Foodweb Analysis
Soil Amendment

Report prepared for:

Tree Solutions Inc.
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Report Sent: 1/14/2010
Sample#: 01-108505 | Submission:01-020035
Unique ID: Woodchip Compst
Plant:
Invoice Number: 4834
Sample Received: 1/7/2010

For interpretation of this report please contact:
Soil Foodweb Oregon
info@oregonfoodweb.com
(541) 752-5066

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)
Results	**0.370**	92.9	1608	26.0	2579	3
Comments	Below Range	Above range	In range	Above range	Above range	
Expected Range Low	0.45	15	100	15	100	
Expected Range High	0.85	25	3000	25	300	

	Protozoa (Numbers/g)			Total Nematodes #/g	Mycorrhizal Colonization (%)	
	Flagellates	Amoebae	Ciliates		ENDO	ECTO
Results	3734684	124085	746	**9.05**	Not Ordered	Not Ordered
Comments	High	High	High	Low		
Expected Range Low	10000	10000	50	20		
Expected Range High			100	30		

Organism Biomass Ratios	Total Fungi to Tot.Bacteria	Active to Total Fungi	Active to Total Bacteria	Active Fungi to Act.Bacteria	Plant Available N Supply (lbs/ac)	Actino Bacteria (µg/g)
Results	1.60	0.01	0.06	**0.28**	300+	11.1
Comments	High	Good	Good	Low		
Expected Range Low	0.75	0.01	0.01	0.75		
Expected Range High	1.5	0.1	0.1	1.5		

Nematode detail (# per gram or # per mL)
Classified by type and identified to genus.
(If section is blank, no nematodes identified.)

Bacterial Feeders	3.05	
Butlerius		0.79
Cephalobus		0.12
Cuticularia		0.12
Diploscapter		0.18
Monhystrella		0.06
Rhabditidae		1.77
Fungal Feeders	0.31	
Aporcelaimellus		0.24
Mesodorylaimus		0.06

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Dry Weight:	Cover material when raining; reduce water by turning or adding dry material
Active Bacteria:	Bacterial activity above expected levels. Bacterial biomass will increase as long as nutrients are available
Total Bacteria:	Aerobic bacterial biomass in normal range for mature amendment
Active Fungi:	Fungal activity above expected levels; fungal biomass will increase as long as nutrients are available
Total Fungi:	Fungal biomass and diversity above typical range for amendment
Hyphal Diameter:	Good balance of disease suppressive and normal soil fungi
Protozoa:	High ciliate numbers indicate aggregates anaerobic internally, but aerobic outside based on excellent numbers of flagellates and amoebae. This means great diversity, good for soil functioning in all conditions.
Total Nematodes:	Low numbers, OK diversity. Need to add beneficial nematodes. Nutrient cycling from fungi limited.
Mycorrhizal Col.:	
TF/TB:	More fungal biomass than bacterial biomass. Excellent for improving fungal diversity and biomass.
AF/TF:	Activity in desired range for mature amendment. Fungi will not compete with plants for nutrients.
AB/TB:	Activity in desired range for mature amendment. Bacteria will not compete with plants for nutrients.
AF/AB:	Fungal-dominated; becoming more bacterial; addition of foods for preferred dominance might speed balance.

Interpretation Comments:

Actinobacteria Biomass = 11.1 ug/g
Good fungal diversity. Hyphal diameter: 2 to 6um