Project Name: Regional

Project Code: Site ID: T335 Observation ID: 1 REG

CSIRO Division of Soils (QLD) Agency Name:

Site Information

R.J. Coventry Locality:

Desc. By: Date Desc.: Elevation: 20/08/74 No Data Sheet No.: 7956 1:100000 Map Ref.: Rainfall: 600 Northing/Long.: 145.20555555556 Runoff: No Data Easting/Lat.: -20.722222222222 No Data Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Auger boring **Substrate Material:** No Data Geol. Ref.: 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 Haplic Magnesic Red Kandosol **Principal Profile Form:** Gn2.11 **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, Aristida leptopoda

Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Grevillea glauca, Grevillea pteridifolia Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus setosa, Eucalyptus similis

Surface Coarse Fragments: No surface coarse fragments

to -

Profile Morphology

I TOTTIC	Wildipilology	
A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); Brown (7.5YR5/4-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; Gradual change to -
A3	0.1 - 0.2 m	Red (2.5YR4/8-Moist); Yellowish red (5YR5/8-Dry); ; Sandy loam (Light); Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;
A3	0.2 - 0.25 m	Red (2.5YR4/8-Moist); Yellowish red (5YR5/8-Dry); ; Sandy loam (Light); Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
B1	0.25 - 0.2 m	Red (2.5YR4/8-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence;
B1	0.3 - 0.6 m	Red (2.5YR4/8-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence;
B1	0.6 - 0.7 m	Red (10R4/8-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; Gradual change to -
B2	0.7 - 0.9 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B2	0.9 - 1.2 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B2	1.2 - 1.5 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.5 - 1.8 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.8 - 2.1 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change

Project Name: Regional **Project Code:** REG Site ID: T335 Observation ID: 1 **CSIRO** Division of Soils (QLD) **Agency Name:** 2.1 - 2.4 m $Red \; (10R4/8-Moist); \; , \; 7.5YR56, \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \; 5-15mm, \; Prominent; \; , \; 20-50\% \; , \;$ Sandy medium clay; Massive grade of structure; Moist; Very strong consistence; 10-20%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Red (10R4/8-Moist); , 7.5YR56, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; С 2.4 - 2.7 m Sandy medium clay; Massive grade of structure; Moist; Very strong consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; 2.7 - 3 m Red (10R4/8-Moist); , 7.5YR56, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; С Sandy medium clay; Massive grade of structure; Moist; Very strong consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous,

Medium (2 -6 mm), Nodules;

Morphological Notes Observation Notes Site Notes

Site ID: T335 Observation ID: 1

Project Name: Project Code: Agency Name: Regional
REG Site ID: T33
CSIRO Division of Soils (QLD)

