#### 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 # W1185

''Routin			
		Recommended	
	<b>Results</b>	Limit	
Conductivity	2669	µmhos/cm	
рН	4.9	6.5 to 8.5	
			_
		mg/L	_
Calcium	6.31	N/A	_
Magnesium	1.13	N/A	-
Sodium	780	20	-
Potassium	15.0	N/A	-
Carbonate	< 0.1	N/A	-
Bicarbonate	1233	N/A	-
Chloride	132	250	-
Sulfate	515	250	
Nitrate	< 0.1	45	-
Nitrate-Nitrogen	< 0.1	10	_
Total Alkalinity			
as CaCO <sub>3</sub>	1011	400	
Total Hardness			grains per gallo
	20	300	1 2
as CaCO3	20	300	1.2
Total Dissolved Solids	2,683	500	

# **SOURCE:** 5 GS aqua dye bath

		Recommended		
	<u>Results</u> mg/L	<u>Limit</u> mg/L		
Boron	1.55	N/A		
Phosphorus	< 0.01	N/A		
Aluminum	0.41	0.05 to 0.2		
Iron	0.26	0.3		
Manganese	0.39	0.05		
Copper	0.17	1.3		
Zinc	3.71	5.0		
Nickel	0.04	0.1		
Molybdenum	0.01	N/A		
Cadmium	0.005	0.005		
Chromium	< 0.01	0.10		
Barium	0.04	2.0		
Lead	0.005	0.015		
Ammonium	*	N/A		
Fluoride	*	4.0		
Arsenic	*	0.010		
Selenium	*	0.05		
Mercury	*	0.002		
* Not requested				

#### **COMMENTS:**

The pH, sulfate, alkalinity, total dissolved solids, aluminum and manganese 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:**

			LIVESTOCI	K WATER ANALYSIS					
LAB # W1185 L "Routine Package"					SOURCE: 5 GS aqua dye bath				
					"Metals" and "In	dividual Elem	ent'' Analysis		
		Recommende	d						
	2660	Limit							
Conductivity	2669	_μmnos/cm							
рН	4.9	_					Recommended		
							Limit		
	mg/L	mg/L				mg/L	mg/L		
Calcium	6.31	N/A			Boron	1.55	5.0		
Magnesium	1.13	N/A			Phosphorus	< 0.01	N/A		
Sodium	780	N/A			Aluminum	0.41	5.0		
Potassium	15.0	N/A			Iron	0.26	N/A		
Carbonate	< 0.1	N/A			Manganese	0.39	N/A		
Bicarbonate	1233	N/A			Copper	0.17	0.5		
Chloride	132	N/A			Zinc	3.71	24.0		
Sulfate	515	N/A			Nickel	0.04	N/A		
Nitrate	< 0.1	443			Molybdenum	0.01	N/A		
Nitrate-Nitrogen	< 0.1	100			Cadmium	0.005	0.05		
					Chromium	< 0.01	1.0		
Total Alkalinity					Barium	0.04	1.0		
as CaCO <sub>3</sub>	1011	N/A			Lead	0.005	0.1		
					Ammonium	*	N/A		
Total Hardness			grains per gallon		Fluoride	*	2.0		
as CaCO <sub>3</sub>	20	N/A	1.2		Arsenic	*	0.2		
-					Selenium	*	0.05		
Total Dissolved Solids	2,683	10,000			Mercury	*	0.01		
					* Not requested				

#### **COMMENTS:**

This water is satisfactory for all classes of livestock and poultry. It may cause mild, temporary diarrhea in livestock and watery droppings in poultry not accustomed to the salt content.

#### Linda Poole 28593 Content Rd Malta MT 50528

Malta MT 59538

LAB #

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Fort Collins, CO 80523-1120 Phone: 970-491-5061 / Fax: 970-491-2930

## **Billing:**

#### **SOURCE:** 5 GS aqua dye bath

High

					-	
			Results	Results	=	
		Conductivity	2669	_µmhos/cm		
		pН	4.9	_		
		рНс	7.8			
			mg/L	meq/L		
		Calcium	6.31	0.31		
		Magnesium	1.13	0.09	-	
		Sodium	780	33.95	-	
		Potassium	15.0	0.38	_	
		Carbonate	< 0.1	< 0.1		
		Bicarbonate	1233	20.22	_	
		Chloride	132	3.73	_	
		Sulfate	515	10.72		
		Nitrate	< 0.1	< 0.1		
		Nitrate-Nitrogen	< 0.1	< 0.1		
		Boron	1.55	_		
		Pounds of Sulfate	458			
		per acre foot				
		Pounds of Nitrate				
		per acre foot	< 0.1	_		
		Salinity			Sodium	
SAR	75.2	Hazard	High		Hazard	Ver

**IRRIGATION WATER ANALYSIS** 

#### **COMMENTS:**

This water is classified as a high salinity, high sodium irrigation water and would not be suitable for irrigation purposes. Soils irrigated with this water will accumulate salts, in particular sodium, which would eventually be detrimental to plants.