



2024 Blazer Water Treatment Plant Summary

Blazer Treated Water (Entering the Distribution System)						
Parameter	Units	Winter (Feb 2024)	Summer (Aug 2024)	Average	Guideline	Common Source
Aluminum	mg/L	0.0804	0.303	0.192	< 0.100 OG Annual Avg.	Naturally occurring and plant treatment process chemicals
Ammonia	mg/L as N	<0.0050	0.0799	<0.0425	No Maximum	Naturally occurring; released agricultural or industrial wastes
Antimony	mg/L	<0.00010	<0.00010	<0.00010	0.006 MAC	Erosion of natural deposits in watershed
Arsenic	mg/L	0.00010	0.00014	0.00012	0.01 ALARA	Erosion of natural deposits in watershed
Atrazine + metabolites	mg/L	<0.00010	<0.00010	<0.00010	0.005 MAC	Leaching and/or runoff from agricultural use
Barium	mg/L	0.0390	0.0333	0.0362	2 MAC	Erosion of natural deposits in watershed
Benzene	mg/L	<0.00050	<0.00050	<0.00050	0.005 MAC	Releases or spills from industrial use
Benzo(a)pyrene	mg/L	<0.0000050	<0.0000050	<0.0000050	0.00004 MAC	Distribution system materials
Boron	mg/L	<0.010	<0.010	<0.010	5 MAC	Naturally occurring; leaching or runoff from industrial use
Bromate	mg/L	0.00043	<0.00033	<0.00038	0.01 MAC	Possible contamination in hypochlorite solution
Bromoxynil	mg/L	<0.000050	<0.000050	<0.000050	0.005 MAC	Leaching and/or runoff from agricultural use
Cadmium	mg/L	<0.0000050	<0.0000050	<0.0000050	0.007 MAC	Erosion of natural deposits in watershed
Calcium	mg/L	50.2	39.6	44.9	No Maximum	Erosion of natural deposits in watershed
Carbon tetrachloride	mg/L	<0.00050	<0.00050	<0.00050	0.002 MAC	Industrial effluents and leaching from hazardous waste sites
Chloramines	mg/L	<0.20	<0.20	<0.20	No Maximum	Formed in the presence of both chlorine and ammonia
Chloride	mg/L	4.87	4.88	4.88	≤250 AO	Naturally occurring, dissolved salt deposits, highway salt
Chlorpyrifos	mg/L	<0.00010	<0.00010	<0.00010	0.09 MAC	Leaching and/or runoff from agricultural use
Chromium	mg/L	<0.00050	<0.00050	<0.00050	0.05 MAC	Erosion of natural deposits in watershed
Colour	CU	<2.0	<5.0	<2.0	15 AO	Erosion of natural deposits in watershed
Coliforms, E. Coli	PA/100mL	Absent	Absent	Absent	0 MAC	Domestic animals, wildlife, human waste
Coliforms, Total	PA/100mL	Absent	Absent	Absent	0 MAC	Soil, domestic animals and wildlife
Copper	mg/L	0.00090	<0.00050	<0.00070	2 MAC	Erosion of natural deposits in watershed
Cyanazine	mg/L	<0.00010	<0.00010	<0.00010	No Maximum	Leaching and/or runoff from agricultural use
Cyanide	mg/L	<0.0050	<0.100	<0.100	0.2 MAC	Industrial and mining effluents; release from organic compounds
Cyanobacterial Toxins (as Microcystin, Total)	mg/L	<0.00020	<0.00020	<0.00020	0.0015 MAC	Naturally occurring; released from blooms of blue-green algae
Diazinon	mg/L	<0.0000250	<0.000125	<0.000125	0.02 MAC	Run off from agricultural or other uses
Diazomethane	mg/L	<0.00010	<0.00010	<0.00010	0.12 MAC	Leaching and/or runoff from agricultural use
1,2-Dichlorobenzene	mg/L	<0.00050	<0.00050	<0.00050	0.2 MAC	Releases or spills from industrial use
