

Certificate of Analysis E24-00-0262

Client:	Landtasia Organic Farms	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	50038 Windrow 5	Request ID:	EAL/E24-00-0262
Number of samples:	1	Report ID:	E24-00-0262_RCOAP1_1
Date samples received:	29 October 2024	Issue date:	20 November 2024

Authorised by:	Brian Smith
Position:	Senior Technical Officer



Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

Certificate of Analysis

Request ID: EAL/E24-00-0262 Report ID: E24-00-0262_RCOAP1_1 Issue date: 20 November 2024

			Client Sample ID:	50038 Windrow 5
			Sample Date:	23 October 2024
			Manufacturing Date:	23 October 2024
			EAL Sample ID:	E24-00-0262-0001
Parameter	Unit	Method Reference	LOR	---
As Supplied Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.60
Dry Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.34
Moisture Content 105°C	%	** AS4454:2012 Appendix I	<0.1	44
pH	---	** AS4454:2012 Appendix B	---	7.60
Electrical Conductivity	dS/m	** AS4454:2012 Appendix B	---	1.88
Total Organic Carbon	%	Inhouse S15b	<0.10	32.4
Organic Matter	%	Inhouse S15b	---	55.0
Total Carbon	%	Inhouse S4a	<0.02	29.3
Total Nitrogen	%	Inhouse S4a	<0.02	1.60
Carbon / Nitrogen Ratio	---	Inhouse S4a	<0.1	18.3
Ammonium Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	4.80
Ammonium Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	24.0
Nitrate Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	2.92
Nitrate Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	14.6
Ammonium/Nitrate Ratio	Ratio	** AS4454:2012 Appendix B	---	1.64
Phosphate Phosphorus	mg/L P	** AS4454:2012 Appendix B	---	18.4
Phosphate Phosphorus	mg/kg P	** AS4454:2012 Appendix B	<0.5	92.0
Nitrogen Drawdown Index	---	** AS4454 Appendix O	>1	0.76
Sulfur	%	** ICPOES Total S - Compost	<0.01	0.17
Calcium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	1.94
Magnesium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.40
Potassium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	1.07
Sodium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.08
Phosphorus	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.34
Zinc	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	178
Manganese	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	466
Iron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	11800
Copper	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	38.8
Boron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	27.3
Silicon	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	1720
Aluminium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	6150
Molybdenum	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.2	2.30
Cobalt	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	4.77
Selenium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	1.26
Lead	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	17.5
Arsenic	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	8.16
Chromium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	20.5
Nickel	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	7.80
Mercury	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.1	< 0.1
Silver	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	< 1

