

AS4454-2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT

1 sample supplied by Landtasia Organic Farms on the 21st October, 2016 - Lab Job No. F4128

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 50005 Compost Landtasia 19/10/2016 10 kg CA-PACK-003 AS4454-2012	Requirement (Composted Product)	Requirement (Mature Compost)	Status
Test Method - Appendix	Nutrient	Units	F4128/1			
B6	pH	na	7.3	>5	>5	Pass
	Electrical Conductivity	dS/m	5.06	<10	<10	Pass
	Soluble Phosphorus in solution	P mg/L	21.4	≤5 <i>see note 5</i>	≤5 <i>see note 5</i>	..
	Soluble Phosphorus dry mass equivalent	P mg/kg	107	..	..	..
	Ammonium-N in solution	N mg/L	1.2	<200	<100	Pass
I	Ammonium-N dry mass equivalent	N mg/kg	6.1	..	..	..
	Moisture Content	%	55	>25 <i>see note 6</i>	>25 <i>see note 6</i>	Pass
C6	Total Organic Carbon	%	15	≥20	≥20	Fail
	Organic Matter	%	26	..	..	..
	Total Nitrogen	%	1.7	≥0.8 <i>see note 7</i>	≥0.8 <i>see note 7</i>	..
	Carbon: Nitrogen Ratio	%	9.2	..	..	..
D5.1.1	Sodium	Na %	0.18	<1	<1	Pass
	Calcium	Ca %	2.24	..	..	..
	Magnesium	Mg %	0.39	..	..	..
	Potassium	K %	1.28	..	..	..
	Sulfur	S %	0.31	..	..	..
	Phosphorus	P %	0.45	≤0.1 <i>see note 5</i>	≤0.1 <i>see note 5</i>	..
D5.1.1	Zinc	Zn mg/kg	238	<300	<300	Pass
	Iron	Fe mg/kg	15,486	..	..	..
	Manganese	Mn mg/kg	443	..	..	..
	Copper	Cu mg/kg	60	<150	<150	Pass
	Boron	B mg/kg	21	<100	<100	Pass
	Cobalt	Co mg/kg	4.4	..	..	..
	Molybdenum	Mo mg/kg	4.8	..	..	..
	Selenium	Se mg/kg	2.9	<5	<5	Pass
	Cadmium	Cd mg/kg	<0.5	<1	<1	Pass
	Lead	Pb mg/kg	50	<150	<150	Pass
	Arsenic	As mg/kg	9.4	<20	<20	Pass
	Chromium	Cr mg/kg	19	<100	<100	Pass
	Nickel	Ni mg/kg	10	<60	<60	Pass
	Mercury	Hg mg/kg	<0.1	<1	<1	Pass
3.1(C)	Aluminium	Al mg/kg	5,121	..	..	..
	Silicon	Si mg/kg	1,081	..	..	..
	Silver	Ag mg/kg	<1	..	..	..
	Polychlorinated Biphenyls	mg/kg	<0.1	<0.2	<0.2	Pass
3.1(C)	Organochlorines - DDT, DDD, DDE	mg/kg	<0.02	<0.5	<0.5	Pass
	Organochlorines - Other <i>see note 9</i>	mg/kg	<0.02	<0.02	<0.02	Pass
	Salmonella	number/50 g	Absent	Absent	Absent	Pass
G	Faecal Coliforms	mpn/g	73	<1,000	<1,000	Pass
	Particle Size Grading - >16mm Sieve	%	Nil	.. <i>see note 10</i>	.. <i>see note 10</i>	..
	Particle Size Grading - >5mm<16mm Sieve	%	11.7	.. <i>see note 10</i>	.. <i>see note 10</i>	..
I	Particle Size Grading - <5mm Sieve	%	88.3	.. <i>see note 10</i>	.. <i>see note 10</i>	..
	Plastics Light Flexible or film >5mm	%	<0.01	≤0.05	≤0.05	Pass
	Stones and Lumps of Clay >5mm	%	2.6	≤5	≤5	Pass
E	Glass, metal and rigid plastics > 2mm	%	<0.1	≤0.5	≤0.5	Pass
	Wettability	minutes	0m 39s	<5	<5	Pass
H	Calcium Carbonate	%	..	..	..	..
B6	Nitrate-N in solution	N mg/L	217.9	..	..	..
B6	Nitrate-N dry mass equivalent	mg/kg	1,090	≥10 <i>see note 7</i>	≥10 <i>see note 7</i>	Pass
N3.2	Ammonium:Nitrate Ratio	Ratio	0.01	<3.0	<0.5	Pass
TMECC	Plant Growth Test (Bioassay) - Germination	%	..	.. <i>see note 11</i>	.. <i>see note 11</i>	..
O	Nitrogen Drawdown Index	NDI	..	>0.2	>0.5	..
	Oxygen Consumption Rate	mgO ₂ /kg/min	..	..	..	..
	Specific Oxygen Uptake Rate	mgO ₂ /gVVS/hour	..	<3	≤1	..
M	7 Days Viable plant Propagules	7 days	Nil	.. <i>see note 14</i>	.. <i>see note 14</i>	..

Remarks: All testing was done according to AS4454-2012 and all completed tests have passed except for Total Organic Carbon.

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
- 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