



<b>Testing ID</b>	Sequoia Soil
<b>Sample</b>	Base

<b>Date</b>	02/24/23
<b>Total Soil Volume</b>	

### Amendment Recommendations

Incorporate the following globally into soil media		
Amendment	App Rate	
N/A		lbs/yd
Ag Pellets		lbs/yd
Worm Castings		%/yd
Compost		%/yd
Soil Activation Package	<input type="checkbox"/>	10 gal/yd

Notes

### Complex Nutrition

Insoluble nutrients with the potential to become soluble			
Element	PPM	Rating	Optimal Range
Calcium (Ca)	3265	Optimal	2000-7000
Iron (Fe)	53	Low	250-400
Magnesium (Mg)	590	Optimal	400-1400
Manganese (Mn)	67	Optimal	50-125
Phosphorous (P)	191	Low	400-800
Potassium (K)	1457	Low	2000-4000
Sodium (Na)	301	Optimal	100-500
Sulfur (S)	209	Low	2000-8000
Zinc (Zn)	21	Low	100-250

### Soluble Nutrition

Soluble nutrients readily available to the plant			
Ion	Element	PPM	millieq/l
Cations	Ammonium (N)	12	0.8
	Calcium (Ca)	38	1.9
	Magnesium (Mg)	17	1.4
	Potassium (K)	108	2.8
	Sodium (Na)	31	1.3
<b>Cation Total</b>			<b>8.2</b>
Anions	Chloride (Cl)	61	1.7
	Nitrate (N)	6	0.4
	Phosphorus (P)	9	0.3
	Sulfate (S)	50	3.2
<b>Anion Total</b>			<b>5.6</b>

Ca/Mg Ratio	PPM/meq	Rating	Optimal Range
Insoluble PPM	5.5 : 1	Optimal	>5 : 1
Soluble PPM	2.2 : 1	Low	>4 : 1
Soluble millieq/l	1.4 : 1	Low	>2 : 1

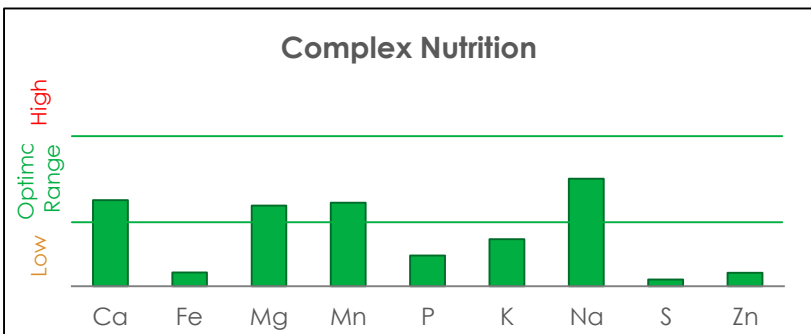
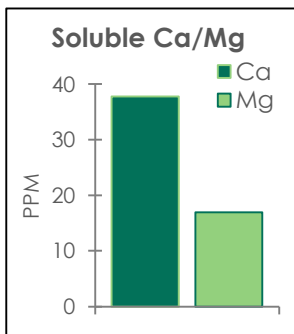
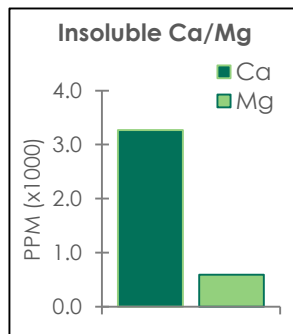
ECe	pH
Measure of media salinity	Potential Hydrogen
0.94	7.09

### Heavy Metals

Trace elements that may be toxic			
Element	PPM	Rating	Optimal Range
Arsenic	ND	Optimal	<2.5
Cadmium	ND	Optimal	<2.5
Lead	0.73	Optimal	<15
Mercury	ND	Optimal	<2.5

### Media Quality

Reflects overall quality of soil media	
Organic Matter	good
Moisture Content of Media	109%
Half Saturation Percentage	181%



ND = non-detect