

# Full Chemistry Test

For: John Smith 01/01/2024

ID: Backyard



Alluvial Soil Lab  
(831) 216-1367  
www.alluvialsoillab.com  
2100 Glen Canyon Rd,  
Santa Cruz, CA 95060

## Soil Health Overview

Overall Health



## Macronutrients (ppm)



## Secondary/Micronutrients (ppm)



## Advanced Details



Salinity

**Good**

0.4 mmhos/cm

**Na**

Sodium

**Good**

108 ppm



Cation Exchange  
Capacity

**Good**

22 meq/100g



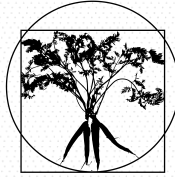
Base Saturation

**Good**

72% Ca  
23% Mg  
2.1% Na  
1.7% K

- = Poor
- = Low
- = Good
- = Great
- = Very high/Potentially toxic

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Re: Full Chemistry Test

Dear John Smith,

This soil is in poor health. Here are the key observations we made:

- Nitrogen is low
- pH is very high
- High boron levels may cause yellowing or necrosis in some species
- Organic matter is low

### Amendment Recommendations per 1000 sq/ft

Application Instructions: Spread on the surface and, if possible, lightly rake into top two inches of soil. If applying large quantities of pH adjusting amendments (>20 lbs of elemental sulfur, or 100 lbs of lime), till in to a six-inch depth.

<i>Amount</i>	<i>Amendment</i>	<i>Status</i>
16 lbs	Elemental Sulfur	Required
17 lbs	Down to Earth Feather Meal	Recommended
2 cubic yard(s)	Compost*	Recommended
20 lbs	Gypsum	Required

### Annual Upkeep per 1000 sq/ft

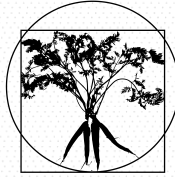
<i>Amount</i>	<i>Amendment</i>	<i>Status</i>
20 lbs	Down to Earth Vegan Mix	Recommended
0.5 cubic yard(s)	Compost*	Recommended

If you have any other questions, feel free to call our office at (831) 216-1367 or email us at [info@alluvialsoillab.com](mailto:info@alluvialsoillab.com).

Best Regards,

Jake Pinkus  
Soil Scientist  
Alluvial Soil Lab

\*Compost quality ranges significantly depending on producer. Please refer to our website for recommended producers, and ask supplier for compost test results (mandatory by law). Alluvial Soil Lab will be happy to consult on compost test results at no charge.



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### **Suitable California Native Species:**

#### Grasses

1. June Grass (*Koeleria macrantha*) - Moderate drought tolerance
2. Purple Needlegrass (*Stipa pulchra*) - High drought tolerance
3. Deergrass (*Muhlenbergia rigens*) - High drought tolerance
4. Giant Wildrye (*Leymus condensatus*) - Moderate drought tolerance
5. Blue Grama Grass (*Bouteloua gracilis*) - High drought tolerance

#### Shrubs

6. California Sagebrush (*Artemisia californica*) - High drought tolerance
7. Manzanita (*Arctostaphylos* spp.) - High drought tolerance
8. Coffeeberry (*Frangula californica*) - Moderate to high drought tolerance
9. Toyon (*Heteromeles arbutifolia*) - High drought tolerance
10. California Lilac (*Ceanothus* spp.) - High drought tolerance
11. Bush Monkey Flower (*Mimulus aurantiacus*) - Moderate drought tolerance
12. Chaparral Mallow (*Malacothamnus fasciculatus*) - High drought tolerance
13. Flannel Bush (*Fremontodendron californicum*) - High drought tolerance
14. Lemonade Berry (*Rhus integrifolia*) - High drought tolerance
15. Silver Lupine (*Lupinus albifrons*) - Moderate drought tolerance

#### Trees

16. Western Redbud (*Cercis occidentalis*) - Moderate drought tolerance
17. California Buckeye (*Aesculus californica*) - Moderate drought tolerance
18. Coast Live Oak (*Quercus agrifolia*) - High drought tolerance
19. California Sycamore (*Platanus racemosa*) - Moderate drought tolerance
20. White Alder (*Alnus rhombifolia*) - Low to moderate drought tolerance
21. Bay Laurel (*Umbellularia californica*) - Moderate drought tolerance
22. California Black Walnut (*Juglans californica*) - Moderate drought tolerance
23. Valley Oak (*Quercus lobata*) - High drought tolerance
24. Blue Oak (*Quercus douglasii*) - High drought tolerance
25. Engelmann Oak (*Quercus engelmannii*) - High drought tolerance

*California native species suitability list disclaimer:*

*The California Native Species Suitability List is intended to provide general guidance regarding the suitability of native plant species for specific soil characteristics identified from soil tests. Environmental factors, microclimates, water chemistry, and other local conditions may vary significantly within California and Alluvial Soil Lab can not warranty the success of any plantings.*