

Project Name: Regional
Project Code: REG **Site ID:** T321 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	28/11/81	Elevation:	40 metres
Map Ref.:	Sheet No. : 7964 1:100000	Rainfall:	0
Northing/Long.:	145.416666666667	Runoff:	No Data
Easting/Lat.:	-16.5	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial fan
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Fan	Slope Category:	No Data
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Dystrophic Red Kandosol		Principal Profile Form:	Gn2.21
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.1 m	Reddish brown (5YR4/4-Moist); , 0-0% ; , 0-0% ; Clay loam (Heavy); Massive grade of structure; Earthy fabric; Moist; Weak consistence;
Ap	0.1 - 0.3 m	Reddish brown (5YR4/4-Moist); , 0-0% ; , 0-0% ; Light clay (Heavy); Massive grade of structure; Earthy fabric; Moist; Weak consistence; Clear change to -
B21	0.3 - 0.6 m	Yellowish red (5YR5/6-Moist); , 0-0% ; , 0-0% ; Light medium clay (Heavy); Massive grade of structure; Earthy fabric; Moist; Weak consistence;
B22	0.6 - 0.9 m	Red (2.5YR5/6-Moist); , 0-0% ; , 0-0% ; Medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Metamorphic rock (unidentified), coarse fragments; Clear change to -
B33	0.9 - 1.2 m	Red (2.5YR4/6-Moist); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Metamorphic rock (unidentified), coarse fragments; Diffuse change to -
B3	1.2 - 1.5 m	Red (2.5YR5/8-Moist); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Metamorphic rock (unidentified), coarse fragments;
B3	1.5 - 1.8 m	Red (2.5YR4/6-Moist); , 10YR66, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Metamorphic rock (unidentified), coarse fragments;
	1.8 - 2.1 m	Red (2.5YR4/6-Moist); , 10YR66, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Metamorphic rock (unidentified), coarse fragments;

Morphological Notes

Observation Notes

Ap HORIZON IS A MIXTURE OF A AND B HORIZON MATERIALS

Site Notes

MOSSMAN

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.1A	0.053A	0.89H	0.2	0.27	0.04	1F	2.5A 3C	2.4F	1.60 1.33
0.1 - 0.3	5.1A	0.05A								
0.3 - 0.6	4.6A	0.05A	0.14H	<0.01	0.1	0.03	1.8F	1.8A 2C	2.1F	1.67 1.50
0.6 - 0.9	4.6A	0.032A								
0.9 - 1.2	4.8A	0.026A	0.67H	<0.01	0.1	0.02	1.1F	2.11A 3C	1.9F	0.95 0.67
1.2 - 1.5	5.1A	0.023A								
1.5 - 1.8	5A	0.023A								
1.8 - 2.1	5A	0.02A								

[illegible][illegible]

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Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
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
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)