

**SOILSCAPE SOLUTIONS**  
**970 W Waterfront Dr**  
**Eureka, CA 95501**  
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**MEDIA REPORT**

Print Date January 27, 2022

Sample ID ANA2022-015

Requester Sequoia Soils

graphic interpretation: \* very low, \*\* low, \*\*\* moderate

**ammonium bicarbonate/DTPA**

\*\*\* high, \*\*\*\*\* very high

extractable - mg/kg soil

Sample ID Number 22-25-09

Interpretation of data

Sample Description "Ligna Blend"

low medium high

elements graphic

0 - 12 16 - 28 32 - 44

phosphorus 297.70 \*\*\*\*\*

0-240 240-500 500-700

potassium 828.29 \*\*\*\*\*

0- 12 12- 20 over 20

iron 159.04 \*\*\*\*\*

0 - 2 3 - 4 over 5

manganese 26.92 \*\*\*\*

0 - 4 4 - 6 over 6

zinc 11.34 \*\*\*\*

0- 0.5 0.6 - 1 over 1

copper 2.83 \*\*\*\*

0 - 1 1 - 2 over 2

boron 1.11 \*\*\*

calcium 3,727.73 \*\*\*\*\*

magnesium 449.44 \*\*\*\*\*

sodium 223.68 \*\*

sulfur 133.54 \*\*

molybdenum 0.53 \*\*\*\*\*

nickel 1.59 \*

aluminum 12.53 \*\*\*\*\*

arsenic 0.88 \*

barium 18.74 \*\*

cadmium n d \*

chromium n d \*

cobalt 0.16 \*

lead 0.47 \*

lithium 1.92 \*

mercury n d \*

selenium n d \*

silver n d \*

strontium 28.05 \*\*

tin n d \*

vanadium 0.95 \*

The following trace

elements may be toxic

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.

The pH optimum depends

upon soil organic

matter and soil content-

under 5 may be too acidic

6 to 7 may be good

over 8.0 is too alkaline

The ECe is a measure of

the media salinity:

**Saturation Extract**

pH value

ECe (milli-

mho/cm)

good at 200 ppm

calcium 25.5 millieq/l 1.3

good at 25 ppm

magnesium 7.5 0.6

sodium 24.9 1.1

good at 25 ppm

ammonium as N 5.6 0.4

good at 150 ppm

potassium 52.9 1.4

cation sum 4.7

problems over 150 ppm

chloride 20 0.6

good at 100 ppm

nitrate as N 15.8 1.1

good at 40 ppm

phosphorus as P 27.1 0.9

toxic over 800

sulfate as S 22.8 1.4

anion sum 4.0

toxic over 1 for many plants

boron as B 0.12 \*

increasing problems start at 3

SAR 1.1 \*

est. gypsum requirement-lbs./cubic yard

5

relative infiltrate rate fair/good

lime (calcium carbonate) no

organic matter good

moisture content of media 166.9%

half saturation percentage 226.2%

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.