вv **Project Name:**

Project Code: ΒV Site ID: **B446** Observation ID: 1

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

Site Information

G.D. Hubble Locality:

Desc. By: Date Desc.: Elevation: 04/05/61 244 metres Sheet No.: 9343 1:100000 Map Ref.: Rainfall: 960 Northing/Long.: 152.34944444444 Runoff: Rapid

Drainage: Rapidly drained Easting/Lat.: -27.272222222222

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: **Substrate Material:** Auger boring, 1 m deep, Unconsolidated R-Jo

material (unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Low hills Morph. Type: No Data Relief: 61 metres Drainage depression Elem. Type: Slope Category: No Data Aspect: No Data Slope: 7.87 %

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Haplic Mesotrophic Red Kandosol **Principal Profile Form:** Gn2.14 Red earth **ASC Confidence: Great Soil Group:**

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus

Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus tessellaris, Petalostigma pubescens

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.13 m	Brown (7.5YR4/2-Dry); ; Loamy coarse sand; Single grain grade of structure; Dry; Loose consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A2	0.13 - 0.3 m	Brown (7.5YR5/3-Dry); ; Coarse sand; Single grain grade of structure; Dry; Loose consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B1	0.3 - 0.53 m	Yellowish red (5YR5/5-Dry); ; Coarse sand; Single grain grade of structure; Dry; Loose consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.9 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B21	0.53 - 0.79 m	Yellowish red (5YR5/6-Dry); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Common, fine (1-2mm) roots; Diffuse change to -
B22	0.79 - 1.12 m	Red (2.5YR4/5-Dry); ; Coarse sandy loam; Massive grade of structure; Dry; Very weak consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6.1 (pH meter); Common, fine (1-2mm) roots; Diffuse change to -
	1.12 - 1.68 m	Red (2.5YR4/6-Dry); ; Coarse sandy loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 5.9 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
	1.68 - 2.44 m	Dark red (2.5YR3/6-Moist); ; Coarse sandy loam; Massive grade of structure; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 5.5 (pH meter); Diffuse change to -
	2.44 - 3.35 m	Dark red (2.5YR3/6-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 5.1 (pH meter); Diffuse change to -
	3.66 - 5.18 m	Dark red (2.5YR3/6-Moist); ; Coarse sandy loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.1 (pH meter); Diffuse change to -

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5.18 - 6.1 m

Dark reddish brown (2.5YR3/4-Moist); ; Coarse sandy loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.8 (pH meter);

Morphological Notes

Observation Notes

RED EARTH LIGHT TEXTURED:2-10% 2-6MM QZ GRIT AND ROUNDED GRAVEL THROUGHOUT PROFILE:

Site Notes

ESK

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Laboratory Test Results:

<u>Laboratory Test Results:</u>													
Depth	рН	1:5 EC	Exc Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	EC	CEC		SP	
m		dS/m				Cmol (+)/kg				%		
0 - 0.13	6.6H	0.01B		0.74	0.23	0.03	1.8D						
0.13 - 0.3	6.8H	0.01B											
0.3 - 0.53	6.9H	0.01B		0.44	0.19	0.07	1.4D						
0.53 - 0.79	6.1H	0.01B											
0.79 - 1.12	6.4H	0.01B											
1.12 - 1.68	5.9H	0.01B											
1.68 - 2.44	5.5H	0.01B											
2.44 - 3.35	5.1H	0.01B											
3.66 - 5.18	5.1H	0.01B											
5.18 - 6.1	5.8H	0.01B											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle Si CS F		alysis Silt		
m	%	%	mg/kg	%	%	%	Mg/m3			%		•	
0 - 0.13		0.75A	4C	0.023F	0.07	77B		4	77C	7	6	8	
0.13 - 0.3		0.29A						6	72C	8	9	9	
0.3 - 0.53		0.13A			0.01			12	76C	7	8	10	
0.53 - 0.79		0.06A	7C		0.01	15B		10	72C	8	6	15	
0.79 - 1.12				0.022F	=			10	72C	8	7	13	
1.12 - 1.68													
1.68 - 2.44											_		
2.44 - 3.35				0.03F				11	58C	14	7	22	
3.66 - 5.18										_			
5.18 - 6.1									71C	8	4	18	
Depth	Depth COLE Gravimetric/Volumetric Wa						tents		K sat	K	unsat		
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar					
m				g/s	g - m3/m3	3			mm/h	m	nm/h		
0 - 0.13													
0.13 - 0.3													
0.3 - 0.53													
0.53 - 0.79													
0.79 - 1.12													
1.12 - 1.68													
1.68 - 2.44													
2.44 - 3.35													
3.66 - 5.18													
5.18 - 6.1													
J. 10 - J. 1													

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Laboratory Analyses Completed for this profile

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15_NR_CA

15_NR_H

15_NR_K Exch. basic cations (K++) - med per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15_NR_NA

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

Water soluble Chloride - Cl(%) - Not recordede 5_NR

Organic carbon - Walkley and Black 6A1 7_NR 9_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9A_NR

P10_GRAV Gravel (%)

P10_NR_C Clay (%) - Not recorded Coarse sand (%) - Not recorded P10_NR_CS Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded