

Project Name: BAGO-MARAGLE ESM
Project Code: BGM_ESM **Site ID:** 1018 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	03/04/95	Elevation:	1223 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6050915 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	604373 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:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	4 %	Aspect:	0 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 Clay-loamy Very deep	Principal Profile Form:	Um7.11
ASC Confidence:	Great Soil Group:	Red earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.19 m	Dark brown (7.5YR3/2-Moist); Biological mixing, 2-10% , Faint; Medium sandy clay loam; Strong grade of structure, 2-5 mm, Polyhedral; 50-100 mm, Prismatic; Rough-ped fabric; Dry; Firm consistence; Field pH 5 (pH meter); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to -
B1	0.19 - 0.31 m	Dark reddish brown (5YR3/3-Moist); Biological mixing, 2-10% , Faint; Medium sandy clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; 50-100 mm, Columnar; Rough-ped fabric; Dry; Firm consistence; Field pH 5 (pH meter); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
B21	0.31 - 0.57 m	Dark reddish brown (5YR3/4-Moist); Biological mixing, 2-10% , Distinct; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Weak consistence; 0-2%, coarse gravelly, 20-60mm, subangular tabular, dispersed, Granodiorite, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.57 - 0.77 m	Yellowish red (5YR4/6-Moist); Biological mixing, 2-10% , Distinct; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, subangular tabular, dispersed, Granodiorite, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subangular tabular, dispersed, Quartz, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B23	0.77 - 1.32 m	Yellowish red (5YR4/6-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, subangular tabular, dispersed, Granodiorite, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subangular tabular, dispersed, Quartz, coarse fragments; Field pH 4.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
C	1.32 - 2.67 m	Brown (10YR5/3-Moist); ; Loamy coarse sand; Sandy (grains prominent) fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, subangular tabular, dispersed, Quartz, coarse fragments; Field pH 5.5 (pH meter);

Morphological Notes

B22 Quartz gravel appears in lower part of layer. Quartz probably derived from veins.
C Quartz gravel increase at 2.65 m.

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PGP centre post 8m west of pit. Site has recently been logged.

Site Notes

PGP 10, BAGO S.F., COMPT 47

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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