Project Name:	BAGO-MARAGLE ESM					
Project Code:	BGM_ESM	Site ID:	1026			
Agency Name:	CSIRO Division	of Soils (A	CT)			

Site Information

Desc Date Map Nort	Information . By: Desc.: Ref.: hing/Long.: ing/Lat.:	P. Ryan 06/04/95 Sheet No. : 8526 DGPS	Locality: Elevation: Rainfall: Runoff: Drainage:	1240 metres No Data Slow Well drained		
Expo	logy osureType: I. Ref.:	Soil pit SGGH	Conf. Sub. is Pare Substrate Materia		able odiorite	
Rel/S Morp	d Form Slope Class: bh. Type: h. Type: e:	No Data Upper-slope Hillslope 13 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data 45 degrees		
-	iace Soil Co sion:	ondition (dry): Firm				
	<u>Classificat</u>	ion				
Acidi		lassification: .ed Kandosol Medium Slightly grav v deep	••	ing Unit: pal Profile Form	N/A : Gn.	
ASC All n	Confidence	lytical data are available.		Soil Group:	N/A	
Veg	etation:	 E: No effective disturbance. Nature Fragments: 0-2%, , angular tal 				
Prof 01	ile Morpho 0 - 0.02 r					
A1	0.02 - 0.1	15 m Dark brown (7.5YR3/3-Moi of structure, 2-5 mm, Gran 100mm2) Very fine (0.075- macropores, Common (1-5 consistence; 2-10%, fine g	ular; 100-200 mm, Pr -1mm) macropores, C 5 per 100mm2) Mediu ravelly, 2-6mm, angu nmon, very fine (0-1n	ismatic; Rough-p common (1-5 per im (2-5mm) macr lar tabular, disper nm) roots; Comm	ine sandy clay; Moderate grade ed fabric; Common (1-5 per 100mm2) Fine (1-2mm) opores, Moderately moist; Weak sed, Coal, coarse fragments; on, fine (1-2mm) roots; Common	٢
B1	0.15 - 0.2	structure, 5-10 mm, Polyhe macropores, Few (<1 per 5mm) macropores, Modera tabular, dispersed, Coal, co	edral; Rough-ped fabr 100mm2) Fine (1-2mr ately moist; Weak cor oarse fragments; Fiel nm) roots; Common, r	ic; Few (<1 per 1 n) macropores, F nsistence; 2-10%, d pH 5.5 (pH met	aint; Light clay; Weak grade of 00mm2) Very fine (0.075-1mm) ew (<1 per 100mm2) Medium (2 fine gravelly, 2-6mm, angular er); Many, very fine (0-1mm) roots; Few, coarse (>5mm)	
B21	0.26 - 0.5	grade of structure, 10-20 n Few (<1 per 100mm2) Ver macropores, Common (1-5 100mm2) Coarse (>5mm) gravelly, 6-20mm, angular	nm, Subangular block y fine (0.075-1mm) m 5 per 100mm2) Mediu macropores, Modera tabular, dispersed, C nt; Field pH 5 (pH met	y; 100-200 mm, I acropores, Few (im (2-5mm) macr tely moist; Weak oal, coarse fragm	Faint; Light clay; Moderate Lenticular; Smooth-ped fabric; <1 per 100mm2) Fine (1-2mm) opores, Common (1-5 per consistence; 2-10%, medium ents; Few cutans, <10% of ped ry fine (0-1mm) roots; Few, fine	
Doc						

Observation ID: 1

Red (2.5YR4/6-Moist); Biological mixing, 0-2% , Faint; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Medium (2-5mm) macropores, Common (1-5 per 100mm2) Coarse (>5mm) macropores, Dry; Firm B22 0.52 - 1.52 m consistence; 0-2%, fine gravelly, 2-6mm, angular tabular, dispersed, Coal, coarse fragments; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Granodiorite, coarse fragments; Field pH 4.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse change to -

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B3 1.52 - 1.92 r	 Yellowish red (5YR4/6-Moist); ; Medium sandy clay loam; Sandy (grains prominent) fabric; Moderately moist; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Granodiorite, coarse fragments; Field pH 4.5 (pH meter); Clear change to -
C1 1.92 - 2.37 r	 Dark yellowish brown (10YR3/5-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Granodiorite, coarse fragments; Field pH 6 (pH meter); Clear change to -
C2 2.37 - 2.67 r	 Yellowish red (5YR5/6-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Granodiorite, coarse fragments; Field pH 5.5 (pH meter);
Morphological No	tes Abundant fungal hyphae

- Abundant fungal hyphae. Fungal hyphae also present. Dry pit face had lattice of cracks (both horizontal and vertical). Cracks as above. Several old root channels have been infilled with soil. Pale colour would indicate partially weathered tor. A1 B1 B21 B22 C1

Observation Notes

PGP centre peg 2m north of pit. Site was post TSI. Dry ash site.

Site Notes

PGP14, BAGO S.F., COMPT 106

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Laboratory Test Results:

Depth	рН	1:5 EC			le Cations	N	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0.02 - 0.1	4.15C 4.92A		1.79H	0.96	0.46	0.07	4.26J 0K		7.55E	
0.15 - 0.26	4.07C 4.96A		0.15H	0.87	0.74	0.03	4.48J 0K		6.27E	
0.32 - 0.4	4C 4.87A		0.05H	0.62	0.59	0.02	4.91J 0K		6.19E	
0.82 - 1.02	3.98C 4.89A		0.02H	0.45	0.37	0.01	4.18J 0K		5.03E	
1.62 - 1.82	4C 4.83A		0.02H	0.19	0.25	0.03	2.4J 0K		2.89E	
2.52 - 2.72	4.25C 5.22A		0.02H	0.1	0.23	0.02	0.69J 0K		1.05E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk			Analysi	
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV CS	FS %	Silt	Clay
0.02 - 0.1		7.74B		284.3B	0.19A		0.88	7.77			
0.15 - 0.26		1.9B		265.7B	0.07A		1.11	8.25			
0.32 - 0.4		0.83B		244.9B	0.04A		1.31	8.32			
0.82 - 1.02		0.29B		210.6B	0.02A		1.38	10.13			
1.62 - 1.82		0.17B		169.1B	0.01A			5.45			
2.52 - 2.72		0.08B		167.9B	0.01A			9.18			

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m				g/	g - m3/m3	3			mm/h	mm/h

0.02 - 0.1
0.15 - 0.26
0.32 - 0.4
0.82 - 1.02
1.62 - 1.82
2.52 - 2.72

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Laboratory Analyses Completed for this profile

15_NR 15E1_AL 15E1_CA 15E1_H 15E1_K 15E1_MG 15E1_NA 2A1 4A1 4B2 6B2 7A2 9A3	Sum of Ex. cations + Ex. acidity - Not recorded Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Air-dry moisture content pH of 1:5 soil/water suspension pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - semimicro Kjeldahl , automated colour Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
•••••	
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3

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