Multiple Analysis Profile

Sample Drop Off: 16 Chilvers Road
Thornleigh NSW 2120

Tel: 1300 30 40 80
Em: info@sesl.com.au
Web: www.sesl.com.au

Batch N°: 72957 **Sample N°: 4** **Date Report Generated: 31/07/2026** **Report Status: Final**

Client Name: **Centenary Landscaping Supplies**
Client Contact: **James McCullough**
Client Order N°:
Address: **26 Summers Rd**
Darra QLD 4076

Project Name: **Regular Compliance Testing**
SESL Quote N°: **2348**
Sample Name: **20260708-01PGSAT**
Description: **Soil**
Test Type: **Texture_4419, BD_4419, TOC_AS, HC1_16, Wett_4419, Disp_4419, LP_SLD, ECEC_M3, PO4_Colwell, NO3_Sol, NH4_Sol, NDI_3743, S_M3, Cl_Sol, Fe_M3, Mn_M3, Zn_M3, Cu_M3, B_M3, Tox_4419, VC_SLD, EG020T (As, Cd, Cr, Cu, Ni,**

Analysis	Unit	Target range	Result
Physical Properties			
Texture	-	Sandy loam to clay loam	Loamy Sand
Dry Bulk Density	kg/L	0.8 - 1.3	1.0
Organic matter	% dwb	4 - 10	8.7
Air Filled Porosity (AFP)	%	≥ 10	No Test
Water-holding capacity	%	≥ 40 (pref ≥ 45)	No Test
Permeability (@16 drops)	mm/hr	≥ 50	700
Wettability (AS4419)	mm/min	> 5	130
Dispersibility	category	1 or 2	4
Large Particles 2 - 20 mm	% w/w	< 25	21
Large particles > 20 mm	% w/w	< 5	<0.5
Reaction & Salinity			
pH (1:5 water)	pH units	5.5 - 7.5	7.21
Electrical Conductivity (1:5)	dS/m	< 0.9	0.83
ECEC	cmol(+)/kg	≥ 10 (≥ 8 accept.)	21.2
Cation balance			
Exchangeable Ca	% ECEC	60 – 80	55
Exchangeable Mg	% ECEC	15 – 25	21.5
Exchangeable K	% ECEC	5 – 10	14.3
Exchangeable Na	% ECEC	< 6	9.2
Ca : Mg ratio	ratio	3 – 9	2.6
Available nutrients			
Phosphorus (Colwell)	mg/kg	-	372
Total available N (NO_3 + NH_4)	mg/kg	≥ 50	<5.0
Ammonium-N (NH_4)	mg/kg	-	0.7
Nitrogen Draw-Down Index	-	≥ 0.7	0.01
Available sulfur (S)	mg/kg	≥ 10	165
Chloride (Cl)	mg/kg	≤ 200	707
Iron (Fe)	mg/kg	100 – 400	345
Manganese (Mn)	mg/kg	25 – 100	150
Zinc (Zn)	mg/kg	5 – 30	16.7
Copper (Cu)	mg/kg	1 – 15	1.61
Boron (B)	mg/kg	0.5 – 5	2.8

Consultant: Kate Tamlyn — 31/07/2026

Authorised Signatory: Owen Guy — 31/07/2026

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Analysis	Unit	Target range	Result
Performance			
Bioassay	mm	> 70	80
Compost Maturity (NDI)	-	≥ 0.7	0.01
Visible Physical Contaminants			
Glass/ plastic/ metal >2mm	% w/w	< 0.5	<0.05
Heavy Metals		**Upper Limits**	
Arsenic	mg/kg	20	2.8
Cadmium	mg/kg	1	<0.1
Zinc	mg/kg	300	41.3
Chromium	mg/kg	100	7.5
Copper	mg/kg	150	17.3
Lead	mg/kg	150	3.5
Mercury	mg/kg	1	<0.1
Nickel	mg/kg	60	4.3

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31/07/2026

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		SESL Quote N°:	**2348**
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This soil sample was submitted to SESL to determine potential compliance with the clients UltraGrow Premium On-Grade Soil specification.

This soil is generally compliant with the specification with the exception of dispersibility,Calcium, Potassium, Ca:Mg ratio, sodium, chloride, nitrogen, NDI, compost maturity, manganese.

- Irrigate heavily to leach salts down the profile.
- Apply Gypsum at 300 g/m^2 (or 3.0 kg/m^3 if stockpiled) and incorporate into the top 100 mm of soil to improve dispersion and ECEC.
- This soil is not suitable for phosphorus sensitive species
- Apply Urea at 0.1 kg/m^3 to improve nitrogen levels.
- Further composting of organic components is recommended of inputs to improve NDI and maturity.

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