

PARAMETERS	HEALTH CANADA RECOMMENDATIONS (2022)	QUEBEC REGULATION DRINKING WATER QUALITY (Q-2,r.40)	DRINKING WATER		
			CONCENTRATION		
			MIN.	AVE.	MAX.
Physical Properties					
pH (units)	7,0-10,5 ⁵	6,5 - 8,5	7,05	7,27	7,44
Turbidity (N.T.U.) ² - Pointe-Claire	≤1,0	≤5	0,12	0,19	0,27
Turbidity (N.T.U.) ² - Dollard-des-Ormeaux			0,11	0,22	0,31
Turbidity (N.T.U.) ² - Beaconsfield			0,09	0,15	0,26
Turbidity (N.T.U.) ² - Kirkland			0,14	0,97	4,51
Turbidity (N.T.U.) ² - Baie d'Urfée			0,09	0,15	0,22
Biological Characteristics					
			ANNUAL AVERAGE		
Pointe-Claire Network					
Total coliforms (C.F.U./100ml)	>90% ABS ⁴	>90% ABS ⁴	99,54 % ABS ⁹		
E. coli (C.F.U./100ml)	ABS ⁴	<1 or ABS ⁴	100 % ABS ⁹		
Dollard-Des-Ormeaux Network					
Total coliforms (C.F.U./100ml)	>90% ABS ⁴	>90% ABS ⁴	100 ABS ^{8 + 9}		
E. coli (C.F.U./100ml)	ABS ⁴	<1 or ABS ⁴	100 % ABS ^{8 + 9}		
Beaconsfield Network					
Total coliforms (C.F.U./100ml)	>90% ABS ⁴	>90% ABS ⁴	100 % ABS ⁹		
E. coli (C.F.U./100ml)	ABS ⁴	<1 or ABS ⁴	100 % ABS ⁹		
Kirkland Network					
Total coliforms (C.F.U./100ml)	>90% ABS ⁴	>90% ABS ⁴	99,26 % ABS ⁹		
E. coli (C.F.U./100ml)	ABS ⁴	<1 or ABS ⁴	100 % ABS ⁹		
Baie d'Urfée Network					
Total coliforms (C.F.U./100ml)	>90% ABS ⁴	>90% ABS ⁴	99 % ABS ^{8 + 9}		
E. coli (C.F.U./100ml)	ABS ⁴	<1 or ABS ⁴	99 % ABS ^{8 + 9}		

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				MIN.	AVE.	MAX.
Inorganic and Organic Chemical Characteristics (mg/l)						
Antimony (Sb)	≤0.006		≤0.006	0,00008	0,00008	0,00008
Aluminum (Al) **	2,900		--	0,02330	0,05058	0,15300
Silver (Ag) **	--		--	<0,00003	<0,00003	<0,00003
Arsenic (As)	≤0.010		≤0.010	0,00036	0,00036	0,00036
Barium (Ba)	≤2,0		≤1.0	0,01370	0,01370	0,01370
Bore (B)	≤5		≤5.0	<0,1	<0,1	<0,1
Cadmium (Cd)	≤0.007		≤0.005	<0,00004	<0,00004	<0,00004
Calcium (Ca) **	--		--	12,50	16,99	24,50
Chromium (Cr)	≤0.05		≤0.050	0,00009	0,00009	0,00009
Cobalt (Co) **	--		--	<0,00002	0,00003	0,00006
Copper (Cu) ⁷	≤2,0	≤1.0 ¹	≤1.0	0,01180	0,01180	0,01180
Cyanides (CN ⁻)	≤0.2		≤0.20	<0,004	<0,004	<0,004
Iron (Fe) **	≤0.3 ¹		--	0,01	0,01	0,02
Fluorides (F ⁻)	≤1.5		≤1.50	0,07	0,07	0,07
Magnesium (Mg) **	--		--	1,71	2,63	4,03
Manganese (Mn) **	≤0.12	≤0.02 ¹	--	0,00244	0,00491	0,00742
Mercury (Hg)	≤0.001		≤0.001	<0,00003	<0,00003	<0,00003
Nickel (Ni) **	--		--	<0,00003	0,00039	<0,00003
Nitrites (NO ₂ -N) + nitrates (NO ₃ -N)	≤1 + ≤10		≤10.0	0,13	0,20	0,24
Lead (Pb) ⁷	≤0.005		≤0.005	0,00010	0,00010	0,00010
Potassium (K) **	--		--	0,57	0,76	1,19
Selenium (Se)	≤0.05		≤0.010	<0,00021	<0,00021	<0,00021
Sodium (Na) **	≤200 ¹		--	3,32	6,99	9,40
Uranium (U)	≤0.02		≤0.020	0,00002	0,00002	0,00002
Zinc (Zn) **	≤5.0 ¹		--	<0,00017	0,00059	<0,00017

