



## Soil Methods of Analysis

Performed on soils air dried at 45°C and ground <2mm

Analysis	Rayment & Lyons	
Aluminium	15G1	
M3 Extraction	18F	P, Ca, Mg,Na,K, Fe, Cu, Mn, Zn, B, S, Al
pH (Water)	4A1	
pH (CaCl <sub>2</sub> )	4B2	
Buffer pH & Lime requirement	16C1	
Electrical Conductivity	3A1	
Boron - CaCl <sub>2</sub>	12C2	Calcium Chloride extractable B
Micronutrients - DPTA	12A1	Assessment of Cu, Zn, Mn, and Fe
Macro Nutrients	15A1	Assessment of K, Na, Ca, and Mg
effective CEC	15J1	
Soluble Chloride	5A2b	
Sulphur -MCP	10B3	
Sulphur - KCl 40	10D1	
Carbon - Organic - (Walkley & Black)	6A1	
Carbon - Total	6B3	
Carbon - Labile	6E1	
Organic Matter	Calculation	
Nitrogen - Total	7A5	
Nitrogen - NO <sub>x</sub>	7B1	
Nitrogen - Ammonia		
Moisture Content	2A1	
Carbon/Nitrogen ratio	8B1	
Exchangeable Acidity /Lime requirement	16C1	
Phosphorous - Colwell	9B2	
Phosphorous - Olsen	9C2a	
Phosphorous - BSES	9G1	
Phosphorous - Buffer Index (unadjusted)	9I4c	
Phosphorous - Saturation Ratio	PRS	
Potassium - Colwell	18A1	
Phosphorous -Mehlich 3	18F	
% Water Stable Aggregates		

### References

Soil Chemical Methods - Australasia, 2011, George E. Rayment and David J. Lyons  
 Standard Methods for the Examination of Water and Wastewater 19th Edition. 1995, American Public Health Association

## Water Methods of Analysis

All water sample analysed as received

Analysis	Method Code (APHA)	
Alkalinity (HCO <sub>3</sub> ,CO <sub>3</sub> )	2320	
Acidity	2310	
Elemental Analysis	3120	P, Ca, Mg,Na,K, Fe, Cu, Mn, Zn, B, S, Al, Si, Mo
Hardness	2340	
pH	4500-H <sup>+</sup>	
EC	2510	
Cl	4500-Cl <sup>-</sup> - E	
NO <sub>x</sub>	4500-NO <sub>3</sub> - F	
NH <sub>4</sub>		
BOD	Subcontracted to Tasmanian Laboratory Services	
TDS	By calculation	
TDI	By calculation	

## NU-test Methods of Analysis

Analysis performed on plant sample sap extracted under hydraulic pressure

Analysis	Method Code (APHA)	
Acidity	2310	
Elemental Analysis	3120	P, Ca, Mg,Na,K, Fe, Cu, Mn, Zn, B, S, Al, Si, Mo
pH	4500-H <sup>+</sup>	
EC	2510	
Cl	4500-Cl <sup>-</sup> - E	
NO <sub>x</sub>	4500-NO <sub>3</sub> - F	
NH <sub>4</sub>		
Brix	Refractometer	