

Peter Taylor

9128 Tawny Lynx Road
Loveland CO 80538

Date Received: 5/23/2008

Date Reported: 6/25/2008

LAB # W1123

DOMESTIC WATER ANALYSIS

SOURCE: Larimer County

COLORADO STATE UNIVERSITY

Soil, Water & Plant Testing Laboratory

Room A319, NESB

Fort Collins, CO 80523-1120

Phone: 970-491-5061 / Fax: 970-491-2930

Billing:

"Routine Package"

	Recommended	
	Results	Limit
Conductivity	386	µmhos/cm
pH	7.7	6.5 to 8.5
Calcium	mg/L	mg/L
Magnesium	50.5	N/A
Sodium	17.4	N/A
Potassium	14.1	20
Carbonate	2.6	N/A
Bicarbonate	<0.1	N/A
Chloride	264	N/A
Sulfate	3.2	250
Nitrate	12.0	250
Nitrate-Nitrogen	2.7	45
Total Alkalinity as CaCO ₃	0.6	10
Total Hardness as CaCO ₃	216	400
Total Dissolved Solids	198	300
		500
		grains per gallon
		11.5

"Metals" and "Individual Element" Analysis

	Results	Limit
Boron	mg/L	mg/L
Phosphorus	0.01	N/A
Aluminum	*	N/A
Iron	*	0.05 to 0.2
Manganese	*	0.3
Copper	*	0.05
Zinc	*	1.3
Nickel	*	5.0
Molybdenum	*	0.1
Cadmium	*	N/A
Chromium	*	0.005
Barium	*	0.10
Lead	*	2.0
Ammonium	*	0.015
Fluoride	*	N/A
Arsenic	<0.1	4.0
Selenium	*	0.010
Mercury	*	0.05
	*	0.002
		* Not requested

COMMENTS:

None of the parameters measured exceed the EPA suggested limits for domestic use.

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LAB # W1123 L

LIVESTOCK WATER ANALYSIS

SOURCE: Larimer County

"Routine Package"**Recommended**

Conductivity	386	Limit
pH	7.7	

	mg/L	mg/L
Calcium	50.5	N/A
Magnesium	17.4	N/A
Sodium	14.1	N/A
Potassium	2.6	N/A
Carbonate	<0.1	N/A
Bicarbonate	264	N/A
Chloride	3.2	N/A
Sulfate	12	N/A
Nitrate	2.7	443
Nitrate-Nitrogen	0.6	100

Total Alkalinity as CaCO ₃	216	N/A
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Total Hardness as CaCO ₃	198	N/A	grains per gallon 11.5
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Total Dissolved Solids	367	10,000
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COMMENTS:

This water is satisfactory for all classes of livestock and poultry

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Billing:**"Metals" and "Individual Element" Analysis**

	mg/L	Recommended Limit	mg/L
Boron	0.01	5.0	
Phosphorus	*	N/A	
Aluminum	*	5.0	
Iron	*	N/A	
Manganese	*	N/A	
Copper	*	0.5	
Zinc	*	24.0	
Nickel	*	N/A	
Molybdenum	*	N/A	
Cadmium	*	0.05	
Chromium	*	1.0	
Barium	*	1.0	
Lead	*	0.1	
Ammonium	*	N/A	
Fluoride	<0.1	2.0	
Arsenic	*	0.2	
Selenium	*	0.05	
Mercury	*	0.01	

* Not requested

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Billing:

SOURCE: Larimer County

IRRIGATION WATER ANALYSIS

"Routine Package"

	Results	Results
Conductivity	386	$\mu\text{mhos/cm}$
pH	7.7	

	mg/L	meq/L
Calcium	50.5	2.52
Magnesium	17.4	1.43
Sodium	14.1	0.61
Potassium	2.6	0.07
Carbonate	<0.1	<0.1
Bicarbonate	264	4.33
Chloride	3.2	0.09
Sulfate	12.0	0.25
Nitrate	2.7	0.04
Nitrate-Nitrogen	0.6	0.04
Boron	0.01	
Pounds of Sulfate per acre foot	11	

Pounds of Nitrate
per acre foot

1.66

SAR 0.4 Salinity
Hazard

Sodium
Hazard

Low

COMMENTS: This is good quality water for irrigation.