



# 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#: 01-118371 | Submission:01-023722  
Unique ID: Front Meadow  
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	27.8	1299	5.98	515	2.85	Bacterial Feeders	0.47	
<b>Comments</b>	In Good Range	Below range	Above range	Below range	In range		Achromadora		0.10
<b>Expected Range</b>	Low	30	300	30	300		Butlerius		0.02
	High	0.85	60	600	600		Cephalobus		0.03
							Panagrolaimus		0.03
							Plectus		0.16
							Rhabditidae		0.12
							Fungal/Root Feeders	0.12	
							Aphelenchoides	Foliar nematode	0.03
							Aphelenchus		0.02
							Ditylenchus	Stem & Bulb nematode	0.07
							Root Feeders	0.05	
							Pratylenchus	Lesion nematode	0.05
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>0.40</b>	<b>0.01</b>	<b>0.02</b>	<b>0.22</b>	100-150				
<b>Comments</b>	Low	Low	Low	Low					
<b>Expected Range</b>	Low	0.1	0.1	1					
	High	2	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: Good 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, OK 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 6.5 um.  
VAM = hyphae & vesicles