Linda Poole

28593 Content Rd Malta MT 59538

Date Received: 1/19/2016
Date Reported: 1/26/2016

COLORADO STATE UNIVERSITY

Soil, Water & Plant Testing Laboratory

Room A320, NESB

Fort Collins, CO 80523-1120

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

Billing:

DOMESTIC WATER ANALYSIS

LAB # W1182

SOURCE: 2 Standard wool wash

"Routine Package"				"Metals"	and ''Individual Eleme	d ''Individual Element'' Analysis		
		Recommended				Recommended		
	Results	<u>Limit</u>			Results	<u>Limit</u>		
Conductivity	3717	µmhos/cm			mg/L	mg/L		
pН	7.2	6.5 to 8.5		Boron	1.55	N/A		
			-	Phosphorus	< 0.01	N/A		
		mg/L	_	Aluminum	0.01	0.05 to 0.2		
Calcium	13.9	N/A	-	Iron	0.22	0.3		
Magnesium	3.54	N/A	-	Manganese	0.07	0.05		
Sodium	716	20		Copper	0.04	1.3		
Potassium	423	N/A		Zinc	0.39	5.0		
Carbonate	< 0.1	N/A	-	Nickel	0.05	0.1		
Bicarbonate	1462	N/A	-	Molybdenum	0.02	N/A		
Chloride	215	250	_	Cadmium	0.006	0.005		
Sulfate	603	250		Chromium	0.021	0.10		
Nitrate	19.5	45	_	Barium	0.04	2.0		
Nitrate-Nitrogen	4.41	10	_	Lead	0.010	0.015		
				Ammonium	*	N/A		
Total Alkalinity				Fluoride	*	4.0		
as CaCO ₃	1198	400		Arsenic	*	0.010		
	-			Selenium	*	0.05		
Total Hardness			grains per gallon	Mercury	*	0.002		
as CaCO ₃	49	300	2.9	* Not requested				
Total Dissolved Solids	3,461	500						

COMMENTS:

Sulfate, alkalinity, total dissolved solids, manganese, cadmium and chromium exceed the EPA suggested limits for domestic use. Sodium exceeds the EPA drinking water health advisory limit for domestic use. The EPA has not set a maximum contaminant level (MCL) for sodium in municipal water supplies where it is required to have sodium below a legal limit. They have determined that there may be a health issue for individuals on sodium restricted diets if the sodium level exceeds 20 ppm.

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Billing:

LIVESTOCK WATER ANALYSIS

LAB # W1182 L

SOURCE: 2 Standard wool wash

''Routine Package''				''Metals'' and ''Individual Element'' Analysis		
		Recommended	1			
		Limit				
Conductivity	3717	_ µmhos/cm				
pH	7.2	_				Recommended
						Limit
	mg/L	mg/L			mg/L	mg/L
Calcium	13.9	N/A		Boron	1.55	5.0
Magnesium	3.54	N/A		Phosphorus	< 0.01	N/A
Sodium	716	N/A		Aluminum	0.01	5.0
Potassium	423	N/A		Iron	0.22	N/A
Carbonate	< 0.1	N/A		Manganese	0.07	N/A
Bicarbonate	1462	N/A		Copper	0.04	0.5
Chloride	215	N/A		Zinc	0.39	24.0
Sulfate	603	N/A		Nickel	0.05	N/A
Nitrate	19.53	443		Molybdenum	0.02	N/A
Nitrate-Nitrogen	4.41	100		Cadmium	0.006	0.05
				Chromium	0.021	1.0
Total Alkalinity				Barium	0.04	1.0
as CaCO ₃	1198	N/A		Lead	0.01	0.1
•				Ammonium	*	N/A
Total Hardness		;	grains per gallon	Fluoride	*	2.0
as CaCO ₃	49	N/A	2.9	Arsenic	*	0.2
				Selenium	*	0.05
Total Dissolved Solids	3,461	10,000		Mercury	*	0.01
				* Not requested		

COMMENTS:

This water is satisfactory for livestock use but may cause temporary diarrhea or be refused at first by animals not accustomed to the salt content. It is poor water to use for poultry and can cause watery feces, increased mortality and poor growth, especially in turkeys.

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IRRIGATION WATER ANALYSIS

Results

"Routine Package"

LAB# W1182 I

Results

SOURCE: 2 Standard wool wash

Fort Collins, CO 80523-1120

Room A320, NESB

Billing:

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Conductivity	3717	_ µmhos/cm
pН	7.2	_
рНс	7.2	_
	mg/L	meq/L
Calcium	13.9	0.69
Magnesium	3.54	0.29
Sodium	716	31.15
Potassium	423	10.83
Carbonate	< 0.1	< 0.1
Bicarbonate	1462	24.0
Chloride	215	6.06
Sulfate	603	12.6
Nitrate	19.5	19.5
Nitrate-Nitrogen	4.4	4.4
Boron	1.55	

Pounds of Nitrate per acre foot

Pounds of Sulfate

per acre foot

12.0

536

SAR 44.4 Salinity Sodium Hazard Very High Hazard Very High

COMMENTS:

This is very poor quality water and should not be used for irrigation.