

Ross Houk, Vista Bonita Rec Association
 431 Orilla Del Lago
 Fort Collins, CO 80524

Soil, Water & Plant Testing Laboratory
 1120 Campus Delivery
 Fort Collins, CO 80523-1120
 Phone: 970-491-5061
 Email: soiltestinglab@colostate.edu

DOMESTIC WATER ANALYSIS

LAB Sample ID: 2022W236

Source: Surface - Lake Water

Date Received: 7/8/2022

Date Reported: 7/28/2022

CUSTOMER Sample ID: Cove

Water Parameters	Results	Drinking Water Guidelines
Electric Conductivity (EC) mmhos/cm	1.30	N/A
pH	8.37	6.5 to 8.5
	mg/L	mg/L
Calcium	90.43	N/A
Magnesium	4.954	N/A
Sodium	33.1	N/A
Potassium	1.604	N/A
Carbonate	2.42	N/A
Bicarbonate	148.6	N/A
Sulfate	284.5	≤250
Nitrate	<0.001	≤44.3
Nitrate-Nitrogen	<0.001	≤10
Nitrite	<0.001	<1
Nitrite-Nitrogen	<0.001	
Total Alkalinity		
as CaCO ₃	2.5	≤300
Total Hardness		
as CaCO ₃	226	≤120
Total Dissolved Solids		
	815	≤500

Water Parameters	Results	Drinking Water Guidelines
	mg/L	mg/L
Phosphorus	0.522	N/A
Iron	<0.001	≤0.3
Manganese	0.002	≤0.05
Zinc	<0.001	≤5.0
Copper	0.007	≤1.3
Boron	*	≤2.4
Aluminum	*	<0.2
Arsenic	*	≤0.01
Barium	*	≤2.0
Cadmium	*	≤0.005
Chromium	*	≤0.1
Fluoride	*	≤4.0
Lead	*	<0.15
Mercury	*	≤0.002
Molybdenum	*	≤0.07
Nickel	*	≤0.02
Selenium	*	≤0.05
Ammonium	*	N/A

* Not requested

COMMENTS:

This water is considered objectionable because it does not meet the SMCL of 250 mg/L for sulfate. Water with sulfate in excess of the SMCL may have a salty taste. Sulfate concentrations greater than 1000 mg/L may have a laxative effect.

This water is considered objectionable because it does not meet the upper limit guideline of 120 mg/L for hardness. Calcium and magnesium are the primary components of water hardness and are essential nutrients. High water hardness can result in scaling of bathtubs, water heaters, pipes, and other plumbing fixtures as well as soap not lathering well

This water is considered objectionable because it does not meet the SMCL of 500 mg/L for TDS. High dissolved solids can leave deposits on glasses and fixtures, cause staining or give water an undesirable taste.

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DOMESTIC WATER ANALYSIS

LAB Sample ID: 2022W237

Source: Surface - Lake Water

Date Received: 7/8/2022

Date Reported: 7/28/2022

CUSTOMER Sample ID: BLP

Water Parameters	Results	Drinking Water Guidelines
Electric Conductivity (EC) mmhos/cm	1.29	N/A
pH	7.95	6.5 to 8.5
	mg/L	mg/L
Calcium	90.43	N/A
Magnesium	4.954	N/A
Sodium	33.1	N/A
Potassium	1.604	N/A
Carbonate	0.00	N/A
Bicarbonate	141.21	N/A
Sulfate	389.7	≤250
Nitrate	<0.001	≤44.3
Nitrate-Nitrogen	<0.001	≤10
Nitrite	<0.001	<1
Nitrite-Nitrogen	<0.001	
Total Alkalinity		
as CaCO ₃	2.3	≤300
Total Hardness		
as CaCO ₃	223	≤120
Total Dissolved Solids		
	809	≤500

Water Parameters	Results	Drinking Water Guidelines
	mg/L	mg/L
Phosphorus	0.514	N/A
Iron	<0.001	≤0.3
Manganese	0.008	≤0.05
Zinc	<0.001	≤5.0
Copper	0.002	≤1.3
Boron	*	≤2.4
Aluminum	*	<0.2
Arsenic	*	≤0.01
Barium	*	≤2.0
Cadmium	*	≤0.005
Chromium	*	≤0.1
Fluoride	*	≤4.0
Lead	*	<0.15
Mercury	*	≤0.002
Molybdenum	*	≤0.07
Nickel	*	≤0.02
Selenium	*	≤0.05
Ammonium	*	N/A

* Not requested

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DOMESTIC WATER ANALYSIS

LAB Sample ID: 2022W237

Source: Surface - Lake Water

Date Received: 7/8/2022

Date Reported: 7/28/2022

CUSTOMER Sample ID: Trails Beach

Water Parameters	Results	Drinking Water Guidelines
Electric Conductivity (EC) mmhos/cm	1.28	N/A
pH	8.48	6.5 to 8.5
	mg/L	mg/L
Calcium	88.82	N/A
Magnesium	4.87	N/A
Sodium	32.71	N/A
Potassium	1.801	N/A
Carbonate	4.85	N/A
Bicarbonate	117.55	N/A
Sulfate	397.2	≤250
Nitrate	1.441	≤44.3
Nitrate-Nitrogen	0.33	≤10
Nitrite	<0.001	<1
Nitrite-Nitrogen	<0.001	
Total Alkalinity		
as CaCO ₃	2.0	≤300
Total Hardness		
as CaCO ₃	222	≤120
Total Dissolved Solids		
	805	≤500

Water Parameters	Results	Drinking Water Guidelines
	mg/L	mg/L
Phosphorus	0.463	N/A
Iron	<0.001	≤0.3
Manganese	0.002	≤0.05
Zinc	<0.001	≤5.0
Copper	<0.001	≤1.3
Boron	*	≤2.4
Aluminum	*	<0.2
Arsenic	*	≤0.01
Barium	*	≤2.0
Cadmium	*	≤0.005
Chromium	*	≤0.1
Fluoride	*	≤4.0
Lead	*	<0.15
Mercury	*	≤0.002
Molybdenum	*	≤0.07
Nickel	*	≤0.02
Selenium	*	≤0.05
Ammonium	*	N/A

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