Compost
Foodweb Analysis

Report prepared for:

Alaska Organics LLC
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Report Sent: 03/19/2007
Sample#: 01-104009 | Submission:01-018007
Unique ID: Bulk Humus
Plant:
Invoice Number: 1979
Sample Received: 03/13/2007

For interpretation of this report please contact:
Local Advisor: or regional lab
Soil Foodweb, Inc
info@soilfoodweb.com
(541) 752-5066

Consulting fees may apply

Organism Biomass Data	Dry Weight	Active Bacterial (µg/g)	Total Bacterial (µg/g)	Active Fungal (µg/g)	Total Fungal (µg/g)	Hyphal Diameter (µm)
Results	**0.280**	216	992	19.5	2838	3
Comments	Too Wet	Excellent	Good	Good	Excellent	
Expected Range Low	0.45	15	100	15	100	
Expected Range High	0.85	25	3000	25	300	

	Protozoa			Total Nematodes	Percent Mycorrhizal Colonization	
	Flagellates	Numbers/g Amoebae	Ciliates	#/g	ENDO	ECTO
Results	**2089**	**505**	50	**1.42**	Not Ordered	Not Ordered
Comments	Low	Low	Good	Low		
Expected Range Low	10000	10000	50	20		
Expected Range High			100	30		

Organism Biomass Ratios	Total Fungal to Total Bacterial	Active to Total Fungal	Active to Total Bacterial	Active Fungal to Active Bacterial	Plant Available N Supply (lbs/acre)
Results	2.86	**0.007**	0.22	**0.09**	50-75
Comments	High	Low	High	Low	
Expected Range Low	0.75	0.01	0.01	0.75	
Expected Range High	1.5	0.1	0.1	1.5	

Nematodes per Gram of Soil
Identification to genus

Bacterial Feeders	
Butlerius	0.29
Cephalobus	0.09
Predatory	
Clarkus	0.01

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Dry Weight:	Cover compost 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 compost
Active Fungi:	Filamentous fungal activity and diversity in normal range for mature compost
Total Fungi:	Fungal biomass and diversity above typical range for compost
Hyphal Diameter:	Good balance of disease suppressive and normal soil fungi
Protozoa:	Aerobic protozoa too low to provide needed nutrient cycling for plants, good ciliate numbers indicate anaerobic situation developing.
Total Nematodes:	Low numbers, low 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:	Add beneficial fungal foods to improve active fungal biomass
AB/TB:	Not mature. Wait to apply this material until activity drops below 0.1 (10%). Material is currently suitable for making tea.
AF/AB:	Fungal-dominated compost is becoming more bacterial; addition of foods for preferred dominance might speed balance.
Nitrogen Supply:	1.7 tons of yield possible if all biology is functioning

Interpretation Comments:

Notes: Material has been in bulk container 18 months
Good bacterial diversity.
Actinobacterial Biomass = 70.0 ug/g
Good fungal diversity, hyphal dia: 2.25-6.0 um.