

Project Name: Regional
Project Code: REG **Site ID:** T314 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	I. Lepsch	Locality:	
Date Desc.:	31/08/81	Elevation:	336 metres
Map Ref.:	Sheet No. : 8062 1:100000	Rainfall:	3500
Northing/Long.:	145.641666666667	Runoff:	Rapid
Easting/Lat.:	-17.625	Drainage:	Rapidly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Lava plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Dystrophic Red Ferrosol		Principal Profile Form:	Uf6.31
ASC Confidence:		Great Soil Group:	Krasnozern
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1p	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); Reddish brown (5YR4/4-Dry); ; Medium clay; Strong grade of structure, Granular; Moderately moist; Weak consistence; Clear change to -
A2p	0.1 - 0.25 m	Dark red (2.5YR3/5-Moist); Dark red (2.5YR3/6-Dry); ; Medium clay; Moderate grade of structure, Granular; Moderately moist; Very weak consistence; Gradual change to -
B11	0.25 - 0.5 m	Dark red (2.5YR3/5-Moist); Red (2.5YR4/6-Dry); ; Medium clay; Massive grade of structure; Moderately moist; Very weak consistence; Gradual change to -
B12	0.5 - 0.65 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; Clear change to -
B21	0.65 - 0.95 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Medium clay; Moderate grade of structure, Subangular blocky; Moderately moist; Firm consistence; Gradual change to -
B21	1 - 1.25 m	Reddish brown (2.5YR4/4-Moist); Yellowish red (5YR4/6-Dry); ; Medium clay; Strong grade of structure, Polyhedral; Moderately moist; Firm consistence; 2-10%, Basalt, coarse fragments; Diffuse change to -
B22	1.25 - 1.5 m	Reddish brown (2.5YR4/4-Moist); Yellowish red (5YR4/6-Dry); ; Medium clay; Strong grade of structure, Polyhedral; Moderately moist; Firm consistence; Diffuse change to -
B22	1.5 - 1.8 m	Reddish brown (2.5YR4/4-Moist); Yellowish red (5YR4/6-Dry); ; Medium clay; Strong grade of structure, Polyhedral; Moderately moist; Firm consistence; Diffuse change to -
B23	1.8 - 2.2 m	Reddish brown (2.5YR4/4-Moist); Yellowish red (5YR4/6-Dry); ; 5YR82, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Medium clay; Diffuse change to -
B23	2.2 - 2.7 m	Reddish brown (5YR4/4-Moist); Yellowish red (5YR4/6-Dry); ; 5YR82, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Medium clay; Diffuse change to -
B3	2.7 - 3.2 m	Reddish brown (5YR4/4-Moist); Yellowish red (5YR4/6-Dry); ; 5YR82, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Medium clay;

Morphological Notes

Observation Notes

STRONG VERMIFORM UNITS FROM 125 CM:

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Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol	(+)/kg			%
0 - 0.1	4.8D 5.4A		0.7H	0.55	0.15	0.05	0.4F	2.74A	1.9F	1.82
0.1 - 0.25	5.3D 5.3A		0.03H	0.08	0.07	0.03	0.3F	1.3A	0.5F	2.31
0.25 - 0.5	5.4D 5.3A		<0.02H	<0.01	0.03	0.03	0.3F		0.4F	
0.5 - 0.65	5.2D 5.2A									
0.65 - 0.95	5.4D 5.2A		0.05H	<0.01	0.03	0.03	0.3F		0.4F	
1 - 1.25	5.5D 5.2A		<0.02H	<0.01	0.02	0.02	0.2F	<0.1A	0.3F	
1.25 - 1.5	5.2D 5.1A		0.01H	0.02	0.01	<0.01				
1.5 - 1.8	4.8D 5A									
1.8 - 2.2	4.6D 5A		<0.02H	<0.01	0.04	0.03	0.6F	1.9A	0.7F	1.58
2.2 - 2.7	4.6D 5A									
2.7 - 3.2	4.7D 4.9A		<0.02H	0.13	0.03	0.04	0.3F	1.94A	0.5F	2.06

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.96D							6A	11	19	64
0.1 - 0.25		1.93D							7A	11	20	62
0.25 - 0.5		0.98D							6A	11	17	66
0.5 - 0.65									5A	10	20	65
0.65 - 0.95		0.48D							5A	11	20	64
1 - 1.25		0.2D							2A	14	13	71
1.25 - 1.5		0.12D										
1.5 - 1.8												
1.8 - 2.2										22	16	61
2.2 - 2.7												
2.7 - 3.2		0.22D							1A	27	16	56

[illegible]

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1.8 - 2.2
2.2 - 2.7
2.7 - 3.2

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Laboratory Analyses Completed for this profile

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
4A1	pH of 1:5 soil/water suspension
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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_NR_C	Clay (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded