


Silver Star Water Utility Comprehensive Summary

Location	Well #1	Well #2	Well #3	Paradise Reservoir	Vance Reservoir	 REGIONAL DISTRICT NORTH OKANAGAN	
Year Tested	2021	2021	2021	2021	2021		
Date Tested	17-Feb	17-Feb	17-Feb	22-Feb	22-Feb		
	Ground Water			Surface Water Reservoirs		Guidelines for Canadian Drinking Water Quality	
INORGANIC	Results (mg/L unless noted)					Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum (total)	<0.0050	0.0064	<0.0050	0.0052	<0.0050	no current guideline	
Antimony (total)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.006	
Arsenic (total)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.01	
Barium (total)	0.0122	0.0258	0.0285	0.0192	0.019	2	
Boron (total)	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	5	
Cadmium (total)	<0.000010	0.000042	0.000053	2.60E-04	0.000257	0.005	
Calcium (total)	49.2	50.7	84.9	26.4	26.3	no current guideline	
Chloride	0.17	1.02	33.10	<0.10	<0.10		<250
Chromium (total)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.05	
Cobalt (total)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		
Copper (total)	0.00054	0.00064	0.00098	0.00131	0.00079		<1.0
Cyanide (total)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.2	
Fluoride	<0.10	<0.10	<0.10	<0.10	<0.10	1.5	
Iron (total)	<0.010	<0.010	0.011	<0.010	<0.010		<0.30
Lead (total)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.01	
Magnesium (total)	3.09	6.27	12.6	2.48	2.3	N/A	
Manganese (total)	0.00070	<0.00020	0.00382	0.00237	0.00262		<0.05
Mercury (total)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.001	
Molybdenum (total)	0.00037	0.00463	0.00065	0.00032	0.00034	no current guideline	
Nickel (total)	<0.00040	<0.00040	0.00057	0.00112	0.00091		
Nitrate (as N)	0.054	0.017	<0.010	0.142	0.134	10	
Nitrite (as N)	<0.010	<0.010	<0.010	<0.010	<0.010	1	
Phosphorus (total)	<0.050	<0.050	<0.050	<0.050	<0.050		
Potassium (total)	1.15	2.66	1.38	0.46	0.42	no current guideline	
Selenium (total)	0.00181	0.0104	<0.00050	0.00213	0.00224	0.05	
Sodium (total)	1.41	2.17	13.7	0.56	0.52		<200
Strontium	0.395	0.396	2.18	0.171	0.165		
Sulphate	20.9	41.9	75.0	21.9	22		<500
Uranium (total)	0.000288	0.00163	0.00250	0.000078	0.000083	0.02	
Zinc (total)	<0.0040	0.0056	0.0999	0.0195	0.0115		<5.0
PHYSICAL	Results (mg/L unless noted)					Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Alkalinity (bicarbonate, as CaCO3)	126	125	165	63.4	64.1	no current guideline	
Alkalinity (carbonate, as CaCO3)	<1.0	<1.0	<1.0	<1.0	<1.0		
Alkalinity (hydroxide, as CaCO3)	<1.0	<1.0	<1.0	<1.0	<1.0		
Alkalinity (phenolphthalein, as CaCO3)	<1.0	<1.0	<1.0	<1.0	<1.0		
Alkalinity (total, as CaCO3)	126	125	165	63.4	64.1		
Colour (CU)	<5.0	<5.0	<5.0	<5.0	<5.0		<15 TCU
Conductivity (umho/cm)	233	270	523	160	158	no current guideline	
Hardness (total, as CaCO3)	136	152	264	76.3	75.3		see note
pH	7.73	8.05	7.92	7.61	7.63		7.0 - 10.5
Total dissolved solids / TDS	171	185	334	103	104		<500
Turbidity (NTU)	0.20	<0.10	0.20	0.31	0.34	1 NTU	<5 NTU

**During the ski season Silver Star water mainly surface water supplemented with some well water.
At other times the Silver Star Utility is 100% well water. The well water is a combination of the wells noted above.**

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