

COMPOST 'TOTALS' ANALYSIS REPORT

1 sample supplied by JR Richards & Sons Pty Ltd on the 7 May 2024. Lab Job No. R3923.  
Analysis requested by Phil Hay. **Your Job: PO TBA DROPP Irrigation 2024.**

15 Brickworks Lane SOUTH GRAFTON NSW 2460

		Product Name: Product Type: Manufacturing Site: Manufactured Date: Test Applicable:	Sample 1 DROPP Irrigation 2024 Soil JR Richards & Sons 3/05/2024 CA-PACK-001	Guideline  AS4454:2012 Composted Product
Parameter	Method Reference	R3923/1		
Moisture Content (%)	**Inhouse S2 (105°C)	55	> 25	
pH	Rayment & Lyons 2011 - 4A1 (1:5 Water)	9.07	> 5	
Electrical Conductivity (dS/m)	Rayment & Lyons 2011 - 3A1 (1:5 Water)	3.88	< 10	
Chloride (mg/kg)	**Rayment & Lyons 2011 - 5A3a	2,797	..	
Total Carbon (%)	Inhouse S4a (LECO Trumac Analyser)	24.9	≥ 20	
Total Nitrogen (%)		2.20	≥ 0.8	
Carbon/Nitrogen Ratio	**Calculation - Total Carbon/Total Nitrogen	11	..	
Estimated Organic Matter (% OM)	**Calculation - Total Carbon x 1.7	42.3	..	
Total Calcium (%)	Rayment & Lyons 2011 - 17C1 Aqua Regia Total Salts	4.18	..	
Total Magnesium (%)		0.69	..	
Total Potassium (%)		1.27	..	
Total Sodium (%)		0.19	< 1 Na	
Total Sulphur (%)		0.26	..	
Total Phosphorus (%)	Rayment & Lyons 2011 - 17C1 Aqua Regia	0.63	≤ 0.1 P	
Total Zinc (mg/kg)	Rayment & Lyons 2011 - 17C1 Aqua Regia Total Metals	234	< 300 Zn	
Total Manganese (mg/kg)		440	..	
Total Iron (mg/kg)		14,816	..	
Total Copper (mg/kg)		51.1	< 150 Cu	
Total Boron (mg/kg)		45.4	< 100 B	
Total Silicon (mg/kg)		1,522	..	
Total Aluminium (mg/kg)		5,018	..	
Total Molybdenum (mg/kg)	Rayment & Lyons 2011 - 17C1 Aqua Regia Total Metals	<1	..	
Total Cobalt (mg/kg)		7.39	..	
Total Selenium (mg/kg)		<1	< 5 Se	
Nitrogen/Sulphur Ratio	**Calculation - Total Nitrogen/Total Sulfur	8.5	..	
Nitrogen/Phosphorus Ratio	**Calculation - Total Nitrogen/Total Phosphorus	3.5	..	
Nitrogen/Potassium Ratio	**Calculation - Total Nitrogen/Total Potassium	1.7	..	
Nitrate Nitrogen (mg/kg N)	**Inhouse S37 (KCl)	132	..	

Notes:

1. All analysis is dry weight – Samples reported on an oven dried basis at 105°C (testing conducted on finely ground sample dried at 40°C).

2. Methods from Rayment and Lyons, 2011. Soil Chemical Methods - Australasia.CSIRO Publishing: Collingwood.

3. Indicative guidelines are based on those in AS4454:2012 for a composted product.

4. Total Acid Extractable Nutrients indicate a store of nutrients.

5. Conversions for 1 mg/kg = 1 ppm; 1 % = 10,000 ppm

6. Conversions to kg/ha = mg/kg x 2.24

7. The chloride calculation of Cl mg/L = EC x 640 is considered an estimate, and most likely an over-estimate

8. < LOR Less than limit of reporting. ND Not detected. NA Not applicable. NR Not required.

9. Testing completed in a NATA accredited laboratory.

10. Analysis conducted between sample arrival date and reporting date.

11. This report is not to be reproduced except in full. Results only relate to the item tested.

12. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer [SCU.edu.au/eal/t&cs](http://scu.edu.au/eal/t&cs) or on request).

13. This report was issued on 23/05/2024.

Quality Checked: Brian Smith  
Compost & Landscape Soils Co-ordinator