

**Testing ID** Sequoia Soil Company

**Sample** "Complete" ANA-3080

**Date** 03/27/23

**Total Soil**

### Complex Nutrition

Insoluble nutrients with the potential to become soluble

Element	PPM	Rating	Optimal Range
Calcium (Ca)	3618	Optimal	2000-7000
Iron (Fe)	66	Low	250-400
Magnesium (Mg)	764	Optimal	400-1400
Manganese (Mn)	23	Low	50-125
Phosphorous (P)	238	Low	400-800
Potassium (K)	2169	Optimal	2000-4000
Sodium (Na)	267	Optimal	100-500
Sulfur (S)	988	Low	2000-8000
Zinc (Zn)	21	Low	100-250

Ca/Mg Ratio	PPM/meq	Rating	Optimal Range
Insoluble PPM	4.7 : 1	Low	>5 : 1
Soluble PPM	3.2 : 1	Low	>4 : 1
Soluble millieq/l	1.9 : 1	Low	>2 : 1

### Trace Elements

Element	PPM	Rating	Optimal Range
Arsenic	0.81	Optimal	<2.5
Cadmium	0.09	Optimal	<2.5
Lead	1.80	Optimal	<15
Mercury	ND	Optimal	<2.5
Boron	0.55	Optimal	<1

### Soluble Nutrition

Soluble nutrients readily available to the plant

Ion	Element	PPM	millieq/l
Cations	Ammonium (N)	1	0.1
	Calcium (Ca)	285	14.2
	Magnesium (Mg)	89	7.3
	Potassium (K)	251	6.4
	Sodium (Na)	49	2.1
<b>Cation Total</b>			<b>30.2</b>

Ion	Element	PPM	millieq/l
Anions	Chloride (Cl)	65	1.8
	Nitrate (N)	180	12.8
	Phosphorus (P)	10	0.3
	Sulfate (S)	245	15.3
<b>Anion Total</b>			<b>30.3</b>

### ECe

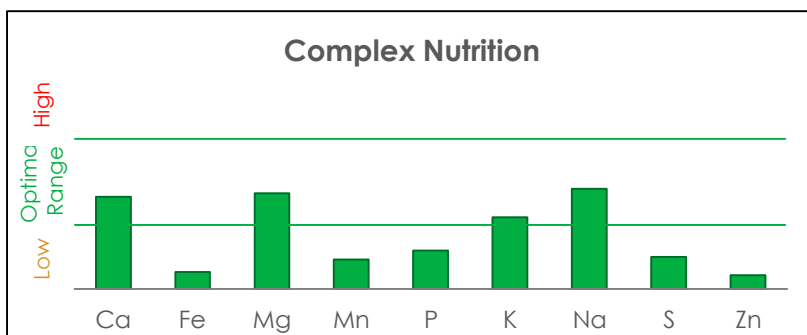
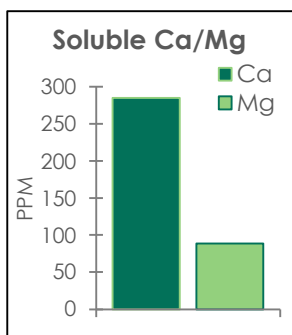
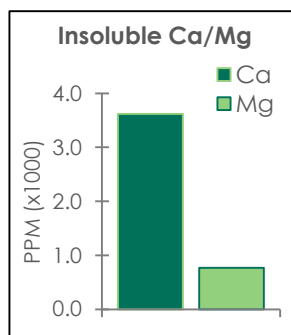
### pH

Measure of media salinity	Potential Hydrogen
2.58	6.15

### Media Quality

Reflects overall quality of soil media

Organic Matter	good
Moisture Content of Media	124%
Half Saturation Percentage	180%



ND = non-detect