

Project Name: Regional
Project Code: REG **Site ID:** T130 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	5.3KM north of McDonnell camp and telephone line junction:
Date Desc.:	14/07/70	Elevation:	No Data
Map Ref.:	Sheet No. : 7374 1:100000	Rainfall:	1680
Northing/Long.:	142.45	Runoff:	Rapid
Easting/Lat.:	-11.6	Drainage:	Well drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Jkb	Substrate Material:	Undisturbed soil core, Sandstone

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	24 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Class Undetermined Red Kandosol	Principal Profile Form:	Gn2.14
ASC Confidence:	Great Soil Group:	Red earth

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - None recorded
 Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Grevillea glauca
 Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus tetrodonta, Eucalyptus polycarpa

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, subrounded, Gravel

Profile Morphology

A11	0 - 0.1 m	Strong brown (7.5YR4/6-Moist); Reddish yellow (7.5YR6/6-Dry); ; Loamy sand; Weak grade of structure, 5-10 mm, Angular blocky; Massive grade of structure; Dry; Firm consistence; Few, medium (2-5mm) roots; Gradual change to -
A2	0.1 - 0.2 m	Yellowish red (5YR4/8-Moist); Yellowish red (5YR5/7-Dry); ; Sandy loam (Light); Weak grade of structure, 5-10 mm, Angular blocky; Massive grade of structure; Dry; Firm consistence;
A2	0.2 - 0.3 m	Yellowish red (5YR4/8-Moist); Yellowish red (5YR5/7-Dry); ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few, fine (1-2mm) roots;
B1	0.3 - 0.4 m	Red (2.5YR5/8-Moist); ; Sandy loam (Heavy); Massive grade of structure; Moderately moist; Very weak consistence;
B1	0.4 - 0.5 m	Red (2.5YR5/8-Moist); , 10YR68, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Sandy loam (Heavy); Massive grade of structure; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;
B1	0.5 - 0.6 m	Red (2.5YR5/8-Moist); , 10YR68, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Sandy loam (Heavy); Massive grade of structure; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;
B21	0.6 - 0.75 m	Red (2.5YR4/8-Moist); , 10YR68, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Moderately moist; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B21	0.75 - 0.9 m	Red (2.5YR4/8-Moist); , 10YR68, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy clay loam (Heavy); Massive grade of structure; Moderately moist; Weak consistence; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules;
B22	0.9 - 1.2 m	Red (2.5YR4/8-Moist); , 10YR68, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Weak consistence;

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B22	1.2 - 1.35 m	Red (2.5YR4/8-Moist); , 10YR68, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
	1.35 - 1.5 m	Red (2.5YR4/8-Moist); ; Light medium clay; Massive grade of structure; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
	1.5 - 1.8 m	Red (2.5YR4/8-Moist); ; Light medium clay; Massive grade of structure; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
	1.8 - 2.1 m	Red (2.5YR4/8-Moist); , 5YR56, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Light clay; Massive grade of structure; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Nodules;
	2.1 - 2.2 m	Red (10R4/7-Moist); ; Light clay; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Sandstone, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

210-+CM VERY FEW 2CM ROUNDED QZ GRAVEL:

Site Notes

MC DONNELL

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.1	5.5A	0.032A							
0.1 - 0.2	5.3A	0.05A							
0.2 - 0.3	5.6A	0.026A							
0.3 - 0.4	5.7A	0.02A							
0.4 - 0.5	5.6A	0.023A							
0.5 - 0.6	5.5A	0.023A							
0.6 - 0.75	5.4A	0.026A							
0.75 - 0.9	5.4A	0.02A							
0.9 - 1.2	5.4A	0.023A							
1.2 - 1.35	5.6A	0.026A							
1.35 - 1.5	5.7A	0.029A							
1.5 - 1.8	5.7A	0.035A							
1.8 - 2.1	5.6A	0.026A							
2.1 - 2.35	5.6A	0.029A							

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
17A1	Total potassium - X-ray fluorescence
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
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)