	-	-	-	0,06	N.D.
Vinyl chloride	2	-	2	0,06	N.D.
cis-1,2-Dichloroethylene	-	-	-	0,06	N.D.
cis-1,3-Dichloropropene	-	-	-	0,06	N.D.
Dibromomethane	-	-	-	0,06	N.D.
Dichlorodifluoromethane	-	-	-	0,06	N.D.
Dichloromethane	50	-	50	0,06	N.D.
Diethylether	-	-	-	0,06	N.D.
Carbon disulfide	-	-	-	0,06	N.D.
Ethylbenzene	140	1,6 <sup>1</sup>	-	0,06	N.D.
Hexachlorobutadiene	-	-	-	0,06	N.D.
Isopropylbenzene	-	-	-	0,06	N.D.
MTBE(methyl tert-butyl ether)	-	15 <sup>1</sup>	-	0,06	N.D.
m-Xylene + p-Xylene + o-Xylene	90	20 <sup>1</sup>	-	0,06	N.D.
Naphthalene	-	-	-	0,06	N.D.
n-Butylbenzene	-	-	-	0,06	N.D.
n-Propylbenzene	-	-	-	0,06	N.D.
sec-Butylbenzene	-	-	-	0,06	N.D.

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<b>Volatile Organic Compounds (VOC)</b>					
Styrene	-		-	0,06	N.D.
tert-Butylbenzene	-		-	0,06	N.D.
Tetrachloroethylene	10		25	0,06	N.D.
Carbon tetrachloride	2		5	0,06	N.D.
Toluene	60	24 <sup>1</sup>	-	0,06	N.D.
trans-1,2-Dichloroethylene	-		-	0,06	N.D.
trans-1,3-Dichloropropene	-		-	0,06	N.D.
Trichloroethylene	5		5	0,06	N.D.
Trichlorofluoromethane	-		-	0,06	N.D.
Trihalomethanes (THM) (Total) <sup>6</sup> - Pierrefonds					74,30
Trihalomethanes (THM) (Total) <sup>6</sup> - Dollard-des-Ormeaux					86,60
Trihalomethanes (THM) (Total) <sup>6</sup> - Senneville	-		See Note 3	0,24	81,30
Trihalomethanes (THM) (Total) <sup>6</sup> - Ste-Anne-de-Bellevue					79,00
Trihalomethanes (THM) (total) - Pierrefonds Annual mean concentration					60,83
Trihalomethanes (THM) (total) - Dollard-des-Ormeaux Annual mean concentration	100		80 <sup>3</sup>	0,24	70,40
Trihalomethanes (THM) (total) - Senneville Annual mean concentration					57,75
Trihalomethanes (THM) (total) - Ste-Anne-de-Bellevue Annual mean concentration					65,65
<b>Phenolic Compounds</b>					
2,3,4,6-Tetrachlorophenol *	100	1 <sup>1</sup>	70	0,50	N.D.
2,4 -Dichlorophenol *	900	0,3 <sup>1</sup>	700	0,50	N.D.
2,4,6-Trichlorophenol *	5	2 <sup>1</sup>	5	0,50	N.D.
Pentachlorophenol *	60	30 <sup>1</sup>	42	0,50	N.D.
<b>Glyphosate</b>					
Glyphosate *	280		210	10,00	N.D.
<b>Polycyclic Aromatic Hydrocarbons (PAH)</b>					
Benzo(a)pyrene *	0,04		0,01	0,002	N.D.
<b>Triazine Herbicides</b>					
Atrazine and metabolites *	5		3,5	0,10	N.D.
Cyanazine *	-		9	0,10	N.D.
Metribuzine *	80		60	0,10	N.D.
Simazine *	10		9	0,10	N.D.

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				MAXIMUM DETECTED (µg/L)
<b>Chlorophenoxy Acid and Trichloroacetate Pesticides</b>				
2,4-D *	100	70	0,10	N.D.
Dicamba *	120	85	0,10	N.D.
Dinoseb *	-	7	0,10	N.D.
Picloram *	190	140	0,10	N.D.
<b>Organochlorine Pesticides</b>				
Metolachlor *	50	35	0,10	N.D.
Methoxychlor *	-	700	0,05	N.D.
Trifluralin *	45	35	0,10	N.D.
<b>Organophosphorus Pesticides</b>				
Azinphos-methyl *	20	17	0,10	N.D.
Chlorpyrifos *	90	70	0,05	N.D.
Diazinon *	20	14	0,10	N.D.
Dimethoate *	20	14	0,10	N.D.
Diuron *	150	110	0,50	N.D.
Malathion *	190	140	0,10	N.D.
Parathion *	-	35	0,10	N.D.
Phorate *	2	1,4	0,10	N.D.
Terbufos *	1	0,5	0,10	N.D.
<b>Others</b>				
Bromoxynil *	5	3,5	0,10	N.D.
Methyl-Diclofop *	9	7	0,10	N.D.
Diquat *	70	50	1,00	N.D.
Paraquat *	10	7	1,00	N.D.
Haloacetic Acids *	80	60	3,00	26,70

- \*: Analyzed by an outside accredited laboratory.
- \*\* : At the exit of water treatment plant.
- RDL: Reported Detection Limit.
- N.D.: Not detected, lower than the detection limit method.
- D.: Detected, but cannot determine quantity.

**Notes:**

- 1: Esthetical or organoleptic reasons.
- 2: Turbidity must be equal or under 5 NTU (nephelometric turbidity units).
- 3: The annual mean concentration of total THM (chloroform, bromodichloromethane, chlorodibromomethane and bromoform) calculated over four consecutive quarters must not exceed 80 µg/L (samples taken at the end of drinking water distribution network).
- 4: ABS = Absence. PRE= presence
- 5: Health reasons objectives.
- 6: Maximum obtained for a sampling site.
- 7: Lead and copper level at the center of water distribution network. When water samples are taken from old pipes (before 1970) results are shown below.

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				MIN.	AVE.	MAX.
				<b>Copper and Lead (mg/l)</b>		
<b>Pierrefonds-Roxboro Network</b>						
Copper (Cu)	2	1.0 <sup>1</sup>	≤1.0	0,01600	0,05606	0,14900
Lead (Pb)	0.005		≤0.010	0,00008	0,00294	0,07144
<b>Dollard-Des-Ormeaux Network</b>						
Copper (Cu)	2	1.0 <sup>1</sup>	≤1.0	0,01460	0,04297	0,10600
Lead (Pb)	0.005		≤0.010	0,00009	0,00056	0,00256
<b>Senneville Network (Phillips Aqueduct)</b>						
Copper (Cu)	2	1.0 <sup>1</sup>	≤1.0	0,01020	0,02726	0,05380
Lead (Pb)	0.005		≤0.010	0,00008	0,00080	0,00201
<b>Sainte-Anne-de-Bellevue Network</b>						
Copper (Cu)	2	1.0 <sup>1</sup>	≤1.0	0,00329	0,01695	0,03150
Lead (Pb)	0.005		≤0.010	0,00003	0,00046	0,00144

- 8: When less than 21 water samples are taken over a period of 30 consecutive days, only one of these samples may have a presence of total coliforms. It have been respected in 2020
- 9: There is no requirement for annual average. It is used only as a reference. For all year long, monthly average have been respected
- 10: When less than 21 water samples are taken over a period of 30 consecutive days, only one of these samples may have a presence of total coliforms. It have not been respected for one month, in 2018. Despite that non respect, water was potable.