REGEN SOILS						
KEGEN SOILS						
Duiza aira a sa ila la sala ta lifa						
Bringing soils back to life ———						
AS3743:2003 POTTING MIXES REPORT						
ASS745:2005 POT TING MIXES	REPORT					
Sample 1 of 2 samples supplied by ReGen Soils	on the 14 August 2023. Lab Job No. P410	<u> </u> 1.				
Analysis requested by Declan McDonald. Your	Job: LPPM Green Roof.					
PO Box 58 ASCOT VALE VIC 3032						
	Product Nove	Sample 2	Guideline			
	Product Name: Product Type:	Green Roof Soil	Guideline			
	Manufacturing Site:	Ecodynamics	AS3743:2003			
	Manufactured Date: Test Code:	 CA-PACK-006	Other Mixes			
	Standard Applicable:	AS3743:2003				
Parameter	Method Reference	P4101/2	Regular	Interpretation		
Wet Bulk Density (kg/L)	AS4454:2012 Appendix J	0.90		This green roof mix was assessed against AS3743 for potting mixes.		
Dry Bulk Density (kg/L)	AS4454:2012 Appendix J	0.65	0.3-0.6	Bulk density is acceptable and saturated bulk density is low indicating lightweight condition suitable for roof gardens. Air-filled porosity and water holding capacity are acceptable. pH is slightly alkaline but is acceptable for all but acid-loving plants. EC is acceptable. Organic matter is acceptable for roof garden media. AS3743 organic carbon		
Saturated Bulk Density (kg/L)	Calculation	1.25				
Moisture Content (%)		28	> 40			
Air-filled Porosity (%)	AS3743:2003 Appendix B	12	≥ 13			
Total Water Holding Capacity (%)		48	≥ 40			
Wettability (min)	AS3743:2003 Appendix C	0m 03s	≤ 5	requirement is based on organic growing media. High organics in a roof top		
pH	AS3743:2003 Appendix D	7.22	5.3-6.5	media are pre-disposed to slumping and volume loss over time. Nitrogen status is high. All other macro and micro elements are acceptable apart from phosphorus which is low. This level of phosphorus is ideal for P-sensitive plants but for most other plants, some P supplementation will be required.		
Electrical Conductivity (dS/m)		2.37	≤ 2.2			
Chloride (mg/L)	AS3743:2003 Appendix D	199	≤ 200			
Total Organic Carbon (%)	AS4454:2012 Appendix C	4.50	≥ 20			
Ammonium Nitrogen (mg/L N)	AS3743:2003 Appendix D	33.2	≤ 100			
Ammonium/Nitrate Ratio	Calculation - Ammonium/Nitrate	0.3				
Nitrogen Drawdown Index (NDI ₇₅)	AS3743:2003 Appendix E	0.63	≥ 0.2			
Plant Growth Test - Root Elongation (mm)	AS3743:2003 Appendix F	81	≥ 70			
Calcium (mg/L)		221	≥ 50			
Magnesium (mg/L)		77.2	≥ 15			
Potassium (mg/L)	AS3743:2003 Appendix G see note 6	279				
Sodium (mg/L)		187	≤ 130			
Sulphur (mg/L)		194				
Calcium/Magnesium Ratio	Calculation - Calcium/Magnesium	2.87	1.5-10			
Potassium/Magnesium Ratio	Calculation - Potassium/Magnesium	3.62				
Phosphorus (mg/L)	AS3743:2003 Appendix G see note 6	4.97				
Zinc (mg/L)		5.38	0.3-10			
Manganese (mg/L) see note 5		9.16	1-15 see note 5			
Iron (mg/L)	AS3743:2003 Appendix G see note 6	55.1	≥ 25			
Copper (mg/L)		0.28	0.4-15			
Boron (mg/L)		0.36	0.02-0.65			
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