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MRTS16 FORM C - TOPSOIL TESTING (2017)

(Number of samples) sample supplied by (Company name) on the (Date submitted), 20xx - Lab Job No. xx.

Analysis requested by (Name of Client).

(Client Address)

		Sample 1	*Guideline*
	Product Name:		
	Product Type:		
	Manufacturing Site:		
	Manufactured Date:		*MRTS16:2017 FORM C*
	Test Code:	SS-PACK-090	
	Standard Applicable:	MRTS16 - FORM C	
Parameter	**Method Reference**	**X/1**	
Bulk Density (t/m^3)	Note 2 - Clause 5.2		*> 0.7*
Organic Matter (%)	Calculation - Total Organic Carbon x 1.7		*3-10*
Wettability (mm)	Note 2 - Clause 5.4		*>5 - <150*
pH	Note 2 - Clause 5.5		*5.5-7.5*
Electrical Conductivity (dS/m)	Note 2 - Clause 5.6		*<1.2*
Phosphate Phosphorus (mg/kg P)	Note 2 - Clause 5.8		*see note 8*
Permeability (cm/hr)	Note 2 - Clause 5.12		*2-35*
Texture (Texture Classification)	Note 2 - Clause 5.13		
Large Particle - > 40mm Sieve (%) **Large Particle - > 20mm Sieve (%)**	Note 2 - Clause 5.14		*Nil*
Water Repellence (Hydrophobicity) (Class No.)	Note 5 - Table 1		*Class 0 or 1*
Water Drop Penetration Time (Sec)	Note 5 - Table 1		
Total Organic Carbon (%)	Note 2 - Clause 5.3		*≥0.5*
Exchangeable Calcium (meq/100g)	Note 4		*>5*
Exchangeable Magnesium (meq/100g)			*>1*
Exchangeable Sodium (meq/100g)			..
Exchangeable Potassium (meq/100g)			*>0.4*
Exchangeable Aluminium (meq/100g)			..
Effective Cation Exchange Capacity (meq/100g)	Note 4 - Method 15J1		*>10*
Exchangeable Sodium Percentage (%)	% Calculation		*<6*
Exchangeable Aluminium (%)	% Calculation		*<40*
Calcium/Magnesium Ratio	Calculation - Calcium/Magnesium		*2-10*
Chloride (mg/kg)	Note 4 - Method 5A		*<900*
Extractable Sulfur (mg/kg)	Note 4 - Method 10B		*<100*

Notes:

1. All analysis is tested according to Technical Specification Appendix, MRTS16 Landscape and Revegetation Works 2017.
2. Indicative guidelines are based on those in AS4419:2003 for low density soils, organic soils, natural soils.
3. Methods from Rayment and Lyons, 2011. *Soil Chemical Methods - Australasia.* CSIRO Publishing: Collingwood.
4. Refers to Soil Chemical Methods : Australasia - Rayment & Lyons, CSIRO 2011. When pH < 7.3 Method 15B3 When pH > 7.3 Method 15C1.
5. Refers to MRTS16 Appendix - Test Method Q160 Determination of Water Repellency of a Soil.
6. Refers to MRTS16 Appendix - Test Method Q161 Field Dispersion Indicator Test of Soil - Slaking.
7. Refers to MRTS16 Appendix - Test Method Q162 Field Dispersion Indicator Test of Soil - Clouding.
8. Refers to AS1289.3.8.1 - Method of testing soils for engineering purposes.
9. Less than 5 mg/kg for very sensitive plants and <20 mg/kg for moderately sensitive plants and <100 mg/kg for non-sensitive plants.
10. All soils should be free from any living parts (seeds, bulbs, corms, vegetative propagules and the like).
11. Analysis conducted between sample arrival date and reporting date.
12. This report is not to be reproduced except in full.
13. All testing parameters have been facilitated by a NATA accredited laboratory.

Quality Checked: Brian Smith
Compost & Landscape Soils Co-ordinator