

AS4454-2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT

1 sample supplied by Landtasia Organic Farms on the 6 June, 2018 - Lab Job No. H1159.

Analysis requested by Simone Dilkara.

(PO Box 116, BUNGENDORE, NSW, 2621)

		Product Name: Product Type: Manufacturing Site: Manufactured Date: Quantity Supplied: Test Required: Australian Standard Applicable:		Sample 1 Compost 50011 Compost Landtasia Organic Farms 4/06/2018 5 kg CA-PACK-003 AS4454-2012	Guideline (Composted Product)
Test Method - Appendix	Nutrient		Units	H1159/1	
B6	pH		na	7.5	>5
	Electrical Conductivity		dS/m	4.39	<10
	Soluble Phosphorus in solution	P	mg/L	65	≤5 <i>see note 5</i>
	Soluble Phosphorus dry mass equivalent	P	mg/kg	326	..
	Ammonium-N in solution	N	mg/L	41	<200
	Ammonium-N dry mass equivalent	N	mg/kg	203	..
I	Moisture Content		%	51	>25 <i>see note 6</i>
C6	Total Organic Carbon		%	22	≥20
	Organic Matter		%	37	..
	Total Nitrogen		%	1.3	≥0.8 <i>see note 7</i>
	Carbon: Nitrogen Ratio		%	16.3	..
D5.1.1	Sodium	Na	%	0.22	<1
	Calcium	Ca	%	2.33	..
	Magnesium	Mg	%	0.64	..
	Potassium	K	%	1.37	..
	Sulfur	S	%	0.28	..
	Phosphorus	P	%	0.83	≤0.1 <i>see note 5</i>
D5.1.1	Zinc	Zn	mg/kg	336	<300
	Iron	Fe	mg/kg	11,229	..
	Manganese	Mn	mg/kg	630	..
	Copper	Cu	mg/kg	84	<150
	Boron	B	mg/kg	22	<100
	Cobalt	Co	mg/kg	4.9	..
	Molybdenum	Mo	mg/kg	5.0	..
	Selenium	Se	mg/kg	1.6	<5
	Cadmium	Cd	mg/kg	<0.5	<1
	Lead	Pb	mg/kg	24	<150
	Arsenic	As	mg/kg	5.4	<20
	Chromium	Cr	mg/kg	19	<100
	Nickel	Ni	mg/kg	9.8	<60
	Mercury	Hg	mg/kg	<0.1	<1
	Aluminium	Al	mg/kg	5,387	..
	Silicon	Si	mg/kg	2,727	..
Silver	Ag	mg/kg	<1	..	

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3.1 (C) ^{see note 15}	Polychlorinated Biphenyls		mg/kg	<0.2	<0.2
	Organochlorine Pesticides - DDT, DDD, DDE		mg/kg	<0.01	<0.5
	Organochlorine Pesticides - Other ^{see note 9}		mg/kg	<0.01	<0.02
3.1 (C) ^{see note 16}	Salmonella		absent/25 g	Absent	Absent
	E coli		mpn/g	<10	<100
	Faecal Coliforms		mpn/g	20	<1,000
G	Particle Size Grading > 16 mm Sieve		%	0.6	.. ^{see note 10}
	Particle Size Grading 5-16 mm Sieve		%	16.3	.. ^{see note 10}
	Particle Size Grading < 5 mm Sieve		%	83.4	.. ^{see note 10}
I	Plastics Light Flexible or film > 5 mm		%	<0.01	≤0.05
	Stones and Lumps of Clay > 5 mm		%	0.7	≤5
	Glass, metal and rigid plastics > 2 mm		%	<0.01	≤0.5
E	Wettability		minutes	2m 08s	<5
B6	Nitrate-N in solution	N	mg/L	180	..
B6	Nitrate-N dry mass equivalent	N	mg/kg	902	≥10 ^{see note 7}
N3.2	Ammonium:Nitrate Ratio		Ratio	0.2	<3.0
M	Viable plant Propagules		21 days	Nil after 7 days	.. ^{see note 14}

Testing notes

- All analysis is tested according to AS4454-2012
- mg/Kg = ppm; 1% = 10,000ppm
- Calcium Carbonate required if pH > 8.0
- ".." denotes no requirement
- Guide only to be used if a product claims to be used for phosphorus sensitive plants. < 1 if applied to sandy soils
- If OM > 40% maximum moisture = %OM + 6; If OM < 40% maximum moisture = %OM + 10
- Guide only to be used if a product claims to contribute to plant nutrition
- Organic Matter is Organic Carbon x 1.7
- 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
- Coarse Mulch > 70% >16mm, Fine Mulch <20% >16mm and <20% <5mm, Soil Conditioner <20% >16mm
- Analysis completed according to TMECC 05.05-B; Composted product pass >80%, Mature compost pass > 90%
- N/A reported for additional analyses not required under the standard
- (BIOMASS): Reporting limit has been raised due to interference from analytes (other than those being tested) in the sample
- 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
- Analysis sub-contracted - SGS report no. SE180253 RO

Quality Checked: Brian Smith

Co-ordinator, Compost and Landscape Soils testing