

### Soil - Certificate of Analysis - E25-00-5523

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Customer reference:	Dropp Irrigation 2025	Request ID:	EAL /E25-00-5523
Number of samples:	1	Report ID:	E25-00-5523_EALS1_1
Date samples received:	21 May 2025	Issue date:	05 June 2025

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/E25-00-5523 Report ID: E25-00-5523\_EALS1\_1 Issue date: 05 June 2025

Client Sample ID:				DROPP irrigation 2025	---
Sample Date:				13 May 2025	---
Sampled By:				Ken	---
Your Client:				JRR	---
EAL Sample ID:				E25-00-5523-0001	AS4454:2012 Composted Product
Parameter	Unit	Method Reference	LOR	---	---
Moisture Content 105°C	%	** AS4454:2012 Appendix I	<0.1	41	>25
pH	---	** Rayment & Lyons 2011 - 4A1 & 3A1 (1:5 Water)	---	7.86	>5
Electrical Conductivity	dS/m	** Rayment & Lyons 2011 - 4A1 & 3A1 (1:5 Water)	---	1.40	<10
Total Carbon	%	Inhouse S4a	<0.03	21.5	≥20
Total Nitrogen	%	Inhouse S4a	<0.02	1.79	≥0.8 See Notes
Carbon / Nitrogen Ratio	---	Inhouse S4a	<0.1	12.0	---
Organic Matter	%	Inhouse S4a	---	36.6	---
Sulfur	%	** ICPOES Total S - Compost	<0.01	0.17	---
Calcium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	3.05	---
Magnesium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.45	---
Potassium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.64	---
Sodium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.08	<1
Phosphorus	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.51	≤0.1 See Notes
Zinc	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	204	<300
Manganese	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	396	---
Iron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	13300	---
Copper	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	45.1	<150
Boron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	39.0	<100
Silicon	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	5530	---
Aluminium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	5700	---
Molybdenum	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.2	1.18	---
Cobalt	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	8.19	---
Selenium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	0.58	<5
Nitrogen : Sulfur Ratio	---	** Calculation	<0.1	10.4	---
Nitrogen : Phosphorus Ratio	---	** Calculation	<0.1	3.5	---
Nitrogen : Potassium Ratio	---	** Calculation	<0.1	2.8	---
Chloride	mg/kg	** Rayment & Lyons 2011 - 5A3a	<0.1	169	---
Phosphorus Sorption	mg P/kg	** Inhouse S18b (Based on Abbott 1985)	<1	70.1	---
Phosphorus Sorption Index	---	** Inhouse S18b (Based on Abbott 1985)	<1	20	---
Nitrate-N - KCl extractable	mg/kg	** Inhouse S37	<0.1	397	---
Ammonium-N - KCl extractable	mg/kg	** Inhouse S37	<0.1	40.1	---

### 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.

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### Notes:

- 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.
- \*\* denotes NATA accreditation does not cover the performance of this service.
- .. denotes not requested, no data/information or no guidelines available.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at [scu.edu.au/eal](http://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 a composted product.
- Methods from Rayment and Lyons, 2011. Soil Chemical Methods - Australasia. CSIRO Publishing, Collingwood.
- All analysis is on a dry weight (DW) basis - testing conducted on finely ground sample dried at 40 °C, with results corrected to 105 °C.
- All results presented as a 40°C oven dried weight. Soil sieved and lightly crushed to < 2 mm.
- Conversions for 1 mg/kg = 1 ppm 1 % = 10,000 ppm.
- Conversions for 1 cmol+/kg = 230 mg/kg Sodium, 390 mg/kg Potassium, 122 mg/kg Magnesium, 200 mg/kg Calcium