Depth	рН	1:5 EC		changeable			hangeable	CEC		ECEC	ı	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity 9					%
0 - 0.1	6A		0.76H	0.79	0.09	0.02	0.17F	1.87	4	1.8F	1	1.07
0.1 - 0.2	5.5A	0.018A										
0.2 - 0.25	5.2A	0.021A										
0.25 - 0.3	5A	0.021A										
0.3 - 0.6	5.3A	0.028A										
0.6 - 0.7	5.5A	0.042A										
0.7 - 0.9	5.5A		<0.02H	1.4	0.05	0.03	0.21F	1.94	١.	1.7F	1	1.58
0.9 - 1.2	5.4A	0.024A										
1.2 - 1.5	5.4A	0.036A	<0.02H	1.4	0.05	0.03	0.17F	1.73/	4	1.7F	1	1.73
1.5 - 1.8	5.5A	0.022A										
1.8 - 2.1	5.6A	0.02A	<0.02H	1.68	0.04	0.03	0.28F	1.64	١.	2.1F	1	1.88
2.1 - 2.4	5.7A											
2.4 - 2.7	5.6A	0.026A										
2.7 - 3	5.7A	0.023A										
Depth	CaCO3	0										
	Cacos	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysis	5
-		Č	Р	Р	N	K	Density	Pa GV	rticle CS	FS	Analysis Silt	
m	%			Р							•	
m 0 - 0.1		Č	Р	Р	N %	K %	Density Mg/m3			FS %	•	
		C %	Р	P %	N %	к % 3A 0.06A	Density Mg/m3	GV	cs	FS %	Silt	Clay
0 - 0.1		c % 0.53D	Р	P %	N %	к % 3A 0.06A	Density Mg/m3	3 2 2	cs 41A	FS % 40 46	Silt 5	Clay 14
0 - 0.1 0.1 - 0.2		c % 0.53D	Р	P %	N %	K % 3A 0.06A 8A	Density Mg/m3	3 2 2 2	41A 39A 36A 37A	FS % 40 46 47 45	Silt 5 4	14 11
0 - 0.1 0.1 - 0.2 0.2 - 0.25		0.53D 0.36D	Р	P %	N % 0.03 0.01	K % 3A 0.06A 8A	Density Mg/m3	3 2 2 2 3	41A 39A 36A	FS % 40 46 47 45	Silt 5 4 5	14 11 12
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3		0.53D 0.36D	Р	P %	N % 0.03 0.01	% % 3A 0.06A 8A 9A	Density Mg/m3	3 2 2 2 3 3	41A 39A 36A 37A	FS % 40 46 47 45 38	5 4 5 4	14 11 12 14
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6		0.53D 0.36D	Р	P %	N % 0.00 0.01	K % 3A 0.06A 8A	Density Mg/m3	3 2 2 2 3 3 4	41A 39A 36A 37A 40A 38A 34A	40 46 47 45 38 37 38	5 4 5 4 4	14 11 12 14 19 21 24
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7		0.53D 0.36D	Р	P %	N % 0.00 0.01	% % 3A 0.06A 8A 9A	Density Mg/m3	3 2 2 2 3 3	41A 39A 36A 37A 40A 38A 34A 32A	FS % 40 46 47 45 38 37 38 39	5 4 5 4 4 4 4	14 11 12 14 19 21 24 24
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5		0.53D 0.36D	Р	P %	N % 0.00 0.01	% % 3A 0.06A 8A 9A	Density Mg/m3	3 2 2 2 3 3 4 7 10	41A 39A 36A 37A 40A 38A 34A 32A 34A	FS % 40 46 47 45 38 37 38 39 38	5 4 5 4 4 4 4 5 5	14 11 12 14 19 21 24 24 23
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8		0.53D 0.36D	Р	0.007A	N % A 0.03 0.01 0.01	8A 0.06A 8A 0.05A	Density Mg/m3	3 2 2 2 3 3 4 7 10	41A 39A 36A 37A 40A 38A 34A 32A 34A 35A	FS % 40 46 47 45 38 37 38 39 38 36	5 4 5 4 4 4 4 5 5 5	14 11 12 14 19 21 24 24 23 24
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1		0.53D 0.36D	Р	P %	N % A 0.03 0.01 0.01	% % 3A 0.06A 8A 9A	Density Mg/m3	3 2 2 2 3 3 4 7 10 12	41A 39A 36A 37A 40A 38A 34A 32A 35A 37A	FS % 40 46 47 45 38 37 38 39 38 36 33	5 4 4 4 4 4 5 5 5 5	14 11 12 14 19 21 24 24 23 24 24
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.4		0.53D 0.36D	Р	0.007A	N % A 0.03 0.01 0.01	8A 0.06A 8A 0.05A	Density Mg/m3	3 2 2 2 3 3 4 7 10 12 11 21	41A 39A 36A 37A 40A 38A 34A 35A 37A 38A	40 46 47 45 38 37 38 39 38 36 33	5 4 4 4 4 4 5 5 5 6	Clay 14 11 12 14 19 21 24 24 23 24 24 25
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.4 2.4 - 2.7		0.53D 0.36D	Р	0.007A	N % A 0.03 0.01 0.01	8A 0.06A 8A 0.05A	Density Mg/m3	3 2 2 2 3 3 4 7 10 12 11 21 12	41A 39A 36A 37A 40A 38A 34A 35A 37A 38A 37A	40 46 47 45 38 37 38 39 38 36 33 32 32	5 4 5 4 4 4 4 5 5 5 6 6 7	Clay 14 11 12 14 19 21 24 24 24 25 25
0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.4		0.53D 0.36D	Р	0.007A	N % A 0.03 0.01 0.01	8A 0.06A 8A 0.05A	Density Mg/m3	3 2 2 2 3 3 4 7 10 12 11 21	41A 39A 36A 37A 40A 38A 34A 35A 37A 38A	40 46 47 45 38 37 38 39 38 36 33 32 32	5 4 4 4 4 4 5 5 5 6	Clay 14 11 12 14 19 21 24 24 23 24 24 25

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h

0 - 0.1 0.1 - 0.2 0.2 - 0.25

0.2 - 0.25 0.25 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.4 2.4 - 2.7

Project Name: Project Code: Agency Name: Regional
REG Site ID: T33
CSIRO Division of Soils (QLD) T335 Observation ID: 1

2.7 - 3

Project Name: Regional

Project Code: REG Site ID: T335 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

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 (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 15E1_K
Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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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 P10_CF_C Clay (%) - Coventry and Fett pipette method

P10_CF_CS Coarse sand (%) - Coventry and Fett pipette method
P10_CF_S Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)