

ANALYTICAL REPORT

CLIENT:	Eclipse	REPORT NO:	2024_0172_1
TEST REQUEST:	AS 4419-2018 Landscaping Soil	LAB SAMPLE ID:	2024_0172_1
ADDRESS:	Level 2, Subiaco Square Rd, Subiaco WA	DATE RECEIVED:	23/02/2024
CLIENT SAMPLE ID:	Roof Top Garden Soil ES697	DATE TESTED:	23/02/24-20/03/24
SAMPLING LOCATION:	Abercrombie	DATE REPORTED:	20/03/2024

TEST RESULTS

Analyte	Result	Unit	AS4419 Compliance Requirements (Landscaping Soils – on grade)
Electrical Conductivity	1.05	mS/cm	< 0.75 Low organic low phosphorus < 1.2 Low organic high phosphorus <1.75 Medium organic <2.5 High organic
pH(CaCl2)	7.53		4.5-6.0 Acid soils 6.1-7.5 Neutral soils 7.6-9.0 Alkaline soils
Bulk Density	0.855	kg/L	--
Saturated Bulk Density	1.14	kg/L	--
Soil Texture	Loamy Sand		--
Available P (dry weight)	32	mg/kg	< 30 Low organic low phosphorus 30-200 Low organic high phosphorus < 30 Medium organic low phosphorus 30-200 Medium organic high phosphorus
Total Carbon (dry weight)	14.7	%	--
Organic Matter (dry weight after correction for CaCO ₃)	25.0	%	3-5.9% Low organic ⁽³⁾ 6-14.9% Medium organic 15-25% High organic
Ammonium-N (dry weight)	19.3	mg/kg	--
Nitrate-N (dry weight)	7.6	mg/kg	--
Total available N (NO ₃ + NH ₄)	26.9	mg/kg	>20 Low organic > 30 Medium organic low phosphorus >50 Medium organic high phosphorus >50 High organic
Large Particles > 20 mm	5.5	%	<2
Bioassay	163	% Growth Index	>80 ⁽⁴⁾
Water repellence	<5s (water)		≤60s (water) or rating of ≤5 (ethanol)

Analysis: Sample was processed and sampled in accordance with AS 4419 Standards. Electrical conductivity and pH AS 4419-2018 Appendix D. Bulk density AS 4419-2018 Appendix B. Soil Texture AS 4419-2018 Appendix K. Sodium, potassium, calcium and magnesium Rayment & Lyons (2011) as per AS 4419-2018 5.4.2. Available P AS 4419-2018 Appendix F or G. Carbon and Organic Matter (Leco furnace) Calculation AS 4419-2018 5.6. Total available nitrogen (ammonium and nitrate) AS 4419-2018 Appendix E. Particle Size dry sieving as per AS 4419-2018 Table 1. Bioassay/Toxicity Modified method AS 4419-2018 Appendix I as per Zucconi et al. 1981. Water repellence AS 4419-2018 Appendix C(Paragraph C4.2). Saturated bulk density AS 3743-2003
 (1) AS4419-2018 Clause 5.6 states that 'all soils shall contain no less than 3% by mass of organic matter (except top dressing).'

These results reflect our findings for the received sample only.

Tested by: SM HF TW GN

Date: 20/03/2024

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