Project Name: REG

Project Code: REG Site ID: T239 Observation ID: 1

Agency Name: CSIRO Division of Soils (WA)

**Site Information** 

Desc. By: R.F. Isbell Locality: Approx 12KM north of New Mt. Elizabeth:50M south of

SW corner of A. Holm grazing trial:

Date Desc.: 12/09/74 Elevation: No Data Map Ref.: Sheet No.: 4165 1:100000 Rainfall: 760 No Data Northing/Long.: 126.06666666667 Runoff: Easting/Lat.: -16.2666666666667 Drainage: No Data

Geology

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

**Land Form** 

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Alluvial plain

1-3%
Simple-slope
Relief:
No Data

Morph. Type:Simple-slopeRelief:No DataElem. Type:PlainSlope Category:Very gently sloped

Slope: 0 % Aspect: No Data

Surface Soil Condition (dry): Hardsetting

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AHaplic Mesotrophic Red KandosolPrincipal Profile Form:Gn2.11ASC 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 - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded

Tall Strata - Tree, , . \*Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A1	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy loam (Heavy); Massive grade of structure; Strong consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B1	0.1 - 0.2 m	Dusky red (10R3/4-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B1	0.2 - 0.3 m	Dusky red (10R3/4-Moist); ; Sandy clay loam; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B2	0.3 - 0.6 m	Dusky red (10R3/4-Moist); ; Light medium clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B2	0.6 - 0.9 m	Dark red (10R3/5-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B2	0.9 - 1.2 m	Dark red (10R3/5-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
	1.2 - 1.5 m	Dark red (10R3/5-Moist); ; Light medium clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
	1.5 - 1.8 m	Dark red (10R3/5-Moist); ; Medium clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
	1.8 - 2.1 m	Dark red (10R3/5-Moist); ; Medium clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

## **Morphological Notes**

**Observation Notes** 

**Site Notes** 

NTH KIMBERLY

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Project Name: REG
Project Code: REG Site ID: T2
Agency Name: CSIRO Division of Soils (WA) Site ID: T239 Observation ID: 1

## **Laboratory Test Results:**

Depth	рН	1:5 EC		changeable Cations		Exchangeable		CEC	E	CEC	E	SP
m		dS/m	Ca I	Mg	K	Na Cmol (+)/k					Ç	<b>%</b>
0 - 0.1	6.8A	<0.05A	2.4B	0.79	0.18	0.03	0.04F		;	3.4F		
0.1 - 0.2	6.6A	<0.05A										
0.2 - 0.3	6.6A	<0.05A	2.32B	0.87	0.21	0.01	0.04F			3.5F		
0.3 - 0.6	6.3A	<0.05A	3.51B	1.76	0.29	0.01	0.06F			5.6F		
0.6 - 0.9	5.9A	<0.05A	4.23B	1.79	0.24	0.02	0.04F		(	6.3F		
0.9 - 1.2	5.6A	<0.05A	3.17B	1.62	0.18	0.06	0.04F	5.1F				
1.8 - 2.1	6.6A	<0.05A	3.66B	3.39	0.15	0.06						
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle S	Size A	nalysis	
-		C	Р	Р	N	K	Density	G۷	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		-
0 - 0.1		0.37D	3A	0.008A	0.03	2A 0.25A		<2	47A	35	7	11
0 - 0.1		0.370	2.4B	U.006A	0.03	ZA 0.23A	`	<2	4/A	33	,	- ' '
0.1 - 0.2		0.16D	3A	0.01A	0.01	9A 0.38A	١	<2	41A	23	4	34
			0.5B									
0.2 - 0.3		0.26D	3A 2B	0.01A	0.02	9A 0.3A		<2	43A	32	5	20
0.3 - 0.6			1.5B	0.012A		0.42A		<2	25A	20	2	52
0.6 - 0.9			3A	0.012A		0.42A		2	24A	17	4	55
0.0 - 0.9			1B	0.012A		0.437	`	2	24/1	17	4	55
0.9 - 1.2				0.014A		0.38A	٨	2	24A	23	4	48
1.8 - 2.1				0.012A		0.45A	١	2	18A	18	85	55
-												
Depth	COLE Gravimetric/Volumetric Water Contents K sat K unsa										K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/g	j - m3/m3	3			mm/h	l	mm/h	

<sup>0 - 0.1</sup> 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.2 1.8 - 2.1

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**CSIRO Division of Soils (WA) Agency Name:** 

## **Laboratory Analyses Completed for this profile**

10A1 Total sulfur - X-ray fluorescence

Total element - Cu(mg/kg) - HF/HClO4 Digest 12\_HF\_CU 12\_HF\_ZN 15A2\_CA Total element - Zn(mg/kg) - HF/HClO4 Digest

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

15A2\_K Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2\_MG 15A2\_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, 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

2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water suspension

Chloride - 1:5 soil/water extract, automated colour 5A2

6A1\_UC Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, automated colour 7A2

9A1 Total phosphorus - X-ray fluorescence

9B\_9C

Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) 9G\_BSES

Clay (%) - Coventry and Fett pipette method P10\_CF\_C P10\_CF\_CS P10\_CF\_FS P10\_CF\_Z Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method

P10\_GRAV Gravel (%)