

**Project Name:** BAGO-MARAGLE ESM  
**Project Code:** BGM\_ESM      **Site ID:** 1006      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	P. Ryan	<b>Locality:</b>	
<b>Date Desc.:</b>	14/12/94	<b>Elevation:</b>	1104 metres
<b>Map Ref.:</b>	Sheet No. : 8526 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6058559 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	607582 Datum: AGD66	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	SGGH	<b>Substrate Material:</b>	Granodiorite

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	8 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):** Firm

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Acidic Mesotrophic Red Kandosol Thin Slightly gravelly Clay-loamy Clayey Very deep	<b>Principal Profile Form:</b>	Uf6.21
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	No suitable group
All necessary analytical data are available.		

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

O1	0 - 0.01 m	Organic Layer; ;
A1	0.01 - 0.08 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 2-10% , Faint; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; >500 mm, Platy; Rough-ped fabric; Dry; Weak consistence; Slightly plastic; Non-sticky; 2-10%, medium gravelly, 6-20mm, angular tabular, dispersed, Coal, coarse fragments; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Abrupt, Wavy change to -
A3	0.08 - 0.2 m	Dark reddish brown (5YR3/3-Moist); Biological mixing, 2-10% , Faint; Light clay; Strong grade of structure, 5-10 mm, Polyhedral; 100-200 mm, Lenticular; Rough-ped fabric; Moderately moist; Weak consistence; Moderately plastic; Moderately sticky; 0-2%, fine gravelly, 2-6mm, angular tabular, dispersed, Coal, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
B1	0.2 - 0.32 m	Dark red (2.5YR3/6-Moist); Biological mixing, 0-2% , Faint; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 100-200 mm, Lenticular; Smooth-ped fabric; Moderately moist; Weak consistence; Moderately plastic; Moderately sticky; 0-2%, fine gravelly, 2-6mm, angular tabular, dispersed, Coal, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.32 - 0.61 m	Red (2.5YR4/6-Moist); Biological mixing, 0-2% , Faint; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Moderately plastic; Moderately sticky; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -
B22	0.61 - 1.81 m	Red (2.5YR4/6-Moist); ; Clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots;
B23	1.81 - 2.01 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Moderately plastic; Moderately sticky; Field pH 5 (pH meter);

**Morphological Notes**

B23 Hit rock with auger at 2m. No substrate encountered.

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Western midslope edge of trial.

**Site Notes**

VI/1.18, ALPINE ASH OFF-SITE SPACING

**Observation Notes**

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_H	Exchangeable H - by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
2A1	Air-dry moisture content
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm <sup>3</sup>