



2025 Cochrane Lakes Water Treatment Plant Summary

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

| Cochrane Lakes WTP Treated Water (Entering the Distribution System) | | | | | | |
|--|---------------------------|------------|------------|-----------|--|--|
| Parameter | Units | Winter | Summer | Average | Maximum Acceptable Concentration or Guideline ¹ | Common Source |
| Aluminum | mg/L | 0.107 | 0.179 | 0.1430 | < 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 | 0.00062 | 0.00049 | 0.00056 | 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 | 0.0970 | 0.0890 | 0.0880 | 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 | 46.1 | 40.6 | 43.4 | 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 | 0.16 | 0.07 | 0.12 | 3 | Formed in the presence of both chlorine and ammonia |
| Chloride | mg/L | 13.59 | 19.12 | 16.4 | ≤250 (A) | Naturally occurring, dissolved salt deposits, highway salt |
| Chlorate | mg/L | 0.14 | 0.10 | 0.1 | 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 |
| 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, <i>E.Coli</i> | MPN/100mL | Absent | Absent | Absent | 0 | Domestic animals, wildlife, human waste |
| Coliforms, Total | MPN/100mL | Absent | Absent | Absent | 0 | Soil, domestic animals and wildlife |
| Copper | mg/L | 0.01200 | 0.01580 | 0.01390 | 2, <1 (A) | Erosion of natural deposits in watershed |
| Cyanazine | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | Leaching and/or runoff from agricultural use |
| 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 |
| Diazinon | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | Run off from agricultural or other uses |
| Dicamba | mg/L | <0.002 | <0.002 | <0.002 | 0.12 | Leaching and/or runoff from agricultural use |
| 1,2-Dichlorobenzene | mg/L | <0.0005 | <0.0005 | <0.0005 | No Guidelines | Releases or spills from industrial 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-Dichlorophenol | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | By-product of chlorination |
| 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 |
| Diclofop-methyl | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | 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 |
| Diuron | mg/L | <0.003 | N/A | N/A | No Guidelines | Leaching and/or runoff from use in controlling vegetation |
| Ethylbenzene | mg/L | <0.001 | <0.001 | <0.001 | 0.14 | Emissions, effluents or spills from petroleum and chemical industries |
| Fluoride ² | mg/L | 0.19 | 0.1 | 0.145 | 1.5 | Erosion of natural deposits in watershed |
| Glyphosate | mg/L | <0.020 | <0.020 | <0.020 | 0.28 | Leaching and/or runoff from use as a weed controller |
| Haloacetic Acid, Total | mg/L | 0.024 | 0.033 | 0.0240 | 0.08 Annual Avg | By-product of chlorination |
| Hardness, Total | mg/L as CaCO ₃ | 200 | 181.4 | 190.7 | No Guidelines | Erosion of natural deposits in watershed |
| Iron | mg/L | < 0.02 | < 0.02 | <0.02 | ≤0.100 (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 | 20.6 | 19.4 | 20 | 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 | 0.007 | 0.006 | 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 |
| Methoxychlor | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | Leaching and/or runoff from agricultural and other uses |
| 2-Methyl-4-chlorophenoxyacetic acid (MCPA) | mg/L | < 0.002 | < 0.002 | < 0.002 | 0.35 | Leaching and/or runoff from agricultural uses |
| Methyl tertiary-butyl ether (MTBE) | mg/L | <0.004 | <0.004 | <0.004 | <0.015 (A) | Spills from gasoline refineries, filling stations and gasoline-powered boats |

| | | | | | | |
|--|-----------|------------|------------|------------|---------------------------------|---|
| Metolachlor | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | Leaching and/or runoff from agricultural and other uses |
| Metribuzin | mg/L | < 0.002 | < 0.002 | <0.002 | 0.08 | Leaching and/or runoff from agricultural use |
| Monochlorobenzene | mg/L | <0.001 | <0.001 | <0.001 | No Guidelines | Releases or spills from industrial effluents |
| Nitrate | mg/L as N | 0.023 | < 0.010 | 0.0165 | 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 |
| 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 |
| Nitritotriacetic Acid (NTA) | mg/L | < 0.4 | < 0.4 | <0.4 | 0.4 | Sewage contamination |
| Pentachlorophenol | mg/L | < 0.002 | < 0.002 | <0.002 | 0.06 | By-product of chlorination |
| Per- and polyfluoroalkyl substances (PFAS) | mg/L | < 0.000002 | < 0.000002 | < 0.000002 | 0.00003 (O) | Synthetic chemicals used in consumer products and fire-fighting foams |
| pH | pH units | 7.70 | 7.60 | 7.65 | 7 - 10.5 (O) 6.5 - 8.5 (AEP) | Influenced by dissolved minerals in water, temp, and treatment process |
| Picloram | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | Leaching and/or runoff from agricultural and other uses |



2025 Cochrane Lakes Water Treatment Plant Summary

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

| Cochrane Lakes WTP Treated Water (Entering the Distribution System) | | | | | | |
|--|-------|-----------|-----------|-----------|--|---|
| Parameter | Units | Winter | Summer | Average | Maximum Acceptable Concentration or Guideline ¹ | Common Source |
| Selenium | mg/L | 0.001 | < 0.0006 | 0.001 | 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) |
| Simazine | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | Leaching and/or runoff from agricultural and other uses |
| Sodium | mg/L | 9.300 | 8.600 | 8.950 | ≤200 (A) | Erosion of natural deposits in watershed |
| Strontium | mg/L | 0.285 | 0.283 | 0.284 | 7 | Erosion of natural deposits in watershed |
| Sulphate | mg/L | 49.030 | 45.640 | 47.335 | ≤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 |
| Terbufos | mg/L | <0.0005 | <0.0005 | <0.0005 | No Guidelines | Leaching and/or runoff from agricultural and other uses |
| Tetrachloroethylene | mg/L | < 0.001 | < 0.001 | < 0.001 | 0.01 | Industrial effluents or spills |
| 2,3,4,6-Tetrachlorophenol | mg/L | < 0.002 | < 0.002 | < 0.002 | No Guidelines | By-product of chlorination; industrial effluents and use of pesticides |
| Toluene | mg/L | < 0.0005 | < 0.0005 | < 0.0005 | 0.06 | Emissions, effluents or spills from petroleum and chemical industries |
| Total Dissolved Solids | mg/L | 228.000 | 208.000 | 218.000 | 500 (A) | Erosion of natural deposits in watershed |
| Total Organic Carbon | mg/L | 1.650 | 3.280 | 2.465 | No Guidelines | Erosion of natural deposits in watershed |
| Trichloroethylene | mg/L | < 0.0003 | < 0.0003 | < 0.0003 | 0.005 | Industrial effluents and spills from improper disposals |
| 2,4,6-Trichlorophenol | mg/L | < 0.002 | < 0.002 | < 0.002 | 0.005 | By-product of chlorination; industrial effluents and spills |
| Trifluralin | mg/L | <0.002 | <0.002 | <0.002 | No Guidelines | Runoff from agricultural uses |
| Trihalomethanes, Total | mg/L | 0.041 | 0.050 | 0.046 | 0.1 Annual Avg | By-product of chlorination |
| Uranium | mg/L | 0.001 | 0.000 | 0.001 | 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 |

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

Links

[Health Canada Guidelines for Canadian Drinking Water Quality, Summary Table \(March 2025\)](#)

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

[Alberta Environment and Parks](#)