ROCKY VIEW COUNTY

2025 Bragg Creek Water Treatment Plant Summary

January 1, 2025 to December 31, 2025 *Analysis isn't completed until the end of the calendar year*

		Bragg Creek Treated Water (Entering the Distribution System)				
Parameter	**Units**	**Winter**	**Summer**	**Average**	**Maximum Acceptable Concentration or Guideline[1]**	**Common Source**
Aluminum	mg/L	0.0230	0.0140	0.0185	< 0.100 (O) Annual Avg	Naturally occurring and plant treatment process chemicals
Ammonia	mg/L as N	<0.05	<0.05	<0.05	No Guidelines	Naturally occurring; released agricultural or industrial wastes
Antimony	mg/L	<0.0006	<0.0006	<0.0006	0.006	Erosion of natural deposits in watershed
Arsenic	mg/L	< 0.00008	0.0001	0.00009	0.01	Erosion of natural deposits in watershed
Atrazine + Metabolites	mg/L	<0.001	<0.001	<0.001	0.005	Leaching and/or runoff from agricultural use
Barium	mg/L	0.0570	0.0950	0.0760	2	Erosion of natural deposits in watershed
Benzene	mg/L	<0.001	<0.001	<0.001	0.005	Releases or spills from industrial use
Benzo(a)pyrene	mg/L	< 0.000005	< 0.000005	< 0.000005	0.00004	Distribution system materials
Boron	mg/L	<0.03	<0.03	<0.03	5	Naturally occurring; leaching or runoff from industrial use
Bromate	mg/L	<0.005	<0.005	<0.005	0.01	Possible contamination in hypochlorite solution
Bromoxynil	mg/L	<0.002	<0.002	<0.002	0.005	Leaching and/or runoff from agricultural use
Cadmium	mg/L	<0.00004	<0.00004	<0.00004	0.007	Erosion of natural deposits in watershed
Calcium	mg/L	66.2	116.3	91.3	No Guidelines	Erosion of natural deposits in watershed
Carbon Tetrachloride	mg/L	<0.0005	<0.0005	<0.0005	0.002	Industrial effluents and leaching from hazardous waste sites
Chloramines	mg/L	0.09	0.08	0.09	3	Formed in the presence of both chlorine and ammonia
Chlorate	mg/L	0.18	< 0.05	0.12	1	By-product of drinking water disinfection with chlorine dioxide
Chlorite	mg/L	< 0.05	< 0.05	< 0.05	1	By-product of drinking water disinfection with chlorine dioxide
Chloride	mg/L	3.8	35.9	19.9	≤250 (A)	Naturally occurring, dissolved salt deposits, highway salt
Chlorpyrifos	mg/L	<0.002	<0.002	<0.002	0.09	Leaching and/or runoff from agricultural use
Chromium	mg/L	<0.0008	<0.0008	<0.0008	0.05	Erosion of natural deposits in watershed
Colour	TCU	<4	<4	<4	15 (A)	Erosion of natural deposits in watershed
Coliforms, *E.Coli*	MPN/100mL	Absent	Absent	Absent	Absent	Domestic animals, wildlife, human waste
Coliforms, Total	MPN/100mL	Absent	Absent	Absent	Absent	Soil, domestic animals and wildlife
Copper	mg/L	0.00470	0.00240	0.00355	2, <1 (A)	Erosion of natural deposits in watershed
Cyanide	mg/L	<0.003	<0.003	<0.003	0.2	Industrial and mining effluents; Release from organic compounds
Cyanobacterial Toxins - As Microcystin, Total	mg/L	<0.00015	<0.00015	<0.00015	0.0015	Naturally occurring; released from blooms of blue-green algae
Dicamba	mg/L	<0.002	<0.002	<0.002	0.12	Leaching and/or runoff from agricultural use
1,4-Dichlorobenzene	mg/L	<0.0005	<0.0005	<0.0005	0.005	Releases or spills from industrial use
1,2 Dichloroethane	mg/L	<0.002	<0.002	<0.002	0.005	Releases or spills from industrial use
Dichloromethane	mg/L	<0.002	<0.002	<0.002	0.05	Industrial and municipal wastewater discharges
2,4 D (2,4-Dichlorophenoxy acetic acid)	mg/L	<0.002	<0.002	<0.002	0.1	Leaching and/or runoff from use as a weed controller
Dimethoate	mg/L	<0.002	<0.002	<0.002	0.02	Leaching and/or runoff from agricultural use
1,4-Dioxane	mg/L	<0.001	<0.001	<0.001	0.05	Potential contamination from landfills and industrial sites
Diquat	mg/L	<0.007	<0.007	<0.007	0.05	Leaching and/or runoff from agricultural use; added directly to water to control aquatic weeds
Ethylbenzene	mg/L	<0.001	<0.001	<0.001	0.14	Emissions, effluents or spills from petroleum and chemical industries
Fluoride[2]	mg/L	0.40	0.15	0.28	1.5	Erosion of natural deposits in watershed
Glyphosate	mg/L	<0.02	<0.02	<0.02	0.28	Leaching and/or runoff from use as a weed controller
Haloacetic Acid, Total	mg/L	0.0240	0.0400	0.0320	0.08 Annual Avg	By-product of chlorination
Hardness, Total	mg/L as $CaCO_3$	237	379	308	No Guidelines	Erosion of natural deposits in watershed
Iron	mg/L	<0.02	0.02	0.02	≤0.300 (A)	Erosion of natural deposits in watershed
Lead	mg/L	<0.0003	<0.0003	<0.0003	0.005	Leaching from plumbing (pipes, solder, brass fittings, lead service lines)
Magnesium	mg/L	17.3	21.5	19.40	No Guidelines	Erosion of natural deposits in watershed
Malathion	mg/L	<0.002	<0.002	<0.002	0.19	Leaching and/or runoff from agricultural and other uses
Manganese	mg/L	<0.005	<0.005	<0.005	0.12, ≤0.02(A)	Erosion of natural deposits in watershed
Mercury	mg/L	<0.000001	<0.000001	<0.000001	0.001	Erosion of natural deposits in watershed
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/L	<0.002	<0.002	<0.002	0.35	Leaching and/or runoff from agricultural uses
Metribuzin	mg/L	<0.002	<0.002	<0.002	0.08	Leaching and/or runoff from agricultural use
Nitrate	mg/L as N	0.165	0.687	0.426	10 (as N)	Erosion of natural deposits in watershed
Nitrite	mg/L as N	<0.005	<0.005	<0.005	1 (as N)	Erosion of natural deposits in watershed
Nitrilotriacetic Acid (NTA)	mg/L	<0.4	<0.4	<0.4	0.4	Sewage contamination
N-Nitrosodimethylamine (NDMA)	mg/L	<0.000034	<0.000034	<0.000034	0.00004	By-product of drinking water disinfection with chlorine or chloramines; industrial and sewage treatment plant effluents

