



Biological Analysis Soil

Report prepared for:

Sonoma Mountain Institute
Byron Palmer
4080 Manor Lane
Petaluma, CA 94954 USA

Report Sent: 3/27/2014
Sample#: 01-118353 | Submission:01-023709
Unique ID: B4
Plant: Not Indicated

Invoice Number: 10905
Sample Received: 3/14/2014

byronpalmer@hotmail.com

For interpretation of this report please contact:
Earthfort Labs
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)	Nematode detail (# per gram or # per mL) Classified by type and identified to genus. (If section is blank, no nematodes identified.)
Results	0.770	41.7	847	15.6	1021	2.9	
Comments	In Good Range	In range	Above range	Below range	Above range		
Expected Range	Low	30	300	30	300		
	High	0.85	60	600	600		
		Protozoa (Numbers/g)			Total Nematodes #/g	Mycorrhizal Colonization (%)	
		Flagellates	Amoebae	Ciliates		ENDO	ECTO
Results	7472	59818	7	Not Ordered	0%	80%	
Comments	Good	High	Good		Low	High	
Expected Range	Low	5000	5000	0	10%	10%	
	High	50000	50000	100	50%	50%	
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)		
Results	1.21	0.02	0.05	0.37	100-150		
Comments	Good	Low	Low	Low			
Expected Range	Low	1	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 within normal levels.

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:

Mycorrhizal Col.: No colonization, inoculum and foods may be required.

TF/TB: Correctly balanced fungal and bacterial biomass for a wide variety of plants

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

AB/TB: Low bacterial activity relative to total biomass

AF/AB: Balanced fungal and bacterial biomass, but becoming more bacterial.

Interpretation Comments:

Actinobacteria Biomass = 7.44 ug/g
Good fungal diversity. Hyphal diameter 1.5 to 7um.