

AS4454:2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT

1 sample supplied by Landtasia Organic Farms on the 4 May, 2020 - Lab Job No. J3226.

Analysis requested by Simone Dilkara.

PO Box 116 BUNGENDORE NSW 2621

		Product Name: Product Type: Manufacturing Site: Manufactured Date: Test Code: Standard Applicable:	Sample 1 50018 Compost Landtasia Organic Farms 30/04/2020 CA-PACK-003 AS4454:2012	Guideline AS4454:2012 Composted Product
Parameter	Method Reference	J3226/1		
Bulk Density (kg/L)	AS4454:2012 Appendix J	0.3		..
Moisture Content (%)	AS4454:2012 Appendix I	51		> 25
pH	AS4454:2012 Appendix B	7.99		> 5
Electrical Conductivity (dS/m)		2.07		< 10
Total Organic Carbon (%)		20.9		≥ 20
Total Carbon (%)	AS4454:2012 Appendix C	29.4		..
Total Nitrogen (%)		1.07		≥ 0.8 <i>see note 7</i>
Carbon/Nitrogen Ratio	Calculation - Total Organic Carbon/Total Nitrogen	19.5		..
Estimated Organic Matter (% OM)	Calculation - Total Organic Carbon x 1.7	35.6		..
Ammonium Nitrogen (mg/L N)		131		< 200
Ammonium Nitrogen (mg/kg N)		655		..
Nitrate Nitrogen (mg/L N)	AS4454:2012 Appendix B	41.8		..
Nitrate Nitrogen (mg/kg N)		209		≥ 10 <i>see note 7</i>
Phosphate Phosphorus (mg/L P)		20.6		≤ 5 <i>see note 7</i>
Phosphate Phosphorus (mg/kg P)		103.2		..
Ammonium/Nitrate Ratio	Calculation - Ammonium/Nitrate	3.1		< 3.0
Nitrogen Drawdown Index (NDI ₁₅₀)	AS4454:2012 Appendix O	0.4		> 0.2
Total Calcium (%)		1.42		..
Total Magnesium (%)		0.26		..
Total Potassium (%)	AS4454:2012 Appendix D	0.65		..
Total Sodium (%)		0.08		< 1 Na
Total Sulphur (%)		0.09		..
Total Phosphorus (%)	AS4454:2012 Appendix D	0.21		≤ 0.1 P <i>see note 10</i>
Total Zinc (mg/kg)		102		< 300 Zn
Total Manganese (mg/kg)		275		..
Total Iron (mg/kg)		9,865		..
Total Copper (mg/kg)	AS4454:2012 Appendix D	25.9		< 150 Cu
Total Boron (mg/kg)		14.3		< 100 B
Total Silicon (mg/kg)		1,505		..
Total Aluminium (mg/kg)		6,258		..
Total Molybdenum (mg/kg)		1.28		..
Total Cobalt (mg/kg)	AS4454:2012 Appendix D	3.15		..
Total Selenium (mg/kg)		<1		< 5 Se
Total Cadmium (mg/kg)		<0.5		< 1 Cd
Total Lead (mg/kg)		13.0		< 150 Pb
Total Arsenic (mg/kg)		7.6		< 20 As
Total Chromium (mg/kg)	AS4454:2012 Appendix D	12.1		< 100 Cr
Total Nickel (mg/kg)		6.2		< 60 Ni
Total Mercury (mg/kg)		<0.1		< 1 Hg
Total Silver (mg/kg)		<1		..

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Parameter	Method Reference	J3226/1	
Polychlorinated Biphenyls (mg/kg)		<0.2	< 0.2
Organochlorine Pesticides - DDT, DDD, DDE (mg/kg)	Sub** - SGS Laboratories SE205940	<0.01	< 0.5
Organochlorine Pesticides - Other (mg/kg) ^{see note 9}		<0.01	< 0.02
Salmonella spp (Absent in 25 g)	Sub** - Symbio Laboratories B903126	Not Detected	Absent in 25 g
E. coli (MPN/g DW)	AS4454:2012 Appendix D	Not detected	< 100 MPN/g
Faecal Coliforms (MPN/g DW)		Not detected	< 1000 MPN/g
Particle Size Grading > 16 mm Sieve (%)		Nil	... ^{see note 5}
Particle Size Grading 5–16 mm Sieve (%)	AS4454:2012 Appendix G	5.3	... ^{see note 5}
Particle Size Grading < 5 mm Sieve (%)		94.7	... ^{see note 5}
Plastics Light Flexible or film > 5 mm (%)		<0.01	≤ 0.05
Stones and Lumps of Clay > 5 mm (%)	AS4454:2012 Appendix I	1.75	≤ 5
Glass, metal and rigid plastics > 2 mm (%)		0.04	≤ 0.5
Wettability (min)	AS4454:2012 Appendix E	1m 15s	< 5
Plant Growth Test - Root Elongation (mm)	AS4454:2012 Appendix F	33	> 60
Viable Plant Propagules (7 days)	AS4454:2012 Appendix M	Nil	...
Viable Plant Propagules (21 days)	AS4454:2012 Appendix M	N/A	Nil after 21 days

Notes:

- Methods from AS4454:2012 Composts, soil conditioners and mulches.
- Indicative guidelines are based on those in AS4454:2012 for raw mulches, pasteurized product, composted product, mature composts.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Conversions for 1 mg/kg = 1 ppm; 1 % = 10,000 ppm; kg/ha = mg/kg x 2.24.
- Coarse Mulch > 70% >16mm, Fine Mulch <20% >16mm and <20% <5mm, Soil Conditioner <20% >16mm.
- The chloride calculation of Cl mg/L = EC x 640 is considered an estimate, and most likely an over-estimate.
- Guide only to be used if a product claims to contribute to plant nutrition.
- The full test observes the potential growth of viable plant propagules in a 21 day test period. In order to pass there should be Nil after 21 days
- Other Organochlorines include: Aldrin, Dieldrin, Chlordane, Heptachlor, HCB, Lindane, BHC Other Organophosphorus include: Guthion, Bromophos-ethyl, Chlorpyrifos, Chlorpyrifos-methy, Diazinon, Dichlorvos, Dimethoate, Ethion, Fenitrothion, Malathion, Parathion, Ronnel.
- Guide only to be used if a product claims to be used for phosphorus sensitive plants. < 1 if applied to sandy soils
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Sub** - Analysis sub-contracted.
- All testing parameters have been facilitated by a NATA accredited laboratory.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions. These Terms and Conditions are available on the EAL website: scu.edu.au/eal, or on request.

Quality Checked: Brian Smith
 Compost & Landscape Soils Co-ordinator