PARAMETERS	HEALTH CANADA RECOMMENDATIONS (2022) Maximum concentration µg/L		QUEBEC REGULATION DRINKING WATER QUALITY (Q-2,r.40) Maximum concentration µg/L	RDL (µg/L)	DRINKING WATER
					MAXIMUM DETECTED (µg/L)
Carbamates					
Bendiocarb *	-		27	0,10	N.D.
Carbaryl *	-		70	0,20	N.D.
Carbofuran *	-		70	0,10	N.D.
Volatile Organic Compounds (VOC)					
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	-		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 ¹	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-Isopropyltoluene	-		-	0,06	N.D.
Benzene	5		0,5	0,06	N.D.
Bromobenzene	-		-	0,06	N.D.
Bromochloromethane	-		-	0,06	N.D.
Bromoform - Pointe-Claire	-		See Note 3	0,06	N.D.
Bromoform - Dollard-des-Ormeaux				0,06	N.D.
Bromoform - Beaconsfield				0,06	N.D.
Bromoform - Kirkland				0,06	N.D.
Bromoform - Baie d'Urfée				0,06	N.D.
Bromodichloromethane - Pointe-Claire	-		See Note 3	0,06	11,70
Bromodichloromethane - Dollard-des-Ormeaux				0,06	8,60
Bromodichloromethane - Beaconsfield				0,06	13,00
Bromodichloromethane - Kirkland				0,06	10,10
Bromodichloromethane - Baie d'Urfée				0,06	10,40

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					MAXIMUM DETECTED (µg/L)
Volatile Organic Compounds (VOC)					
Bromomethane	-		-	0,06	N.D.
Chlorobenzene	-		60	0,06	N.D.
Chlorodibromomethane - Pointe-Claire	-		See Note 3	0,06	1,40
Chlorodibromomethane - Dollard-des-Ormeaux				0,06	1,30
Chlorodibromomethane - Beaconsfield				0,06	1,90
Chlorodibromomethane - Kirkland				0,06	1,10
Chlorodibromomethane - Baie d'Urfée				0,06	1,10
Chloroethane				-	
Chloroform - Pointe-Claire	-		See Note 3	0,06	78,00
Chloroform - Dollard-des-Ormeaux				0,06	73,60
Chloroform - Beaconsfield				0,06	69,90
Chloroform - Kirkland				0,06	56,20
Chloroform - Baie d'Urfée				0,06	77,60
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 ¹	-	0,06	N.D.
Hexachlorobutadiene	-		-	0,06	N.D.
Isopropylbenzene	-		-	0,06	N.D.
MTBE(methyl tert-butyl ether)	-	15 ¹	-	0,06	N.D.
m-Xylene + p-Xylene + o-Xylene	90	20 ¹	-	0,06	0,27
Naphthalene	-		-	0,06	N.D.
n-Butylbenzene	-		-	0,06	N.D.
n-Propylbenzene	-		-	0,06	N.D.
sec-Butylbenzene	-		-	0,06	N.D.
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 ¹	-	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.

