



A & L Western Laboratories, Inc.

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Ag Suitability Water Analysis

Customer Name
Street Address
City, State, Zip

Order Number: 12345
Lab Number: W12345-01
Submitted Date: 2/15/2023
Report Date: 2/20/2023
Submitted By: Submitter

P.O. #: 123456

Grower: Grower Name

Location: Sample Collection Location

Description: Sample Description

mg/L = milligrams/liter = part per million = ppm
meq/L = milliequivalents/liter
dS/m = deciSiemen/meter = mmhos/cm
lbs/ac-ft = pounds/acre-foot

Analytes

pH (pH)	7.2	pH units
Electrical Conductivity (EC)	0.32	dS/m
Boron (B)	0.20	mg/L
Iron (Fe)	0.06	mg/L
Copper (Cu)	<0.01	mg/L
Manganese (Mn)	<0.01	mg/L

Normal Values

6.5 to 8.0

0.5 to 3.0

<0.5

Problem Values

<6.5 or >8.0

<0.5 or >3.0

>0.5

Cations

	mg/L	meq/L	lbs/ac-ft
Calcium (Ca)	25.0	1.25	67.5
Magnesium (Mg)	7.2	0.60	19.5
Sodium (Na)	30.6	1.33	82.6
Potassium (K)	3.5	0.09	9.5

Normal Values mg/L

30 to 400

1 to 60

<70

Problem Values mg/L

<30

[Mg]>[Ca]

>70

Anions

	mg/L	meq/L	lbs/ac-ft
Bicarbonate (HCO ₃)	109	1.78	293
Chloride (Cl)	16.2	0.46	43.7
Nitrate - Nitrogen (NO ₃ -N)	5.5	0.39	14.7
Sulfate - Sulfur (SO ₄ -S)	15.9	0.50	42.9

Normal Values mg/L

<150

<150

<10

Problem Values mg/L

>300

>200

>10

Calculated Values

Total Dissolved Solids (TDS)	218	mg/L
Sodium Absorption Ratio (SAR)	1.4	
SAR/EC Ratio (SEC)	4.4	
pHc (pHc)	8.1	

Normal Values

1 to 1,500

<6.0

<5.0

<8.4 may add Ca >8.4 may remove Ca

Problem Values

>1,900

>6.0

>10.0

Gypsum Requirements

100% gypsum equivalent (lbs/ac-ft)

Eatons Gypsum Requirement (EGR)	62
Residual Sodium Carbonate (RSC)	0

Sam Modesitt - Chemist

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RED = Value of Concern