1,4-Dichlorobenzene	mg/L	<0.00050	<0.00050	<0.00050	0.005 MAC	Releases or spills from industrial use
1,2-Dichloroethane	mg/L	<0.00050	<0.00050	<0.00050	0.005 MAC	Releases or spills from industrial use
Dichloromethane	mg/L	<0.0010	<0.0010	<0.0010	0.05 MAC	Industrial and municipal wastewater discharges
2,4-Dichlorophenol	mg/L	<0.00030	<0.00020	<0.00030	0.9 MAC	By-product of chlorination
2,4-D (2,4-Dichlorophenoxy acetic acid)	mg/L	<0.000050	<0.000050	<0.000050	0.1 MAC	Leaching and/or runoff from use as a weed controller
Dicofolop-methyl	mg/L	<0.00010	<0.00010	<0.00010	0.009 MAC	Leaching and/or runoff from use as a weed controller
Dimethoate	mg/L	<0.00050	<0.00050	<0.00050	0.02 MAC	Leaching and/or runoff from agricultural use
Duron	mg/L	<0.00050	<0.00050	<0.00050	0.15 MAC	Leaching and/or runoff from use in controlling vegetation
Ethylbenzene	mg/L	<0.00050	<0.00050	<0.00050	0.14 MAC	Emissions, effluents or spills from petroleum and chemical industries
Fluoride ¹	mg/L	0.134	0.094	0.114	1.5 MAC	Erosion of natural deposits in watershed
Glyphosate	mg/L	<0.00020	<0.00020	<0.00020	0.28 MAC	Leaching and/or runoff from use as a weed controller
Halooacetic Acid, Total	mg/L	0.00542	0.01290	0.00916	0.08 ALARA	By-product of chlorination
Hardness, Total	mg/L as CaCO ₃	190	152	171	No Maximum	Erosion of natural deposits in watershed
Iron	mg/L	<0.010	<0.010	<0.010	≤0.300 AO	Erosion of natural deposits in watershed
Lead	mg/L	<0.000050	<0.000050	<0.000050	0.005 ALARA	Leaching from plumbing (pipes, solder, brass fittings, lead service lines)
Magnesium	mg/L	15.6	12.8	14.2	No Maximum	Erosion of natural deposits in watershed
Malathion	mg/L	<0.0000250	<0.0000250	<0.0000250	0.19 MAC	Leaching and/or runoff from agricultural and other uses
Manganese	mg/L	0.00021	0.00013	0.00017	0.12 MAC	Erosion of natural deposits in watershed
Mercury	mg/L	<0.0000050	<0.0000050	<0.0000050	0.001 MAC	Erosion of natural deposits in watershed
Methoxychlor	mg/L	<0.0000080	<0.0000080	<0.0000080	No Maximum	Leaching and/or runoff from agricultural and other uses
Metolachlor	mg/L	<0.0000250	<0.000125	<0.000125	0.05 MAC	Leaching and/or runoff from agricultural and other uses
Metribuzin	mg/L	<0.00010	<0.00010	<0.00010	0.08 MAC	Leaching and/or runoff from agricultural use
Monochlorobenzene	mg/L	<0.00050	<0.00050	<0.00050	0.08 MAC	Releases or spills from industrial effluents
Nitrate	mg/L as N	0.168	0.115	0.142	10 (as N) MAC	Erosion of natural deposits in watershed
Nitrite	mg/L as N	<0.010	<0.010	<0.010	1 (as N) MAC	Erosion of natural deposits in watershed
Nitritriacetic Acid (NTA)	mg/L	<0.40	<0.40	<0.40	0.40 MAC	Sewage contamination
Pentachlorophenol	mg/L	<0.00050	<0.00050	<0.00050	0.06 MAC	By-product of chlorination
pH	pH units	8.26	8.17	8.22	7-10.5 MAC	Influenced by dissolved minerals in water, temp, and treatment process
Picloram	mg/L	<0.00010	<0.00010	<0.00010	0.19 MAC	Leaching and/or runoff from agricultural and other uses