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					MAXIMUM DETECTED (µg/L)
Volatile Organic Compounds (VOC)					
Trihalomethanes (THM) (Total) ⁶ - Pointe-Claire	-		See Note 3	0,24	95,00
Trihalomethanes (THM) (Total) ⁶ - Dollard-des-Ormeaux				0,24	82,80
Trihalomethanes (THM) (Total) ⁶ - Beaconsfield				0,24	81,80
Trihalomethanes (THM) (Total) ⁶ - Kirkland				0,24	67,40
Trihalomethanes (THM) (Total) ⁶ - Baie d'Urfée				0,24	88,80
Trihalomethanes (THM) (total) - Pointe-Claire Annual mean concentration	100		80 ³	0,24	70,88
Trihalomethanes (THM) (total) - Dollard-des-Ormeaux Annual mean concentration				0,24	52,70
Trihalomethanes (THM) (total) - Beaconsfield Annual mean concentration				0,24	60,78
Trihalomethanes (THM) (total) - Kirkland Annual mean concentration				0,24	57,73
Trihalomethanes (THM) (total) - Baie d'Urfée Annual mean concentration				0,24	67,40
Phenolic Compounds					
2,3,4,6-Tetrachlorophenol *	-	-	70	0,50	N.D.
2,4 -Dichlorophenol *	-	-	700	0,50	N.D.
2,4,6-Trichlorophenol *	5	2 ¹	5	0,50	N.D.
Pentachlorophenol *	60	30 ¹	42	0,50	N.D.
Glyphosate					
Glyphosate *	280		210	10,00	N.D.
Polycyclic Aromatic Hydrocarbons (PAH)					
Benzo(a)pyrene *	0,04		0,01	0,002	N.D.
Triazine Herbicides					
Atrazine and metabolites *	5		3,5	0,10	N.D.
Cyanazine *	-		9	0,10	N.D.
Metribuzine *	80		60	0,10	N.D.
Simazine *	-		9	0,10	N.D.

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				MAXIMUM DETECTED (µg/L)
Chlorophenoxy Acid and Trichloroacetate Pesticides				
2,4-D *	100	70	0,10	N.D.
Dicamba *	110	85	0,10	N.D.
Dinoseb *	-	7	0,10	N.D.
Picloram *	-	140	0,10	N.D.
Organochlorine Pesticides				
Metolachlor *	-	35	0,10	N.D.
Methoxychlor *	-	700	0,05	N.D.
Trifluralin *	-	35	0,10	N.D.
Organophosphorus Pesticides				
Azinphos-methyl *	-	17	0,10	N.D.
Chlorpyrifos *	90	70	0,05	N.D.
Diazinon *	-	14	0,10	N.D.
Dimethoate *	20	14	0,10	N.D.
Diuron *	-	110	0,50	N.D.
Malathion *	190	140	0,10	N.D.
Parathion *	-	35	0,10	N.D.
Phorate *	-	1,4	0,10	N.D.
Terbufos *	-	0,5	0,10	N.D.
Others				
Bromoxynil *	30	3,5	0,10	N.D.
Methyl-Diclofop *	-	7	0,10	N.D.
Diquat *	50	50	1,00	N.D.
Paraquat *	-	7	1,00	N.D.

- *: 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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				CONCENTRATION		
				MIN.	AVE.	MAX.
Copper and Lead (mg/l)						
Pointe-Claire Network						
Copper (Cu)	≤2,0	≤1.0 ¹	≤1.0	0,01100	0,06311	0,18800
Lead (Pb)	≤0.005		≤0.005	0,00008	0,00044	0,00104
Dollard-Des-Ormeaux Network						
Copper (Cu)	≤2,0	≤1.0 ¹	≤1.0	0,00000	0,00000	0,00000
Lead (Pb)	≤0.005		≤0.005	0,00007	0,00048	0,00143
Beaconsfield Network						
Copper (Cu)	≤2,0	≤1.0 ¹	≤1.0	0,01240	0,08211	0,27200
Lead (Pb)	≤0.005		≤0.005	0,00013	0,00093	0,00544
Krikland Network						
Copper (Cu)	≤2,0	≤1.0 ¹	≤1.0	0,00809	0,03244	0,09610
Lead (Pb)	≤0.005		≤0.005	0,00006	0,00035	0,00116
Baie d'Urfée Network						
Copper (Cu)	≤2,0	≤1.0 ¹	≤1.0	0,01100	0,04044	0,12300
Lead (Pb)	≤0.005		≤0.005	0,00006	0,00034	0,00095

- 8: When less than 21 water samples are taken over a period of 30 consecutive days, only one of these samples may have presence of total coliforms. It have been respected in 2022
- 9: There is no requirement for annual average. It is used only as a reference. For all year long, monthly average have been respected