

Project Name: BAGO-MARAGLE ESM
Project Code: BGM_ESM **Site ID:** 1005 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	14/12/94	Elevation:	1031 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6058586 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	607032 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:	16 %	Aspect:	315 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Mesotrophic Red Kandosol Medium Slightly gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	Gn2.24
ASC Confidence:	Great Soil Group:	Red podzolic soil
All necessary analytical data are available.		

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.12 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 2-10% , Faint; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 100-200 mm, Lenticular; Rough-ped fabric; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Coal, coarse fragments; Field pH 6 (pH meter); Abundant, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -
A2	0.12 - 0.24 m	Dark reddish brown (5YR3/3-Moist); Brown (7.5YR4/4-Dry); Biological mixing, 2-10% , Faint; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, 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; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
B21	0.24 - 0.42 m	Dark red (2.5YR3/6-Moist); Biological mixing, 2-10% , Faint; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; 50-100 mm, Columnar; Smooth-ped fabric; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Granodiorite, coarse fragments; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 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; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Gradual, Smooth change to -
B22	0.42 - 0.92 m	Red (2.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Granodiorite, coarse fragments; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -
B23	0.92 - 1.32 m	Yellowish red (5YR5/8-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Field pH 5 (pH meter);
B3	1.32 - 1.82 m	Strong brown (7.5YR5/6-Moist); Substrate influence, 2-10% , Faint; Coarse sandy clay; Field pH 5 (pH meter);
C	1.82 - 2.82 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sandy clay loam; Field pH 5 (pH meter);

Morphological Notes

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B23 Muscovite mica common in sand fraction.
B3 Muscovite mica common in sand fraction.

Observation Notes

Western downslope edge of trial. Good quality peppermint site. Downslope of windrow. Layer 7 is C horizon from 1.8 to 2.8 m.

Site Notes

VI/1.81 CSIRO PROGENY TRIAL

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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