Project Name:	BAGO-MARA	GLE FORES	T SOIL SU	IRVEY
Project Code:	BGM_FSS	Site ID:	0079	Observation ID:
Agency Name:	CSIRO Divisio	on of Soils (A	ACT)	

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Site Information

Desc. I Date D Map Re	esc.: ef.: ng/Long.: g/Lat.:	N.J. N 08/01/ Sheet 60355	AcKenzie /95 No. : 8526 DGPS 536 AMG zone: 55 52 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		1056 met No Data No Data No Data	tres	
Geol. F		No Da SGG	ata				No Data Granod	
Morph Elem. Slope:	ope Class: . Type: Type:	: No Data Upper-slope No Data 28 %		Pattern Type: Relief: Slope Category: Aspect:		No Data No Data No Data 315 degrees		
Erosic			on (dry): Firm					
Austra	lian Soil C	lassific				ng Unit:	_	N/A
loamy (Clayey Very	y deep	rmosol Medium Non-gravelly	Clay-		pal Profile		Gn4.11
All nec	•	alytical o	data are available.			Soil Group):	N/A
Veget	ation:		nited clearing, for example se	elective loggi	ng			
	<u>ce Coarse</u> e Morphol		<u>ments:</u>					
01	0 - 0.02 r		Organic Layer; ;					
A11	0.02 - 0.1	14 m	Dark reddish brown (5YR3/2-Moist); ; Clay Ioam; Moderate grade of structure, 2-5 mm, Granul Moderately moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Commo medium (2-5mm) roots; Gradual, Smooth change to -					bed faces or walls coated,
A12	0.14 - 0.2	28 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; 2-10%, cobbly, 60-200mm, subangular, dispersed, Granodiorite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Smooth change to -					
B1	0.28 - 0.5	52 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Granular; 10-20 mm, Polyhedral; Moderately moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 7 (Raupach); 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	0.52 - 0.8	32 m	Dark red (2.5YR3/5-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; 10-20 mm, Polyhedral; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, subangular platy, dispersed, Granodiorite, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subangular, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Smooth change to -					
B22	0.82 - 1.4	42 m	Dark red (2.5YR3/5-Moist); Moderately moist; Firm cons Granodiorite, coarse fragme Common cutans, 10-50% of fine (0-1mm) roots; Gradual	sistence; 2-1 ents; 2-10%, f ped faces c	0%, cob cobbly, r walls c	bly, 60-200 60-200mm coated, fain)mm, sub , angular	bangular, dispersed,
B31	1.42 - 2.1	12 m	Red (2.5YR4/6-Moist); Subs grade of structure, 10-20 m <10% of ped faces or walls	m, Polyhedra	al; Mode	rately mois	t; Firm co	onsistence; Few cutans,

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B32 2.12 - 3.02 m Yellowish red (5YR5/6-Moist); Substrate influence, 10YR62, 20-50%, Prominent; Medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Dry; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach);

Morphological Notes

 A11
 Very organic, soft, low density layer.

 A12
 Gradational from layer 1.

 B1
 Soft, very fine structure.

 B21
 Basalt - coarse fragments and ground material. Density increases and softness is less.

 B31
 Pedality may be moderate.

Observation Notes

Site Notes

COMP 10H, 65069-1, BRG69 800M

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	n	Cmol				%
0 - 0.02 0.02 - 0.14	5.39C		23.82H	2.68	1.58	0.05	0.29J		28.41E	
0.14 - 0.28	5.51C		14.28H	1.89	1.75	0.05	0K 0.06J 0K		18.03E	
0.28 - 0.52	5.51C		7.77H	1.15	1.39	0.04	0.03J 0K		10.37E	
0.52 - 0.82	5.17C		5.04H	1.6	0.91	0.03	0.21J 0K		7.77E	
0.82 - 1.42	5.32C		5.16H	1.79	1.03	0.03	0.03J 0K		8.04E	
1.42 - 2.12	4.94C		3.87H	2.54	0.51	0.06	0.09J 0.04K		7.11E	
2.12 - 3.02	4.77C		2.91H	2.58	0.14	0.09	0.04K 0.13J 0K		5.85E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Par GV	ticle Size CS FS	Analysis Silt Clay
m	%	%	r mg/kg	Р %	%	к %	Mg/m3	Gv	C3 F3 %	Silt Clay
0 - 0.02										
0.02 - 0.14		8.12B		1407.6B	0.34A		0.65	32.86		
0.14 - 0.28		3.59B		1173.6B	0.2A		0.89	30.44		
0.28 - 0.52		1.64B		809.9B	0.08A		0.91	28.53		
0.52 - 0.82		1.17B		580.7B	0.04A		1.31	38.97		
0.82 - 1.42		0.65B		464.5B	0.03A			35.63		
1.42 - 2.12		0.21B		352.6B	0.02A			31.83		
2.12 - 3.02		0.19B		317.6B	0.01A			30.25		
Depth	COLE			imetric/Volu					K sat	K unsat
		Sat.	0.05 Bar			Bar	5 Bar 15	Bar		
m				g/g -	- m3/m3				mm/h	mm/h
0 - 0.02										

0 - 0.02 0.02 - 0.14 0.14 - 0.28 0.28 - 0.52 0.52 - 0.82 0.82 - 1.42 1.42 - 2.12 2.12 - 3.02

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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 4B2 6B2	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 H - 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 Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Air-dry moisture content pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric
15E1 NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
2A1 4B2	Air-dry moisture content pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
7A2	Total nitrogen - semimicro Kieldahl, automated colour
9A3 P10_GRAV	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Gravel (%)
P3A1	Bulk density - g/cm3