

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T83 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.G. Murtha	<b>Locality:</b>	43M west of Lake Eacham Malanda Road at Peeramon turnoff:
<b>Date Desc.:</b>	14/03/69	<b>Elevation:</b>	792 metres
<b>Map Ref.:</b>	Sheet No. : 8063 1:100000	<b>Rainfall:</b>	1727
<b>Northing/Long.:</b>	145.608333333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-17.3055555555556	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Pgb	<b>Substrate Material:</b>	Undisturbed soil core, Granite

**Land Form**

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	61 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Acidic Mesotrophic Red Dermosol		<b>Principal Profile Form:</b>	Gn3.14
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red podzolic soil

All necessary analytical data are available.

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:**

**Surface Coarse Fragments:**

**Profile 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;
B3	1.8 - 2.1 m	Red (2.5YR4/8-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence;

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B3 2.1 - 2.3 m Red (2.5YR4/8-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -

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

C 2.6 - 2.85 m ;

**Morphological Notes**

C 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

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[illegible]

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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 H <sub>2</sub> SO <sub>4</sub> (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