

COMPOST 'TOTALS' ANALYSIS REPORT

1 sample supplied by JR Richards & Sons Pty Ltd on the 14 September 2023. Lab Job No. P5282.

Analysis requested by Indika Kelasekara. **Your Job: Irrigation Area - DROPP.**

15-19 Brickworks Lane SOUTH GRAFTON NSW 2461

		Product Name:	Sample 1	Guideline
		Product Type:	Soils Sample- Irrigation area- DROPP	AS4454:2012 Composted Product
		Manufacturing Site:	Compost	
		Manufactured Date:	JR Richards & Sons	
		Test Applicable:	11/09/2023 CA-PACK-001	
Parameter	Method Reference	P5282/1		
Moisture Content (%)	**Inhouse S2 (105°C)	44		> 25
pH	Rayment & Lyons 2011 - 4A1 (1:5 Water)	8.96		> 5
Electrical Conductivity (dS/m)	Rayment & Lyons 2011 - 3A1 (1:5 Water)	3.46		< 10
Chloride (mg/kg)	**Rayment & Lyons 2011 - 5A3a	2,844		..
Total Carbon (%)	Inhouse S4a (LECO Trumac Analyser)	16.9		≥ 20
Total Nitrogen (%)	**Calculation - Total Carbon/Total Nitrogen	1.47		≥ 0.8
Carbon/Nitrogen Ratio	**Calculation - Total Carbon x 1.7	11.5		..
Estimated Organic Matter (% OM)		28.7		..
Total Calcium (%)		1.87		..
Total Magnesium (%)		0.47		..
Total Potassium (%)	Rayment & Lyons 2011 - 17C1 Aqua Regia Total Salts	1.13		..
Total Sodium (%)		0.16		< 1 Na
Total Sulphur (%)		0.16		..
Total Phosphorus (%)	Rayment & Lyons 2011 - 17C1 Aqua Regia	0.33		≤ 0.1 P
Total Zinc (mg/kg)		138		< 300 Zn
Total Manganese (mg/kg)		253		..
Total Iron (mg/kg)		15,963		..
Total Copper (mg/kg)	Rayment & Lyons 2011 - 17C1 Aqua Regia Total Metals	34.3		< 150 Cu
Total Boron (mg/kg)		24.7		< 100 B
Total Silicon (mg/kg)		1,808		..
Total Aluminium (mg/kg)		6,617		..
Total Molybdenum (mg/kg)		1.15		..
Total Cobalt (mg/kg)	Rayment & Lyons 2011 - 17C1 Aqua Regia Total Metals	7.50		..
Total Selenium (mg/kg)		<1		< 5 Se
Nitrogen/Sulphur Ratio	**Calculation - Total Nitrogen/Total Sulfur	9.14		..
Nitrogen/Phosphorus Ratio	**Calculation - Total Nitrogen/Total Phosphorus	4.41		..
Nitrogen/Potassium Ratio	**Calculation - Total Nitrogen/Total Potassium	1.30		..
Phosphorus Buffer Index	**Rayment & Lyons 2011 - 9I4b (PBI)	200		..
Nitrate Nitrogen (mg/kg N)	**Inhouse S37 (KCI)	397		..

Notes:

- 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).
- Methods from Rayment and Lyons, 2011. Soil Chemical Methods - Australasia. CSIRO Publishing: Collingwood.
- Indicative guidelines are based on those in AS4454:2012 for a composted product.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Conversions for 1 mg/kg = 1 ppm; 1 % = 10,000 ppm
- Conversions to kg/ha = mg/kg x 2.24
- The chloride calculation of Cl mg/L = EC x 640 is considered an estimate, and most likely an over-estimate
- < LOR Less than limit of reporting. ND Not detected. NA Not applicable. NR Not required.
- Testing completed in a NATA accredited laboratory.
- 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.
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- This report was issued on 10/10/2023.

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