

Project Name: Regional
Project Code: REG **Site ID:** T330 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.J. Coventry	Locality:	
Date Desc.:	22/08/74	Elevation:	No Data
Map Ref.:	Sheet No. : 7956 1:100000	Rainfall:	600
Northing/Long.:	145.211111111111	Runoff:	No Data
Easting/Lat.:	-20.723611111111	Drainage:	No Data

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

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

All necessary analytical data are available.

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

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Very sparse. *Species includes - Triodia pungens
Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Acacia species
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus whitei

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); Dark red (2.5YR3/6-Dry); ; Sandy loam (Heavy); Massive grade of structure; Dry; Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
A3	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Dry; Weak consistence; Gradual change to -
B1	0.2 - 0.3 m	Red (10R4/8-Moist); Red (2.5YR4/8-Dry); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence;
B1	0.3 - 0.6 m	Red (10R4/8-Moist); ; Sandy clay loam (Light); Massive grade of structure; Dry; Firm consistence; Gradual change to -
B2	0.6 - 0.9 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence;
B2	0.9 - 1.2 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence;
B2	1.2 - 1.5 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.5 - 1.8 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.8 - 2.1 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	2.1 - 2.4 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	2.4 - 2.7 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	2.7 - 3 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

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B2	3 - 3.5 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	3.5 - 4 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	4 - 4.5 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	4.5 - 4.9 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
C	4.9 - 5.5 m	Red (10R4/8-Moist); ; 7.5YR58, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
C	5.5 - 6 m	Red (10R4/8-Moist); ; 7.5YR58, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

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[illegible]

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0.9 - 1.2
1.2 - 1.5
1.5 - 1.8
1.8 - 2.1
2.1 - 2.4
2.4 - 2.7
2.7 - 3
3 - 3.5
3.5 - 4
4 - 4.5
4.5 - 4.9
4.9 - 5.5
5.5 - 6

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
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
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
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 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 (%)