Project Name: Regional

Project Code: REG Site ID: T317 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: Date Desc.: I. Lepsch Locality:

Elevation: 90 metres 01/09/81 Sheet No.: 8062 1:100000 Map Ref.: Rainfall: 3500 Northing/Long.: 145.85 Runoff: Rapid Easting/Lat.: -17.54583333333333 Drainage: Well drained

Geology

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

Land Form

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

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A Acidic Dystrophic Red Ferrosol **Principal Profile Form:** Uf6.31 **ASC Confidence: Great Soil Group:** Krasnozem

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

FIUITIE	Williphology	
A1	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Granular; Moderately moist; Weak consistence; Clear change to -
A3	0.1 - 0.2 m	Dark red (10R3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Granular; Moderately moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
B1	0.2 - 0.4 m	Dark red (10R3/6-Moist); ; Medium clay; Weak grade of structure, Subangular blocky; Moderately moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
B1	0.4 - 0.6 m	Dark red (10R3/6-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
B1	0.6 - 0.9 m	Dark red (10R3/6-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
B1	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Clear change to -
B21	1.2 - 1.5 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very firm consistence; Clear change to -
B21	1.5 - 1.75 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -
B22	1.8 - 2.1 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -
B22	2.1 - 2.4 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -
B22	2.4 - 2.75 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -

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 $Yellowish\ red\ (5YR4/6-Moist);\ ;\ Medium\ clay;\ Strong\ grade\ of\ structure,\ 5-10\ mm,\ Polyhedral;\ Moderately\ moist;\ Very\ firm\ consistence;\ Diffuse\ change\ to\ -$ B31 2.8 - 3.1 m

 $Yellowish\ red\ (5YR4/6-Moist);\ ;\ Medium\ clay;\ Strong\ grade\ of\ structure,\ 5-10\ mm,\ Polyhedral;\ Moderately\ moist;\ Very\ firm\ consistence;\ Diffuse\ change\ to\ -$ B31 3.1 - 3.3 m

B31 Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; 3.3 - 3.65 m

Moderately moist; Very firm consistence;

Morphological Notes

Observation Notes

FINE QZ VISIBLE TO 120CM:PROMINENT VERMIFORM STRUCTURE FROM 120CM

Site Notes

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Laboratory	y Test Results:

Depth	pН	1:5 EC		hangeable Mg	Cations K	E Na	xchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ou .	····g		Cmol (+)/				%
0 - 0.1	5.2D 5.6A		3.28H	1.5	0.18	0.04	0.4F	4.91A	5.4F	0.81
0.1 - 0.2	5.2D 5.4A		0.54H	0.35	0.07	0.03	0.2F	1.91A	1.2F	1.57
0.2 - 0.4	5.5D 5.3A		0.24H	0.19	0.04	0.02	0.2F		0.7F	
0.4 - 0.6	5.2D 5.1A		0.08H	80.0	0.03	0.02	0.3F		0.5F	
0.6 - 0.9	5.2D 5A									
0.9 - 1.2	5.6D 5.2A		0.26H	0.22	0.03	0.02	0.1F	0.88A	0.6F	2.27
1.2 - 1.5	5.8D 5.4A		0.52H	0.09	0.03	0.03	0.2F		0.9F	
1.5 - 1.75	5.6D 5.3A									
1.8 - 2.1	5.1D 4.8A									
2.1 - 2.4	4.9D 4.9A		<0.02H	<0.01	0.03	0.04	0.2F	1.76A	0.3F	2.27
2.4 - 2.75	4.7D 4.9A									
2.8 - 3.1	4.4D 5A		<0.02H	<0.01	0.03	0.04	1.2F	1.7A	1.3F	2.35
3.1 - 3.3	4.5D 5A		0.0011	0.04	0.04	0.04	0.05	4.004	45	0.45
3.3 - 3.65	4.6D 4.9A		<0.02H	<0.01	0.04	0.04	0.9F	1.63A	1F	2.45
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 0.1 - 0.2		2.98D 1.25D						3A 2A		
0.2 - 0.4 0.4 - 0.6		0.53D 0.38D						3A 2A	18	12 67
0.6 - 0.9 0.9 - 1.2		0.28D						2, 3A		
1.2 - 1.5 1.5 - 1.75		0.08D						5 <i>A</i>		
1.8 - 2.1 2.1 - 2.4		<0.05D						<1.4		
2.4 - 2.75 2.8 - 3.1								1 <i>A</i>		
3.1 - 3.3 3.3 - 3.65		0.07D						<1.4		
Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents . 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar						sat	K unsat
m	m g/g - m3/m3 mm/h								n/h	mm/h

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0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.4 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.75 1.8 - 2.1 2.1 - 2.4 2.4 - 2.75 2.8 - 3.1 3.1 - 3.3 3.3 - 3.65

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Laboratory Analyses Completed for this profile

15A2_CEC

15E1_CA

15E1_CA

15E1_K

15E1_MG

15E1_NA

15E1_NA

15E1_NA

15E1_NA

15E1_CA

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

2A1 Air-dry moisture content 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
P10_CF_CS
Clay (%) - Coventry and Fett pipette method
Coarse sand (%) - Coventry and Fett pipette method
P10_CF_S
P10_CF_Z
Silt (%) - Coventry and Fett pipette method
Silt (%) - Coventry and Fett pipette method