

AS4454-2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT

1 sample supplied by Landtasia Organic Farms on the 21 January, 2015 - Lab Job No. D9066

Analysis requested by Simone Dilkara.

(PO Box 116, BUNGENDORE, NSW, 2621)

				Block ID:	Sample 1	Composted Product	Mature Compost
				Crop:	50002		
				Client:	Compost		
					Landtasia Organic Farms		
Test Method - Appendix	Nutrient		Units	D9066/1			
B6	pH		na	8.3	>5	>5	
	Electrical Conductivity		dS/m	3.32	<10	<10	
	Soluble Phosphorus in solution	P	mg/L	18	≤5 <i>see note 5</i>	≤5 <i>see note 5</i>	
	Soluble Phosphorus dry mass equivalent	P	mg/kg	91	..	..
	Ammonium-N in solution	N	mg/L	57	<200	<100	
	Ammonium-N dry mass equivalent	N	mg/kg	287	..	..
I	Moisture Content		%	48	>25 <i>see note 6</i>	>25 <i>see note 6</i>	
C6	Total Organic Carbon		%	16	≥20	≥20	
	Organic Matter		%	27	..	..
	Total Nitrogen		%	1.2	≥0.8 <i>see note 7</i>	≥0.8 <i>see note 7</i>	
	Carbon: Nitrogen Ratio		%	14	..	..
D5.1.1	Sodium	Na	%	0.22	<1	<1	
	Calcium	Ca	%	2.08	..	..
	Magnesium	Mg	%	0.46	..	..
	Potassium	K	%	0.89	..	..
	Sulfur	S	%	0.21	..	..
	Phosphorus	P	%	0.34	≤0.1 <i>see note 5</i>	≤0.1 <i>see note 5</i>	
D5.1.1	Zinc	Zn	mg/kg	313	<300	<300	
	Iron	Fe	mg/kg	10,944	..	..
	Manganese	Mn	mg/kg	405	..	..
	Copper	Cu	mg/kg	62	<150	<150	
	Boron	B	mg/kg	23	<100	<100	
	Molybdenum	Mo	mg/kg	4.3	..	..
	Selenium	Se	mg/kg	1.9	<5	<5	
	Cadmium	Cd	mg/kg	<0.5	<1	<1	
	Lead	Pb	mg/kg	79	<150	<150	
	Arsenic	As	mg/kg	9.0	<20	<20	
	Chromium	Cr	mg/kg	16	<100	<100	
	Nickel	Ni	mg/kg	13	<60	<60	
	Mercury	Hg	mg/kg	<0.1	<1	<1	
3.1(C)	Polychlorinated Biphenyls		mg/kg	<0.1	<0.2	<0.2	
	Organochlorines - DDT,DDD,DDE		mg/kg	<0.02	<0.5	<0.5	
	Organochlorines - Other <i>see note 9</i>		mg/kg	<0.02	<0.02	<0.02	
	Salmonella		number/50 g	Absent	Absent	Absent	
	Ecoli		mpn/g	10-99			
	Faecal Coliforms		mpn/g	10-99	<1,000	<1,000	
G	Particle Size Grading - >16mm Sieve		%	Nil	.. <i>see note 10</i>	.. <i>see note 10</i>	
	Particle Size Grading - >5mm<16mm Sieve		%	28.7	.. <i>see note 10</i>	.. <i>see note 10</i>	
	Particle Size Grading - <5mm Sieve		%	71.3	.. <i>see note 10</i>	.. <i>see note 10</i>	
I	Plastics Light Flexible or film >5mm		%	<0.01	≤0.05	≤0.05	
	Stones and Lumps of Clay >5mm		%	6.6	≤5	≤5	
	Glass, metal and rigid plastics > 2mm		%	<0.1	≤0.5	≤0.5	
E	Wettability		minutes	0m 38s	<5	<5	
H	Calcium Carbonate		%	5.1	..	..
B6	Nitrate-N in solution	N	mg/L	6			
B6	Nitrate-N dry mass equivalent		mg/kg	28	≥10 <i>see note 7</i>	≥10 <i>see note 7</i>	
N3.2	Ammonium:Nitrate Ratio		Ratio	10.2	<3.0	<0.5	
F	Plant Growth Bioassay (Toxicity)		na	..	.. <i>See note 11</i>	.. <i>See note 11</i>	
O	Nitrogen Drawdown Index		NDI	..	>0.2	>0.5	
	Oxygen Consumption Rate		mgO2/Kg/min	..	..	..
	Specific Oxygen Uptake Rate		mgO2/gBVS/hour	..	<3	≤1	

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
- A pass is > 60mm root growth
- N/A reported for additional analyses not required under the standard
- OCP/PCBs (BIOMASS): Reporting limit has been raised due to interference from analytes (other than those being tested) in the sample

THE COMPOST ORDER 2014¹

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			Block ID:	Sample 1	2014
			Crop:	Compost	<i>The Compost Order</i>
			Client:	Landtasia Organic Farms	<i>Requirements</i>
Test Method - Appendix	Nutrient	Units	D9066/1		
3.1c	Salmonella spp	number/50 g	Absent		<i>Absent in 50 g</i>
	E. coli	mpn/g	10-99		<100
	Faecal Coliforms	mpn/g	10-99		<1,000
I	Plastics Light Flexible or film >5mm	% <small>see note 4</small>	<0.01		≤0.05
	Glass, metal and rigid plastics > 2mm	% <small>see note 4</small>	<0.1		≤0.5

Notes:

1. Legislation - Resource Recovery Order under Part 9, Clause 93 of Protection of the Environment Operations (Waste) Regulation 2014
2. All analysis is tested according to AS4454-2012
3. mpn = most probable number
4. Absolute maximum (% 'dry weight' unless otherwise specified)