

**Project Name:** CL  
**Project Code:** CL      **Site ID:** B237      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	01/11/54	<b>Elevation:</b>	67 metres
<b>Map Ref.:</b>	Sheet No. : 9347 1:100000	<b>Rainfall:</b>	1143
<b>Northing/Long.:</b>	152.236111111111	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-25.086111111111	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	KLB	<b>Substrate Material:</b>	Auger boring, 2 m deep, No Data

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Peneplain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Sodic Magnesic Yellow Dermosol		<b>Principal Profile Form:</b>	Gn3.84
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Lateritic podzolic soil

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, , Mid-dense. \*Species includes - None recorded  
Mid Strata - Shrub, 0.26-0.5m, . \*Species includes - Acacia cunninghamii  
Tall Strata - Tree, 6.01-12m, Closed or dense. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.08 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Weak grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Moist; Weak consistence; Field pH 5.6 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21g	0.08 - 0.28 m	Light grey (10YR7/2-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.9 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A22	0.3 - 0.61 m	Pale yellow (2.5Y7/3-Moist); , 10YR66, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Fine sandy loam; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B1	0.64 - 0.76 m	Yellowish brown (10YR5/7-Moist); , 10YR63, 20-50% , 5-15mm, Prominent; , 2.5YR46, 20-50% , 5-15mm, Prominent; Fine sandy medium clay (Light); Weak grade of structure, Angular blocky; Moist; Weak consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.1 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B21	0.76 - 1.07 m	Brownish yellow (10YR6/8-Moist); , 2.5Y73, 20-50% , 5-15mm, Distinct; , 2.5YR46, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Gradual change to -
B22	1.07 - 1.68 m	Brownish yellow (10YR6/8-Moist); , 2.5YR58, 20-50% , 5-15mm, Distinct; , 2.5Y64, 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

CHILDERS

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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 - 0.08	5.6H	0.011B								
0.08 - 0.28	5.9H	0.009B								
0.3 - 0.61	6H	0.007B								
0.64 - 0.76	6.1H	0.009B								
0.76 - 1.07	6.4H	0.012B	0.1K	3.6	0.04	0.49	2.8D			
1.07 - 1.68	6.5H	0.018B								

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded