Project Name: Regional

Project Code: Site ID: T330 Observation ID: 1 REG

Agency Name: CSIRO Division of Soils (QLD)

Site Information

R.J. Coventry Locality:

Desc. By: Date Desc.: Elevation: 22/08/74 No Data Sheet No.: 7956 1:100000 Map Ref.: Rainfall: 600 Northing/Long.: 145.211111111111 Runoff: No Data -20.7236111111111 No Data Easting/Lat.: Drainage:

Geology

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

Land Form

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

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.

<u>Site Disturbance:</u> 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

1 101110	mor priorogy	
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 -
А3	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 -
С	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;
С	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
Site Notes

Observation ID: 1

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Laboratory Test Results:

Depth	рН	1:5 EC	Exc	hangeable	Cations	Exc	changeable	CEC	E	ECEC	ES	SP
m	-	dS/m	Ca	Mg	K	Na Cmol (+)/k	Acidity g				%)
0 - 0.1 0.1 - 0.2	6.3A	0.051A 0.03A	2.23H	1.08	0.19	0.02	0.28F	4A		3.8F	0.	50
0.2 - 0.3 0.3 - 0.6	6.4A		0.74H	1.04	0.14	0.02	0.17F	2.6A		2.1F	0.	77
0.6 - 0.9 0.9 - 1.2	5.4A		0.15H	1.08	0.11	0.04	0.73F	2.7A		2.1F	1.	48
1.2 - 1.5 1.5 - 1.8	5.5A		0.05H	1.36	0.07	0.03	0.36F	2.43	A	1.9F	1	23
1.8 - 2.1 2.1 - 2.4	5.6A 5A	0.046A 0.047A	<0.02H	2.06	0.06	0.04	0.35F	2.8A	ı.	2.5F	1.	43
2.4 - 2.7 2.7 - 3	5.1A 5.2A	0.041A 0.037A										
3 - 3.5 3.5 - 4	5.2A 5.4A	0.041A 0.03A	<0.02H	1.78	0.05	0.04	0.18F	2.7A		2.1F	1.	48
4 - 4.5 4.5 - 4.9 4.9 - 5.5	5.2A 5.4A 5.4A	0.026A										
5.5 - 6	5.4A	0.026A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pai GV	rticle \$	Size <i>F</i>	nalysis Silt C	lav
m	%	%	mg/kg		%	%	Mg/m3	O.	00	%	Siit C	пау
0 - 0.1 0.1 - 0.2		0.92D 0.5D	12B 6B	0.011A	0.03 0.02		1	0	47A 43A	34 37	6 6	14 14
0.2 - 0.3 0.3 - 0.6		0.38D	2B	0.008A				0	43A 38A	34 32	5 4	18
0.6 - 0.9 0.9 - 1.2				0.006A	١	0.06A	1	1 1	36A 35A	29 30	5 5	30 31
1.2 - 1.5 1.5 - 1.8				0.005A	١	0.06A	1	1 1	35A 30A	28 29	5 5	32 36
1.8 - 2.1 2.1 - 2.4				0.007A	١	0.07A	.	1	30A 30A	27 25	5 5	28 40
2.4 - 2.7 2.7 - 3 3 - 3.5								3 2 1	28A 33A 31A	28 28 29	5 6 7	38 34 34
3.5 - 4 4 - 4.5				0.005A	٨	0.07A		1	29A 29A	32 33	7 8	33 31
4.5 - 4.9 4.9 - 5.5								2	31A 31A	32 33	8	29 28
5.5 - 6								7	32A	33	8	26
Depth	COLE	Sat.	Grav		lumetric W 0.5 Bar	/ater Conter 1 Bar		Bar	K sa	t	K unsat	
m					g - m3/m3				mm/ł	h	mm/h	
0 - 0.1												

^{0 - 0.1} 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9

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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 4.9 - 5.5 5.5 - 6

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon 13C1_FE

15A2_CEC Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts

15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 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

Effective CEC 15J1

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

Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) Clay (%) - Coventry and Fett pipette method 9G BSES

P10_CF_C

P10_CF_CS Coarse sand (%) - Coventry and Fett pipette method P10_CF_FS P10_CF_Z Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)