

Mabel Lake Intake Water Quality 2022

Water System:	Mabel Lake Water Utility
Source:	Mabel Lake Intake
Sampling Point:	Mabel Lake Intake
Date of Sample:	5/17/2022



		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Chloride	N/A		<250
Fluoride	<0.1	1.5	
Nitrate (As N)	0.083	10	
Nitrite (as N)	<0.01	1	
Sulphate	7		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Alkalinity, Bicarbonate (as CaCO ₃)	63.5	N/A	
Alkalinity, Carbonate (as CaCO ₃)	<1.0	N/A	
Alkalinity, Hydroxide (as CaCO ₃)	<1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO ₃)	<1.0	N/A	
Alkalinity, Total (as CaCO ₃)	63.5	N/A	
Carbon, Dissolved Organic	1.86	N/A	
Carbon, Total Organic	2.44	N/A	
Chlorophyll a	<1.0	N/A	
Colour, True (CU)	N/A		≤15
Conductivity (umho/cm)	104	N/A	
Cyanide, Total	<0.0020	0.2	
pH	6.82	7.0 - 10.5	
Phosphorus, Total (as P)	<0.05	N/A	
Phosphorus, Total Dissolved	<0.005	N/A	
Turbidity (NTU)	0.20		OG <1
UV Transmittance @ 254nm (%)	90.8	N/A	
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Hardness, Total	47.2	N/A	
Total Dissolved Solids	73		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum, total	0.0075		OG ≤0.1
Antimony, total	<0.00020	0.006	
Arsenic, total	<0.00050	0.01	
Barium, total	0.009	2	
Boron, total	<0.0500	5	
Cadmium, total	<0.000010	0.005	
Calcium, total	15.6	N/A	
Chromium, total	<0.00050	0.05	
Cobalt, total	<0.00010	N/A	
Copper, total	0.00129		<1
Iron, total	0.031		≤0.3
Lead, total	<0.00020	0.005	
Magnesium, total	1.99	N/A	
Manganese, total	0.00083		≤0.02
Mercury, total	<0.00001	0.001	
Molybdenum, total	0.00073	N/A	
Nickel, total	<0.00040	N/A	
Potassium, total	0.86		
Selenium, total	<0.00050	0.05	
Sodium, total	1.32		≤200
Strontium, total	0.0742		
Uranium, total	0.000351	0.02	
Zinc, total	<0.0040		≤5

Notes: No current Guideline ; Reference Health Canada
 Hardness - no guideline - *Hardness Levels between 80 and 100 mg/L as CaCo3 are considered acceptable; levels greater than 200 are considered poor but can be tolerated; those in excess of 500 are normally considered unacceptable.
 Turbidity - 1 NTU when disinfection required; <5 NTU aesthetic clarity
 "<" = less than detection limit shown
 ">" = greater than upper range limit shown
 "<" = less than number shown (Detected)
 ">" = greater than number shown (Detected)
 * Criteria Exceeded