

Project Name: BAGO-MARAGLE ESM
Project Code: BGM_ESM **Site ID:** 1001 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	12/12/94	Elevation:	1109 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6057245 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	603472 Datum: AGD66	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	13 %	Aspect:	135 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Dystrophic Red Kandosol Medium Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	Gn2.21
ASC Confidence:	Great Soil Group:	Red earth
All necessary analytical data are available.		

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

O1	0 - 0.01 m	Organic Layer; ;
A1	0.01 - 0.19 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (pH meter); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -
B1	0.19 - 0.43 m	Yellowish red (5YR4/6-Moist); Biological mixing, 2-10% , Distinct; Clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (pH meter); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Smooth change to -
B21	0.43 - 0.87 m	Yellowish red (5YR4/6-Moist); Biological mixing, 0-2% , Faint; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Granodiorite, coarse fragments; Field pH 4.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -
B22	0.87 - 1.11 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Granodiorite, coarse fragments; Field pH 4.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots;
B3	1.11 - 1.46 m	Dark yellowish brown (10YR4/4-Moist); Substrate influence, 10-20% , Faint; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Granodiorite, coarse fragments; Field pH 4.5 (pH meter);
C	1.46 - 2.01 m	Light brownish grey (2.5Y6/2-Moist); Substrate influence, 2-10% , Faint; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Field pH 6 (pH meter);

Morphological Notes

C Granodiorite saprolite with rock at 2 m.

Observation Notes

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Site Notes

VI/1.15, ALPINE ASH CROWTH PLOT 2

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[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 (Ca2+,Mg2+,Na+,K+) 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/cm3