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			EAL Sample ID:	E24-00-0262-0001
Parameter	Unit	Method Reference	LOR	---
Symbio Report No.	---	** Subcontracted Symbio	---	B1666681-A
Aldrin	mg/kg	** Subcontracted Symbio	<0.02	<0.020
alpha-Endosulfan	mg/kg	** Subcontracted Symbio	<0.02	<0.020
beta-Endosulfan	mg/kg	** Subcontracted Symbio	<0.02	<0.050
alpha-BHC	mg/kg	** Subcontracted Symbio	<0.02	<0.020
beta-BHC	mg/kg	** Subcontracted Symbio	<0.02	<0.020
cis-Chlordane	mg/kg	** Subcontracted Symbio	<0.02	<0.020
delta-BHC	mg/kg	** Subcontracted Symbio	<0.02	<0.020
Dieldrin	mg/kg	** Subcontracted Symbio	<0.02	<0.020
Endosulfan Sulphate	mg/kg	** Subcontracted Symbio	<0.02	<0.050
Endrin	mg/kg	** Subcontracted Symbio	<0.02	<0.050
gamma-BHC (Lindane)	mg/kg	** Subcontracted Symbio	<0.02	<0.020
Heptachlor	mg/kg	** Subcontracted Symbio	<0.02	<0.020
Heptachlor epoxide	mg/kg	** Subcontracted Symbio	<0.02	<0.020
HCB	mg/kg	** Subcontracted Symbio	<0.02	<0.020
Methoxychlor	mg/kg	** Subcontracted Symbio	<0.02	<0.020
pp-DDD	mg/kg	** Subcontracted Symbio	<0.02	<0.020
pp-DDE	mg/kg	** Subcontracted Symbio	<0.02	<0.020
pp-DDT	mg/kg	** Subcontracted Symbio	<0.02	<0.020
trans-Chlordane	mg/kg	** Subcontracted Symbio	<0.02	<0.050
Endrin ketone*	mg/kg	** Subcontracted Symbio	<0.02	<0.020
op-DDT*	mg/kg	** Subcontracted Symbio	<0.02	<0.020
Oxychlordane*	mg/kg	** Subcontracted Symbio	<0.02	<0.050
op-DDD*	mg/kg	** Subcontracted Symbio	<0.02	<0.020
op-DDE*	mg/kg	** Subcontracted Symbio	<0.02	<0.020
Symbio Report No.	---	** Subcontracted Symbio	---	B1666681-A
PCB 1016	mg/kg	** Subcontracted Symbio	<0.1	<0.1
PCB 1232	mg/kg	** Subcontracted Symbio	<0.1	<0.1
PCB 1242	mg/kg	** Subcontracted Symbio	<0.1	<0.1
PCB 1248	mg/kg	** Subcontracted Symbio	<0.1	<0.1
PCB 1254	mg/kg	** Subcontracted Symbio	<0.1	<0.1
PCB 1260	mg/kg	** Subcontracted Symbio	<0.1	<0.1
PCB 1221	mg/kg	** Subcontracted Symbio	<0.1	<0.1
PCB Total	mg/kg	** Subcontracted Symbio	<0.7	<0.7
Symbio Report No.	---	** Subcontracted Symbio	---	B1666681-B
Salmonella spp.	/25g	** Subcontracted Symbio	<0	ND
Symbio Report No.	---	** Subcontracted Symbio	---	B1666681-A
Escherichia coli	MPN/g	** Subcontracted Symbio	---	<3.0
Symbio Report No.	---	** Subcontracted Symbio	---	B1666681-B
Faecal Coliforms	MPN/g	** Subcontracted Symbio	---	<3.0
Particle Size Grading > 16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	< 0.01
Particle Size Grading 5–16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	13.1
Particle Size Grading < 5 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	86.9
Plastics Light Flexible or film > 5 mm	%	** AS4454:2012 Appendix I	<0.01	< 0.01
Stones and Lumps of Clay > 5 mm	%	** AS4454:2012 Appendix I	<0.01	13.09
Glass, metal and rigid plastics > 2 mm	%	** AS4454:2012 Appendix I	<0.01	21.50
Wettability (min)	---	** AS4454:2012 Appendix E	---	4m 3s
Plant Growth Test - Root Elongation	mm	** AS4454:2012 Appendix F	---	80.9

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Notes:

- Conversions to kg/ha = mg/kg x 2.24.
- The chloride estimate result (Electrical Conductivity x 640) is considered an estimate, and is generally an over-estimate.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Total Phosphorus guide only to be used if a product claims to be used for phosphorus sensitive plants.
- Nitrate guide only to be used if a product claims to contribute to plant nutrition.
- The full propagule 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.
- LOR' means less than limit of reporting. 'ND' means not detected. 'NA' means not applicable. 'NR' means not requested.
- Analysis completed in a NATA accredited laboratory.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Indicative guidelines are based on those in AS4454:2012 for raw mulches, pasteurized product, composted product, mature composts.
- Methods from AS4454:2012 Composts, soil conditioners and mulches.
- Conversions for 1 mg/kg = 1 ppm 1 % = 10,000 ppm.
- Coarse Mulch: > 70% of sample is > 16 mm. Fine Mulch: 20% of sample is > 16 mm and 20% is 5 mm. Soil Conditioner: 20% of sample is > 16 mm.