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Sample ID ANA2021-088
 Requester Sequoia Soils
 graphic interpretation: * very low, ** low, *** moderate

ammonium bicarbonate/DTPA		*** high, ***** very high	
extractable - mg/kg soil	Sample ID Number	21-54-27	
Interpretation of data	Sample Description	Base Mix, 2/10/21	
low medium high	elements		graphic
0 - 12 16 - 28 32 - 44	phosphorus	63.51	*****
0-240 240-500 500-700	potassium	929.96	*****
0- 12 12- 20 over 20	iron	367.45	*****
0 - 2 3 - 4 over 5	manganese	24.09	****
0 - 4 4 - 6 over 6	zinc	20.78	****
0- 0.5 0.6 - 1 over 1	copper	3.63	****
0 - 1 1 - 2 over 2	boron	1.39	***
	calcium	3,129.38	*****
	magnesium	541.70	*****
	sodium	184.29	*
	sulfur	56.63	*
	molybdenum	0.10	***
	nickel	1.91	*
The following trace elements may be toxic	aluminum	33.21	*****
The degree of toxicity depends upon the pH of the soil, soil texture, organic matter, and the concentrations of the individual elements as well as to their interactions.	arsenic	nd	*
	barium	11.47	*
	cadmium	nd	*
	chromium	0.16	*
	cobalt	0.33	*
	lead	1.93	*
	lithium	nd	*
	mercury	nd	*
	selenium	nd	*
	silver	nd	*
The pH optimum depends upon soil organic matter and soil content-	strontium	16.30	*
under 5 may be too acidic	tin	nd	*
6 to 7 may be good	vanadium	2.08	*
over 8.0 is too alkaline	Saturation Extract		
The ECe is a measure of the media salinity:	pH value	6.12	***
	ECe (milli-mho/cm)	0.39	*
			millieq/l
good at 200 ppm	calcium	32.3	1.6
good at 25 ppm	magnesium	11.9	1.0
	sodium	21.6	0.9
good at 25 ppm	ammonium as N	0.4	0.0
good at 150 ppm	potassium	54.0	1.4
	cation sum		4.9
problems over 150 ppm	chloride	20	0.6
good at 100 ppm	nitrate as N	17.5	1.3
good at 40 ppm	phosphorus as P	1.6	0.1
toxic over 800	sulfate as S	16.8	1.0
	anion sum		2.9
toxic over 1 for many plants	boron as B	0.43	***
increasing problems start at 3	SAR	0.8	*
est. gypsum requirement-lbs./cubic yard		6	
	relative infiltrate rate	fair/good	
	lime (calcium carbonate)	no	
	organic matter	good	
	moisture content of media	137.1%	
	half saturation percentage	150.0%	

Compiled by a professional laboratory for Soilscape Solutions, LLC
 Elements are expressed as mg/kg dry soil or mg/l for saturation extract.
 pH and ECe are measured in a saturation paste extract. nd means not detected.
 Analytical data determined on soil fraction passing a 2 mm sieve.