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Pentachlorophenol	mg/L	<0.002	<0.002	<0.002	0.06	By-product of chlorination
pH	pH units	7.70	7.10	7.40	7 - 10.5 (O)	Influenced by dissolved minerals in water, temp, and treatment process
Selenium	mg/L	0.0009	<0.0006	0.00075	0.05	Naturally occurring (erosion and weathering of rocks and soils)
Silver	mg/L	<0.00007	<0.00007	<0.00007	No Guidelines	Naturally occurring (erosion and weathering of rocks and soils)
Sodium	mg/L	5.0	26.7	15.85	≤200 (A)	Erosion of natural deposits in watershed
Strontuim	mg/L	<0.001	0.35	0.18	7	Erosion of natural deposits in watershed
Sulphate	mg/L	87.0	69.1	78.1	≤500 (A)	Erosion of natural deposits in watershed
Sulphide	mg/L	<0.01	<0.01	<0.01	≤0.05 (A)	Reduction of sulphates by sulphate-reducing bacteria; industrial wastes
Tetrachloroethylene	mg/L	<0.001	<0.001	<0.001	0.01	Industrial effluents or spills
Toluene	mg/L	<0.005	<0.005	<0.005	0.06	Emissions, effluents or spills from petroleum and chemical industries
Total Dissolved Solids	mg/L	265	445	355	500 (A)	Erosion of natural deposits in watershed
Total Organic Carbon	mg/L	<0.50	5.53	3.02	No Guidelines	Erosion of natural deposits in watershed
Trichloroethylene	mg/L	<0.003	<0.003	<0.003	0.005	Industrial effluents and spills from improper disposals
2,4,6-Trichorophenol	mg/L	<0.002	<0.002	<0.002	0.005	By-product of chlorination; industrial effluents and spills
Trihalomethanes, Total	mg/L	0.007	0.059	0.0330	0.1 Annual Avg	By-product of chlorination
Uranium	mg/L	0.000130	<0.00005	0.000090	0.02	Industrial effluents or spills
Vinyl Chloride	mg/L	<0.001	<0.001	<0.001	0.002	Industrial effluents; degradation product from organic solvents in groundwater; leaching from PVC pipes
Xylenes, Total	mg/L	<0.003	<0.003	<0.003	0.09	Emissions, effluents or spills from petroleum and chemical industries
Zinc	mg/L	<0.007	<0.007	<0.007	≤5.000 (A)	Erosion of natural deposits in watershed/leaching from plumbing fixtures

Legend

[1] Maximum acceptable concentrations and guidelines as determined by Health Canada and the Alberta Environment and Parks license to operate

[2] Fluoride is not added at this location

(O) Operating guidance as determined by Health Canada

(A) Aesthetic Objective as determined by Health Canada

(AEP) Alberta Environment and Parks provincial guideline

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

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

TCU = True Colour Units

MPN = Most Probable Number

TCU = True Colour Units

MPN = Most Probable Number

Links

Health Canada Guidelines for Canadian Drinking Water Quality, Summary Table (March 2025)

Health Canada Water Quality - Reports and Publications

Alberta Environment and Parks