Project Name: Regional

Project Code: REG Site ID: T83 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.G. Murtha Locality: 43M west of Lake Eacham Malanda Road at

Peeramon turnoff:

Date Desc.: Elevation: 14/03/69 792 metres Sheet No.: 8063 1:100000 Map Ref.: Rainfall: 1727 Northing/Long.: 145.608333333333 Moderately rapid Runoff: Easting/Lat.: -17.305555555556 Drainage: No Data

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Pgb Substrate Material: Undisturbed soil core, Granite

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3- Pattern Type: Low hills

10%

Morph. Type:No DataRelief:61 metresElem. Type:HillslopeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AAcidic Mesotrophic Red DermosolPrincipal Profile Form:Gn3.14

ASC Confidence: Great Soil Group: Red podzolic soil

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Weak consistence;

Vegetation:

Surface Coarse Fragments:

<u>Profil</u>	e Morphology	
A1	0 - 0.1 m	Black (10YR2/1-Moist); Black (10YR2/1-Dry); ; Clay loam (Heavy); Strong grade of structure, 10-20 mm, Angular blocky; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Many, fine (1-2mm) roots; Diffuse change to -
A21	0.1 - 0.2 m	Brown (7.5YR4/3-Moist); Brown (7.5YR4/3-Dry); , 10YR21; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Weak consistence; Many, fine (1-2mm) roots; Diffuse change to -
A22	0.2 - 0.3 m	Brown (7.5YR4/4-Moist); Brown (7.5YR4/4-Dry); ; Light clay (Heavy); Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Few, fine (1-2mm) roots;
A22	0.3 - 0.5 m	Brown (7.5YR4/4-Moist); Brown (7.5YR4/4-Dry); ; Light clay (Heavy); Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Few, fine (1-2mm) roots; Diffuse change to -
B1	0.5 - 0.6 m	Yellowish red (5YR4/6-Moist); , 7.5YR44; Light clay (Heavy); Strong grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
B21	0.6 - 0.9 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
B21	0.9 - 1.2 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
B22	1.2 - 1.5 m	Red (2.5YR4/8-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -
B22	1.5 - 1.8 m	Red (2.5YR4/8-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence;
В3	1.8 - 2.1 m	Red (2.5YR4/8-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist;

Project Name: Regional

Project Code: Agency Name: REG Site ID: T83 Observation ID: 1

CSIRO Division of Soils (QLD)

Red (2.5YR4/8-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -2.1 - 2.3 m

ВС Red (2.5YR5/8-Moist);; Sandy clay loam; Moist; Very weak consistence; 2.3 - 2.6 m

С 2.6 - 2.85 m

Morphological Notes

Weathered granite:

Observation Notes

MUCH FINE WEATHERED PARENT MATERIAL FROM 90CM SOFT WEATHERED FELDSPARS FROM 60-11:10-30CM FEW WORM CASTS WITH A1 MATERIAL:

Site Notes

PEERAMON

Site ID: T83 Observation ID: 1

Project Name: Project Code: Agency Name: Regional
REG Site ID: T83
CSIRO Division of Soils (QLD)

|--|

Depth	рН	1:5 EC		hangeable			hangeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity I				%	ó
0 - 0.1	5.8A	0.089A	15 7B	6.3	1	0.31						
0.1 - 0.2	6A	0.038A		2.8	0.4	0.28						
0.2 - 0.3	6A	0.026A	5.5B	2.2	0.4	0.23						
0.3 - 0.5	5.8A	0.023A	0.02		• • •	0.20						
0.5 - 0.6	5.6A	0.02A										
0.6 - 0.9	5.2A	0.017A	1.3B	1	0.1	0.21						
0.9 - 1.2	5A	0.026A										
1.2 - 1.5	5A	0.023A	0.4B	0.2	0.4	0.24						
1.5 - 1.8	4.9A	0.029A										
1.8 - 2.1	4.9A	0.035A										
2.1 - 2.3	4.9A	0.035A										
2.3 - 2.6	5A	0.029A										
2.6 - 2.85	5A	0.026A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle S	Sizo A	nalysis	
Бории	ouooo	C	P	P	N	K	Density	GV		FS	Silt C	Clav
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 04			200	0.0464		0.0574		40	200	4	0	40
0 - 0.1 0.1 - 0.2			30B 7.6B	0.046A 0.026A		0.357A 0.274A		40 36	29D 42D	4	6	42
0.1 - 0.2			7.66 4.4B	0.026A 0.021A		0.274A 0.274A		36 28	42D 28D	3 3	6 5	41 54
0.2 - 0.3			4.4B 10B	0.021A	1	0.274A		20	200	3	5	54
0.5 - 0.6			100									
0.6 - 0.9			2B	0.012A		0.283A		33	26D	8	13	48
0.9 - 1.2				0.0127	•	0.2007		00	202	Ü	.0	
1.2 - 1.5				0.01A		0.248A		30	17D	13	16	50
1.5 - 1.8												
1.8 - 2.1												
2.1 - 2.3								28	20D	9	11	56
2.3 - 2.6				0.008A	١	0.298A						
2.6 - 2.85												
Depth	COLE Gravimetric/Volumetric Water Contents K sat K unsat											
	-	Sat.	0.05 Bar		0.5 Bar			Bar		•		
m					g - m3/m				mm/h	1	mm/h	
0 - 0.1												

^{0 - 0.1} 0.1 - 0.2 0.2 - 0.3 0.3 - 0.5 0.5 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.3 2.3 - 2.6 2.6 - 2.85

Project Name: Regional

Project Code: REG Site ID: T83 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

15A2_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

15A2_K Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2_MG Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts

17A1 Total potassium - X-ray fluorescence

2A1 Air-dry moisture content
3A1 EC of 1:5 soil/water extract
4A1 pH of 1:5 soil/water suspension
9A1 Total phosphorus - X-ray fluorescence

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_GRAV Gravel (%)

P10_PB_C Clay (%) - Plummet balance
P10_PB_CS Coarse sand (%) - Plummet balance
P10_PB_FS Fine sand (%) - Plummet balance
P10_PB_Z Silt (%) - Plummet balance