



# Biological Analysis Soil

**Report prepared for:**

Sonoma Mountain Inst.  
Nate Chisholm  
PO Box 228  
Glen Ellen, CA 95442 USA

Report Sent: 3/27/2014  
Sample#: 01-118373 | Submission:01-023722  
Unique ID: Orchard  
Plant: Pasture

Invoice Number: 10931  
Sample Received: 3/21/2014

natec191@gmail.com

For interpretation of this report please contact:  
Earthfort Labs  
[info@earthfort.com](mailto:info@earthfort.com)  
(541) 257-2612

*Consulting fees may apply*

Organism Biomass Data	Dry Weight	Active Bacteria (µg/g)	Total Bacteria (µg/g)	Active Fungi (µg/g)	Total Fungi (µg/g)	Hyphal Diameter (µm)	<b>Nematode detail (# per gram or # per mL)</b> Classified by type and identified to genus. (If section is blank, no nematodes identified.)		
<b>Results</b>	0.810	29.5	1367	10.8	864	2.85	Bacterial Feeders	0.20	
<b>Comments</b>	In Good Range	Below range	Above range	Below range	Above range		Cephalobus		0.07
<b>Expected Range</b>	Low	30	300	30	300		Cervidellus		0.02
	High	0.85	60	60	600		Plectus		0.08
							Prismatolaimus		0.02
							Rhabdolaimus		0.02
							Fungal Feeders	0.12	
							Eudorylaimus		0.03
							Mesodorylaimus		0.02
							Tylencholaimus		0.07
							Fungal/Root Feeders	0.27	
							Aphelenchus		0.02
							Aprutides		0.02
							Ditylenchus	Stem & Bulb nematode	0.20
							Filenchus		0.03
							Root Feeders	0.05	
							Meloidogyne	Root-Knot nematode	0.02
							Pratylenchus	Lesion nematode	0.03
Organism Biomass Ratios	Total Fungi to Tot.Bacteria	Active to Total Fungi	Active to Total Bacteria	Active Fungi to Act.Bacteria	Nitrogen Cycling Potential (lbs/ac)				
<b>Results</b>	<b>0.63</b>	<b>0.01</b>	<b>0.02</b>	<b>0.37</b>	200+				
<b>Comments</b>	Low	Low	Low	Low					
<b>Expected Range</b>	Low	0.1	0.1	1					
	High	2	0.15	0.15	2				

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Dry Weight: Within normal moisture levels.

Active Bacteria: Bacterial activity low, foods may be required.

Total Bacteria: Excellent bacterial biomass.

Active Fungi: Fungal activity low, foods may be required.

Total Fungi: Excellent fungal biomass.

Hyphal Diameter: Good balance of fungi.

Protozoa: Nutrients are being cycled and made available to plants in good rates.

Total Nematodes: Low numbers, good diversity.

Mycorrhizal Col.: Normal colonization.

TF/TB: Too bacterial for some pasture grasses

AF/TF: Low fungal activity, foods may be required.

AB/TB: Low bacterial activity, foods may be required.

AF/AB: Bacterial dominated, becoming more bacterial.

Interpretation Comments:

Actinobacteria Biomass = 7.07 ug/g  
Good fungal diversity; hyphal diameter 1.5 to 7 um.  
VAM = hyphae & vesicles. Some spores formed outside roots.