

Compost or Manure Analysis

Sustainable Soil Management with the Mikhail Balance System

FILE NO : 1603117629

LANDTASIA ORGANIC FARMS P/L
PO BOX 116

BUNGENDORE, NSW 2621

SAMPLE ID : 50004

DATE ISSUED : 17/03/2016
DATE RECEIVED : 10/03/2016

CLIENT ID : LAN055
PHONE : 03 6238 0565
REFERENCE :
REFERENCE PHONE :

ANALYSIS REQUIRED : Total, Available
& CEC

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Analysis

ITEM	unit	RESULT
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Basic Measures:

pH (1:5 Water)			8.11
pH (1:5 0.01M CaCl ₂)			7.71
Electrical Conductivity	EC	μS/cm	5140
TOTAL SOLUBLE SALT	TSS	ppm	16962

Major Nutrients:

TOTAL NITROGEN	N	kg/t	13.8	(Major Nutrients in percentages) 1.38 %
TOTAL PHOSPHORUS	P	kg/t	4.4	0.442 %
TOTAL POTASSIUM	K	kg/t	13.5	1.35 %
TOTAL SULPHUR	S	kg/t	12.5	1.25 %

Total Cations:

TOTAL CALCIUM	Ca	%	2.3
TOTAL MAGNESIUM	Mg	%	0.387
TOTAL SODIUM	Na	%	0.359

Trace Minerals:

TOTAL COPPER	Cu	ppm	59.2
TOTAL ZINC	Zn	ppm	228
TOTAL IRON	Fe	ppm	8510
TOTAL MANGANESE	Mn	ppm	395
TOTAL COBALT	Co	ppm	4.2
TOTAL MOLYBDENUM	Mo	ppm	2.13
TOTAL BORON	B	ppm	19.6

Carbon Content:

TOTAL ORGANIC MATTER		%	26.8
TOTAL ORGANIC CARBON		%	13.4
CARBON NITROGEN RATIO	C:N		9.7
MOISTURE CONTENT	MC	%	12.7

Plant Available Nutrients

ITEM		unit	RESULT
AVAILABLE CALCIUM	Ca	ppm	5760
AVAILABLE MAGNESIUM	Mg	ppm	2100
AVAILABLE SODIUM	Na	ppm	1932
AVAILABLE NITROGEN	N	ppm	676
AVAILABLE PHOSPHORUS	P	ppm	685
AVAILABLE POTASSIUM	K	ppm	5616
AVAILABLE SULPHUR	S	ppm	666
AVAILABLE COPPER	Cu	ppm	24.4
AVAILABLE ZINC	Zn	ppm	154
AVAILABLE IRON	Fe	ppm	114
AVAILABLE MANGANESE	Mn	ppm	322
AVAILABLE COBALT	Co	ppm	1.38
AVAILABLE MOLYBDENUM	Mo	ppm	2.13
AVAILABLE BORON	B	ppm	8.68

Notes: These results represent the proportion of the Total nutrients (page 2) that will be immediately available for plant uptake.

ppm (parts per million) = mg/L (milligram per litre) = mg/kg (milligram per kilogram)
1 % = 10,000 ppm

Exchangeable Cations

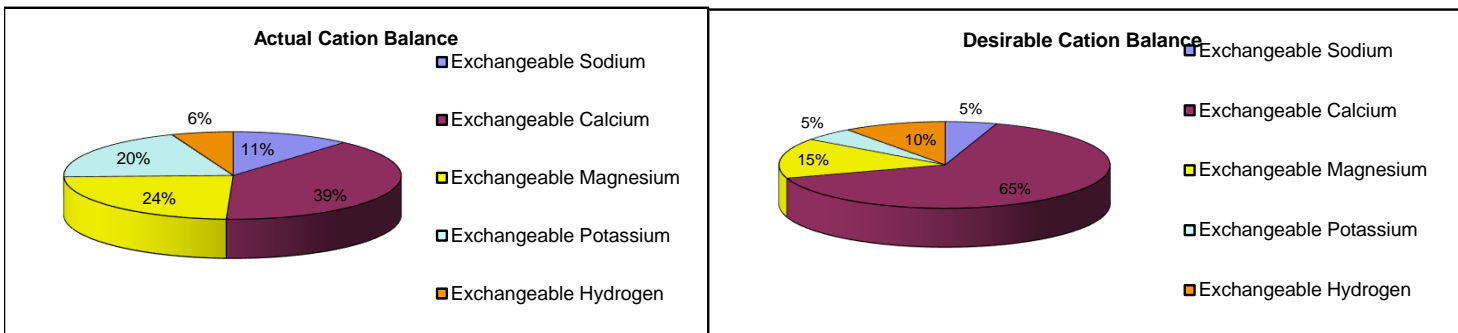
EXCHANGEABLE CATIONS RESULTS

CALCIUM	Ca	meq/100g of sample	24.61
MAGNESIUM	Mg	meq/100g of sample	14.96
SODIUM	Na	meq/100g of sample	7.18
POTASSIUM	K	meq/100g of sample	12.31
HYDROGEN	H	meq/100g of sample	3.70
ADJ. EXCH. HYDROGEN	H	meq/100g of sample	0
CATION EXCHANGE CAPACITY			62.76
ADJUSTED CEC			59.06
SATURATION BASE PERCENTAGE			95

meq = milliequivalent

EXCHANGEABLE CATION BALANCE % OF ADJUSTED CEC DESIRABLE

CALCIUM PERCENTAGE		41.67	65-70%
MAGNESIUM PERCENTAGE		25.33	12-15%
SODIUM PERCENTAGE	ESP	12.16	0.5-5%
POTASSIUM PERCENTAGE		20.84	3-5%
ADJ. HYDROGEN PERCENTAGE		0	<20%
CALCIUM / MAGNESIUM RATIO	Ca/Mg	1.65	2 - 4



CATION BALANCE AMENDMENTS (For optimum effectiveness on application)

GYPHUM REQUIREMENT	16.5 kg/m³			
LIME REQUIREMENT	0.0 kg/m³			
DOLOMITE REQUIREMENT	0.0 kg/m³			
MAGNESIUM SULPHATE	0.0 kg/m³	OR	MAGNESIUM OXIDE	0.0 kg/m³

NB. The effectiveness of the compost may be improved by mixing in the suggested materials (above) prior to application.

AQIS Approved Quarantine Site.
Victorian DPI accreditation to receive samples from PIZ and PCN infested zones.

Disclaimer: All results and/or recommendations in this report are made in good faith and are based on past and ongoing research by SWEP Pty Ltd. However, limitations such as the vagaries of climatic conditions mean that we cannot guarantee production of any crop by the use of this test and associated recommendations, and cannot be held responsible for any results obtained.