Project Name: CL

Project Code: CL Site ID: B184 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

 Date Desc.:
 09/12/52
 Elevation:
 18 metres

 Map Ref.:
 Sheet No.:
 9544
 1:100000
 Rainfall:
 1524

Northing/Long.: 153.018888888889 Runoff: Moderately rapid Easting/Lat.: -26.847222222222 Drainage: Imperfectly drained

Geology

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

Geol. Ref.: Qa Substrate Material: Auger boring, 1.3 m deep,Unconsolidated

material (unidentified)

**Land Form** 

 Rel/Slope Class:
 No Data
 Pattern Type:
 Rises

 Morph. Type:
 Lower-slope
 Relief:
 8 metres

 Elem. Type:
 Hillslope
 Slope Category:
 No Data

 Slope:
 0 %
 Aspect:
 No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AMesotrophic Sodosolic Redoxic HydrosolPrincipal Profile Form:Dg4.41

ASC Confidence: Great Soil Group: Gleyed podzolic

Analytical data are incomplete but reasonable confidence. soil

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

<u>Vegetation:</u> Low Strata - Tussock grass, , . \*Species includes - None recorded

Mid Strata - Shrub, , . \*Species includes - Banksia robur
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A1	0 - 0.13 m	Dark grey (10YR4/1-Moist); Grey (10YR6/1-Dry); ; Sand; Weak grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; Field pH 5.4 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
A21g	0.13 - 0.23 m	White (2.5Y8/2-Moist); , 10YR61; Sand; Single grain grade of structure; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 5.4 (pH meter); Gradual change to -
A22g	0.23 - 0.41 m	White (2.5Y8/2-Moist); , 10YR78; Sand; Single grain grade of structure; Moist; Very weak consistence; Field pH 5.8 (pH meter); Gradual change to -
A3g	0.41 - 0.53 m	Light grey (5Y7/1-Moist); , 10YR66; Clayey sand; Massive grade of structure; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.8 (pH meter); Diffuse change
Bg	0.56 - 0.74 m	White (10YR8/1-Moist); , 10R46; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Field pH 5.6 (pH meter); Diffuse change to -
Bg	0.74 - 1.27 m	White (10YR8/1-Moist); , 10R46; Sandy medium clay; Weak grade of structure, 20-50 mm, Prismatic; Wet; Very plastic; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 5.4 (pH meter); Diffuse change to -

D 1.27 - 1.78 m Light grey (10YR7/1-Moist); , 5Y81; , 10YR78; Sandy medium clay; Moderate grade of

structure, 50-100 mm, Prismatic; Wet; Moderately plastic; 0-2%, medium gravelly, 6-20mm,

subrounded, Quartz, coarse fragments; Field pH 5.3 (pH meter);

### **Morphological Notes**

#### **Observation Notes**

41-53CM NUMEROUS OLD ROOT CHANNELS WITH RUSTY SHEATHS:ALLUVIUM OVER TRUNCATED CLAY BELOW 1.27M:

## **Site Notes**

**BEERWAH** 

Project Name: CL
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# **Laboratory Test Results:**

<u> </u>												
Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	K	Na Cmal (1)	Acidity				%	,
m		us/III				Cmol (+)	/kg				70	0
0 - 0.13	5.5H	0.008B	0.1K	0.1	0.04	0.04	2.82D			3.1E		
0.13 - 0.23	5.4H	0.006B	-	-			-					
0.23 - 0.41	5.8H	0.004B	0.05K	0.08	0.04	0.02	1.32D			1.5E		
0.41 - 0.53	5.8H	0.007B										
0.56 - 0.74	5.6H	0.014B										
0.74 - 1.27	5.4H	0.013B	0.1K	2.1	0.1	0.43	6.25D		8	3.98E		
1.27 - 1.78	5.3H	0.014B										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size Analysis		
•		Č	Р	Р	N	K	Density	G۷	CS	FS	Silt C	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.13		0.62E	3C	0.004F	0.03	36B		0	55C	37	4	2
0.13 - 0.23								0	46C	45	6	3
0.23 - 0.41				0.004F	0.01	14B		0	43C	46	7	4
0.41 - 0.53								2	39C	40	7	14
0.56 - 0.74				0.0045				1	29C	27	7	38
0.74 - 1.27				0.004F	0.00	)9B		0	31C	28	6	35
1.27 - 1.78								0	37C	30	5	27
Depth COLE Gravimetric/Volumetric Water Contents K sai									t	K unsat		
Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar												
m				g/g	g - m3/m3	3			mm/h	1	mm/h	

0 - 0.13 0.13 - 0.23 0.23 - 0.41 0.41 - 0.53 0.56 - 0.74 0.74 - 1.27 1.27 - 1.78

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

15\_NR Sum of Ex. cations + Ex. acidity - Not recorded

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 Exch. basic cations (Mg++) - meq 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

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 recordede

6Z Organic carbon (%) - Not recorded
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