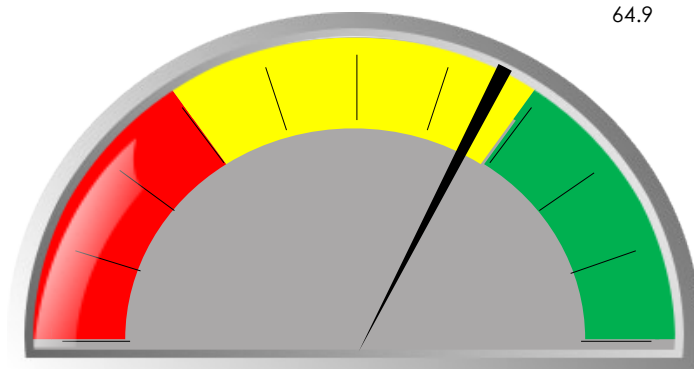


Name: <b>MMAPS</b>	Sample: <b>Bryant Ussher Eastwell Forest</b>	Analysis no.: <b>2550-2-MWSC</b>	Date: <b>17/06/2020</b>
<b>Customer name</b>	MMAPS	<b>Date received</b>	17/06/2020
<b>Client name</b>	Bryant Ussher	<b>Agent</b>	Microbiology Laboratories A
<b>Sample name</b>	Bryant Ussher Eastwell Forest	<b>Advisor</b>	
<b>Type</b>	Soil	<b>Authorised by</b>	Dr Maria Manjarrez
<b>Date sampled</b>	15/06/2020	<b>Analysis no.</b>	2550-2-MWSC

## Compost Indicators

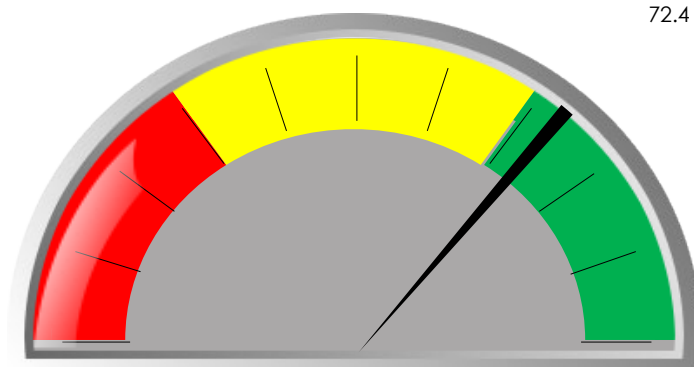
### Compost Maturity

64.9

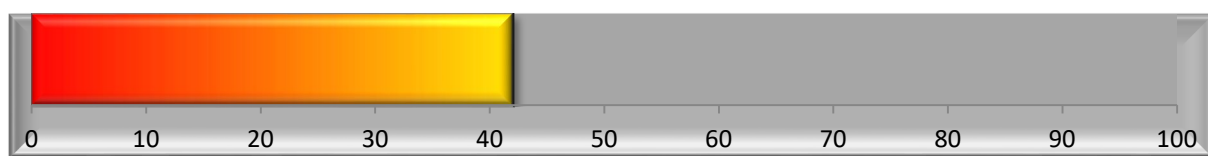


### Disease Suppression

72.4



### Overall Microbial Balance



For more information about these indicators visit us at [www.microbelabs.com.au](http://www.microbelabs.com.au)

Name: **MMAPS**

Sample: **Bryant Ussher Eastwell Forest**

Analysis no.: **2550-2-MWSC** Date: **17/06/2020**

## Key Microbe Groups

Group	Biomass (mg/kg)	
	Yours	Guide
<b>Total microorganisms</b>	<b>23.2</b>	50.0
<b>Total bacteria</b>	<b>3.4</b>	15.0
<b>Total fungi</b>	<b>19.1</b>	33.8
<b>Bacteria</b>		
Pseudomonas	<b>1.146</b>	1.000
Actinomycetes	<b>0.708</b>	1.000
Gram positive	<b>1.324</b>	4.000
Gram negative	<b>2.048</b>	11.000
Methane oxidisers	<b>0.000</b>	0.500
Sulphur reducers	<b>0.051</b>	< 0.005
True anaerobes	<b>0.056</b>	< 0.005
<b>Eukaryotes</b>		
Protozoa	<b>0.683</b>	1.300
Mycorrhizal fungi (including VAM)	<b>0.000</b>	10.000

Useful indicators	Yours		Guide
	Yours	Guide	
<b>Microbial diversity</b>	<b>18.6</b>		80.0
<b>Fungi : Bacteria</b>	<b>5.7</b>		2.3
<b>Bacterial stress</b>	<b>0.4</b>		< 0.5
<b>Microbial maturity</b>	<b>64.9</b>		< 80.0
<b>Disease suppression</b>	<b>72.4</b>		< 80.0
Nutrients held in microbes	Concentration (mg/kg)		Guide
	Yours	Guide	
Nitrogen (N)	<b>1.333</b>		3.450
Phosphorus (P)	<b>0.696</b>		1.500
Potassium (K)	<b>0.232</b>		0.500
Sulphur (S)	<b>0.232</b>		0.500
Calcium (Ca)	<b>0.232</b>		0.250
Magnesium (Mg)	<b>0.232</b>		0.250
Carbon (C)	<b>10.640</b>		22.688
<b>Poor</b>			<b>Good</b>

### Comments

Total microbial biomass was fair. Biomasses of other key desirable microbial groups ranged from good, to poor for bacteria in general. Except for Mycorrhizal fungi (VAM), which were not detected. VAM fungi require a living plant host to survive, so their absence is expected in commercial compost. Protozoa often appear after composts have aged for some time, and their presence here may be indicative of maturity. True anaerobes were elevated, which may indicate lack of aeration or waterlogging. The Fungi to Bacteria ratio was highly elevated when compared to the guide, but this may be advantageous if the aim was to produce a fungi-dominated compost. Microbial diversity was poor and needs to be improved. These results indicate that this compost would be a useful amendment, if microbial diversity is improved. This compost may also be helpful to soils with low fungi.

### Explanations

The Microbe Wise test measures the biomasses of key microbial groups directly from your sample. It uses molecular ('DNA type') technology to analyse the unique cell membrane 'fingerprint' of each microbe type to identify and quantify key groups important to soil and compost processes. This method is more accurate and precise than other methods, such as direct microscopy or plate culture, because it uses chemical extraction to remove the maximum amount of microbial material from the sample and is repeatable to 0.01% between replicate analyses. It measures organisms that are alive or recently dead (within a few days). Always compare your results with a control sample. Guide values are included as a help, but because a large number of factors affect microbiology the guide levels may not be optimal for your specific conditions. Visit [www.microbelabs.com.au](http://www.microbelabs.com.au) for more information.

### Disclaimer

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