Color Legend
Beneficial Organisms
Detrimental Organisms

Client:	Midwest Soil Restore
Sample ID:	1
Date Collected:	Saturday January 25 2025
Date Observed:	Friday January 31 2025
Observed by:	Zach Wright

Beneficial F:B Ratio
32 : 57
Total F:B Ratio
43 : 77

Beneficial Nematodes (Numbers/g)		Detrimental Nematodes (Numbers/g)	
Results	1,000.00	Results	0.00
Comments		Comments	
Expected Range	100 - 2,000	Expected Range	0

Nematode ID	Number of Nematodes Observed
Bacterial Feeders	1
Fungal Feeders	0
Predatory	1
Omnivores	0
Switchers	0
Root Feeders	0

Protozoans	Flagellates (#s/g)	Amoebae (#s/g)	Ciliates (#s/g)
Results	203,800.00	1,222,800.00	0.00
Comments			
Expected Range	10,000 -100,000,000	10,000 -100,000,000	Relative to Beneficials
Mean	0.20	1.20	0.00
St. Diviation	0.42	1.32	0.00

Bacteria & Fungi	Actinobacteria (µg/g)	Oomycetes (µg/g)	Av. Hyphal Diameter (µg)
Results	18.40	1.3363579969	1.50
Comments			
Expected Range	Relative to Beneficials	Relative to Beneficials	< 2.5
Mean	0.01	0.00	
St. Diviation	0.03	0.00	

Bacteria & Fungi	Bacteria (µg/g)	Fungi (µg/g)	Av. Hyphal Diameter (µg)
Results	3,199.66	1,796.03	2.97
Comments			
Expected Range	300 - 3,000	300 - 3,000	3 - 12
Mean	31.40	0.17	
St. Diviation	11.95	0.17	

Comments:

Sample was incubated in distilled water @ 55 degrees F for 48 hours. Fungal spores in 100% of FOV(fields of view). VERY HIGH fungal spore component throughout sample, between 5-25 spores per field. Active fungi was present and in diveristy >4 morphologies. VERY LOW Oomycete fungi aka water mold fungus(good). Actino bacteria present which indicates high moisture environment. Protozoa component was exclusively aerobic, flagellate and amoebe dominate. Bacteria were in both coccus and bacillus form, with high motility. Nematodes were present both bacterial feeding as well as the Predatory nematode, both are considered highly beneficial. No microarthropods. Material appeared very mature and decomposed, exhibiting high humus substance content-both fulvic and humic acid quality.