



BIOSCIENCE PTY LTD ABN: 26 547 517 746  
488 NICHOLSON ROAD, FORRESTDALE WA 6112  
PO BOX 5466 CANNING VALE SOUTH WA 6155  
PHONE (08) 9397 2446, FAX (08) 9397 2447  
EMAIL bioscience@biosciencewa.com  
WEB www.biosciencewa.com

## ANALYSIS REPORT

CLIENT:	Eclipse	REPORT NO:	2024_1566
TEST REQUEST:	AS 4454-2012 Test Methods B-G, I-J <sup>(1)</sup>	LAB SAMPLE ID:	2024_1566
ADDRESS:	40 Subiaco Square Rd, Subiaco WA	DATE RECEIVED:	17/12/2024
CLIENT SAMPLE ID:	Soil Conditioner ES772	DATE TESTED:	17/12/24-13/01/25
SAMPLING LOCATION:	Abercrombie	DATE REPORTED:	13/01/2025

## TEST RESULTS

Analyte	Result	Unit	AS4454 Compliance Requirement	
			Composted product	Mature compost
Electrical Conductivity	1.54	mS/cm	≤10	≤10
pH <sub>(H<sub>2</sub>O)</sub>	7.35		> 5	>5
pH <sub>(CaCl<sub>2</sub>)</sub>	7.13			
Ammonium-N (in extract)	0.37	mg/L	<200	<100
Ammonium-N (dry weight)	1.94	mg/kg		
Nitrate-N (in extract)	0.130	mg/L		
Nitrate-N (dry weight)	0.683	mg/kg	≥10 <sup>(2)</sup>	≥10 <sup>(2)</sup>
Total N (dry weight)	0.301	%	≥ 0.8 <sup>(2)</sup>	≥ 0.8 <sup>(2)</sup>
Phosphate-P (in extract)	0.492	mg/L	≤ 5 <sup>(3)</sup> , <1 <sup>(4)</sup>	≤ 5 <sup>(3)</sup> , <1 <sup>(4)</sup>
Phosphate-P (dry weight)	2.59	mg/kg		
Total P (dry weight)	0.043	%	≤ 0.1 <sup>(3)</sup>	≤ 0.1 <sup>(3)</sup>
Carbon (dry weight)	17.0	%	≥ 20	≥ 20
C:N Ratio	56.5			
Organic Matter (dry weight)	28.9	%		
Calcium (dry weight)	60,000	mg/kg		
Magnesium (dry weight)	2,600	mg/kg		
Sodium (dry weight)	780	mg/kg	< 10 000	< 10 000
Potassium (dry weight)	830	mg/kg		
<b>Chemical Contaminants<sup>(5)</sup></b>				
Arsenic	<2	mg/kg	≤ 20	≤ 20
Cadmium	<0.1	mg/kg	≤ 1	≤ 1
Chromium	15	mg/kg	≤ 100	≤ 100
Copper	16	mg/kg	≤ 150 <sup>(6)</sup>	≤ 150 <sup>(6)</sup>
Lead	6.4	mg/kg	≤ 150	≤ 150
Nickel	9.6	mg/kg	≤ 60	≤ 60
Zinc	48	mg/kg	≤ 300 <sup>(6)</sup>	≤ 300 <sup>(6)</sup>

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## TEST RESULTS

Analyte	Result	Unit	AS4454 Compliance Requirement	
			Composted product	Mature compost
Apparent Density	0.67	kg/L		
Dry Bulk Density	0.52	kg/L		
Moisture content (as received)	25.6	%	25-38.9 <sup>(7)</sup>	25-38.9 <sup>(7)</sup>
<b>Particle Size Grading</b>				
• > 16mm	0	%		
• > 5mm to < 16mm	9.1	%		
• < 5mm	90.9	%		
<b>Physical Contaminants</b>				
• glass, metal and hard plastic > 2mm	0	%	≤ 0.5	≤ 0.5
• light plastic, plastic film > 5mm	0	%	≤ 0.05	≤ 0.05
• stones and clods of clay >5mm	1.69	%	≤ 5	≤ 5
<b>Maturity Indicators</b>				
Nitrogen Drawdown Index*	0.595		>0.2	>0.5
Ammonium-N (in extract)	0.370	mg/L	<200	<100
Ammonium-N (dry weight)	1.94	mg/kg		
Plant growth test (Bioassay)	137	% Growth Index	>80% <sup>(8)</sup>	>80% <sup>(8)</sup>
Ammonium : Nitrate Ratio**	2.8		<3.0	<0.5

1) Appendix D includes the following parameters not tested by Bioscience Pty. Ltd.: boron, selenium, molybdenum, organohalides, chlorinated organic pesticides (OCPs), polychlorinated biphenyls (PCBs), and pathogens (Salmonella, Escherichia coli, thermotolerant coliforms).

(2) If a contribution to plant nutrition is claimed.

(3) For products that claim to be for P-sensitive plants.

(4) If applied to sandy soils.

(5) Where there are no currently applicable federal and state or territory provisions for composts, soil conditioners and mulches, products shall comply with the list of chemical contaminant upper limit values and labelling provisions as listed here. Note: non-conformance with this Standard does not indicate that the product may not otherwise be suitable for a range of specified applications that comply with other state or territory government regulations, guidelines or specified end user requirements. (From AS 4454-2012 Clause 2.1).

(6) A product that contains levels of total copper between 100-150 mg/kg and/or total zinc between 200-300 mg/kg (dry weight) whilst not exceeding the limit values, shall provide a warning label in accordance with the labelling requirements of Clause 5.3 of AS 4454-2012.

(7) Maximum = % OM + 6, when OM > 40%; maximum = % OM + 10 when OM < 40%.

Analysis: Sample was processed and sampled in accordance with AS 4454-2012 Standards. Electrical conductivity, pH, Ammonium-N, Nitrate-N and Phosphate-P AS 4454-2012 Appendix B. Total N, Carbon, C:N Ratio calculation, Organic Matter calculation AS 4454-2012 Appendix C. Total P, calcium, magnesium, sodium, potassium, arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc AS 4454-2012 Appendix D. Phytotoxicity/Bioassay alternate method AS 4454-2012 Appendix F as per Zucconi et al. 1981. Wettability AS 4454-2012 Appendix E. Apparent density and dry bulk density calculation AS 4454-2012 Appendix J. Moisture content AS 4454-2012 Appendix I. Particle size grading AS 4454-2012 Appendix G. Contamination AS 4454-2012 Appendix I.

These results reflect our findings for the received sample only.

Tested by: SM HF GN TW Date: 13/01/2025

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