

## ANALYTICAL REPORT

|                    |  |                |                  |
|--------------------|--|----------------|------------------|
| CLIENT:            | Eclipse                                | REPORT NO:     | 2024_1510        |
| TEST REQUEST:      | AS 4419-2018 Structural Soil           | LAB SAMPLE ID: | 2024_1510        |
| ADDRESS:           | Level 2, Subiaco Square Rd, Subiaco WA | DATE RECEIVED: | 9/12/2024        |
| CLIENT SAMPLE ID:  | Structural Soil AS 4419 ES 774         | DATE TESTED:   | 9/12/24-20/12/24 |
| SAMPLING LOCATION: | Abercrombie                            | DATE REPORTED: | 20/12/2024       |

### TEST RESULTS

#### Structural Soil Support Lattice >4.75mm

| Particle Size Distribution      | % Passing | AS4419 Compliance Requirements |
|---------------------------------|-----------|--------------------------------|
| Structural Soil Support Lattice |           |                                |
| 63.0 mm                         | 100       | 100                            |
| 53.0 mm                         | 100       | 85 – 100                       |
| 37.5 mm                         | 100       | 20 – 65                        |
| 26.5 mm                         | 85        | 0 – 20                         |
| 19.0 mm                         | 38        | 0 – 5                          |
| 13.2 mm                         | 14        | 0 – 2                          |
| 4.75 mm                         | 1         | 0 – 1                          |

#### Filler Soil <4.75mm

| Analyte   | Result     | Unit    | AS4419 Compliance Requirements  |
|---|------------|---------|---|
| Structural Filler Soil  |            |         |   |
| Electrical Conductivity   | 0.922      | mS/cm   | <0.5  |
| pH (CaCl <sub>2</sub> )   | 7.23       |         | 4.5-6.0 Acid soils<br>6.1-7.5 Neutral soils<br>7.6-9.0 Alkaline soils |
| Phosphorus (dry weight)   | 21         | mg/kg   | 30-100  |
| Total Carbon (dry weight)   | 3.40       | %       | -   |
| Organic Matter (dry weight after correction for CaCO <sub>3</sub> ) | 5.78       | %       | 3-8   |
| Available N (as nitrate) (dry weight)                               | 171        | mg/kg   | >20   |
| Water repellence  | <1s        | seconds | ≤60s (water) or rating of ≤5 (ethanol)                                |
| Soil Structure  | Sandy Loam | -       | Loam to Clay  |

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. ECEC, sodium, potassium, calcium, magnesium, aluminium Rayment & Lyons (2011) as per AS 4419-2018 5.4.2. Phosphorus AS 4419-2018 Appendix F. Carbon and Organic Matter (Leco furnace) Calculation AS 4419-2018 5.6. Available nitrogen (nitrate) AS 4419-2018 Appendix E. Water repellence AS 4419-2018 Appendix C. Permeability McIntyre & Jakobsen (1998) method as per AS 4419-2018 Table 4. Particle Size Distribution as per AS 1141.11.1

These results reflect our findings for the received sample only.

Tested by: SM HF GN TW

Date: 20/12/2024

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