Selenium	mg/L	0.000620	0.000477	0.000549	0.05 MAC	Naturally occurring (erosion and weathering of rocks and soils)
Silver	mg/L	<0.000010	<0.000010	<0.000010	No Maximum	Naturally occurring (erosion and weathering of rocks and soils)
Simazine	mg/L	<0.00010	<0.00010	<0.00010	0.01 MAC	Leaching and/or runoff from agricultural and other uses
Sodium	mg/L	4.74	3.48	4.11	≤200 AO	Erosion of natural deposits in watershed
Sulphate (Sulfate)	mg/L	54.0	38.4	46.2	≤500 AO	Erosion of natural deposits in watershed
Sulphide as S	mg/L	<0.0015	<0.0015	<0.0015	≤0.05 AO	Reduction of sulphates by sulphate-reducing bacteria; industrial wastes
Terbufos	mg/L	<0.00050	<0.00050	<0.00050	0.001 MAC	Leaching and/or runoff from agricultural and other uses
Tetrachloroethylene	mg/L	<0.00050	<0.00050	<0.00050	0.01 MAC	Industrial effluents or spills
2,3,4,6-Tetrachlorophenol	mg/L	<0.00050	<0.00050	<0.00050	0.1 MAC	By-product of chlorination; industrial effluents and use of pesticides
Toluene	mg/L	<0.00040	<0.00040	<0.00040	0.06 MAC	Emissions, effluents or spills from petroleum and chemical industries
Total Dissolved Solids	mg/L	144	204	174	500 AO	Erosion of natural deposits in watershed
Total Organic Carbon	mg/L	<0.50	0.81	<0.65	No Maximum	Erosion of natural deposits in watershed
Trichloroethylene	mg/L	<0.00050	<0.00050	<0.00050	0.005 MAC	Industrial effluents and spills from improper disposals
2,4,6-Trichlorophenol	mg/L	<0.00050	<0.00050	<0.00050	0.005 MAC	By-product of chlorination; industrial effluents and spills
Trifluralin	mg/L	<0.00010	<0.00010	<0.00010	0.045 MAC	Runoff from agricultural uses
Trichloromethanes, Total	mg/L	0.0077	0.0160	0.0119	0.1 MAC	By-product of chlorination
Uranium	mg/L	0.000551	0.000491	0.000521	0.02 MAC	Industrial effluents or spills
Vinyl chloride	mg/L	<0.00040	<0.00040	<0.00040	0.002 ALARA	Industrial effluents; degradation product from organic solvents in groundwater; leaching from PVC pipes
Xylenes (total)	mg/L	<0.00050	<0.00050	<0.00050	0.09 MAC	Emissions, effluents or spills from petroleum and chemical industries
Zinc	mg/L	<0.0030	<0.0030	<0.0030	≤5.000 AO	Erosion of natural deposits in watershed/leaching from plumbing fixtures

Legend

¹ Fluoride is not added at the Blazer Water Treatment Plant

(AO) Aesthetic Objective as determined by Health Canada

(ALARA) As Low As Reasonably Achievable as determined by Health Canada

(OG) Operating guidance as determined by Health Canada

(MAC) Maximum Acceptable Concentration as determined by Health Canada

< Indicates not detected above the specified parameter (less than)

mg/L = milligrams per litre, or parts per million

TCU = True Colour Units

PA = Present or Absent

Links

[Health Canada Guidelines for Canadian Drinking Water Quality, Summary Table \(Sept 2020\)](#)

[Health Canada Water Quality - Reports and Publications](#)

[Alberta Environment and Parks](#)

[Potable Water Regulation](#)