Project Name: CL
Project Code: CL **Site ID:** B182 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	**Locality:**	
Date Desc.:	10/12/52	**Elevation:**	15 metres
Map Ref.:	Sheet No. : 9344 1:100000	**Rainfall:**	1397
Northing/Long.:	152.988611111111	**Runoff:**	Slow
Easting/Lat.:	-26.9111111111111	**Drainage:**	Very poorly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Qa	**Substrate Material:**	Soil pit, 1.1 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Rises
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Melacic Dermosolic Redoxic Hydrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Gn3.91
Great Soil Group: Humic gley

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

Vegetation:
Tall Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11g	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Clay loam (Fibric); Strong grade of structure, 5-10 mm, Granular; Moist; Weak consistence; Field pH 5.3 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
A12g	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Light clay (Fibric); Strong grade of structure, 10-20 mm, Subangular blocky; Moderately moist; Weak consistence; Field pH 5.4 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
A13g	0.2 - 0.33 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Dry); , 10YR71; Medium heavy clay; Strong grade of structure, 100-200 mm, Prismatic; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; Field pH 5.6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
Bg	0.33 - 0.46 m	Light grey (10YR7/2-Moist); White (10YR8/1-Dry); , 10YR66; Silty medium clay (Light); Strong grade of structure, 100-200 mm, Prismatic; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; Field pH 5.8 (pH meter); Gradual change to -
Bg	0.46 - 0.66 m	White (10YR8/1-Dry); , 10YR78; Silty clay loam; Weak grade of structure, 100-200 mm, Prismatic; Dry; Firm consistence; Few (2 - 10 %), Ferruginous, , Nodules; Field pH 5.6 (pH meter); Diffuse change to -
Bg	0.66 - 0.97 m	White (10YR8/1-Dry); , 2.5Y84; , 10YR76; Fine sandy clay loam; Massive grade of structure; Moist; Very weak consistence; Field pH 5.8 (pH meter); Diffuse change to -
D	1.02 - 1.22 m	White (2.5Y8/0-Dry); , 10YR68; , 10R48; Medium clay; Massive grade of structure; Moist; Very plastic; Field pH 5.6 (pH meter);

Morphological Notes

Observation Notes

0-46CM RUSTY ROOT MARKINGS : FIG.41.1 H.A.S. P387

Site Notes

BEERBURRUM

Project Name: CL
Project Code: CL **Site ID:** B182 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.3H	0.026B	5.4K	3	0.52	0.41	44.8D		54.2E	
0.1 - 0.2	5.4H	0.016B								
0.2 - 0.33	5.6H	0.011B	3.7K	3.8	0.31	0.49	25D		33.3E	
0.33 - 0.46	5.8H	0.007B	1.8K	2.7	0.14	0.26	11D		15.9E	
0.46 - 0.66	5.6H	0.008B	1.1K	1.4	0.1	0.15	7D		9.8E	
0.66 - 0.97	5.8H	0.007B								
1.02 - 1.22	5.6H	0.012B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		8.05E	6C	0.045F	0.603B			0	1C	7	21	52
0.1 - 0.2		4.63E			0.373B			0	1C	16	26	50
0.2 - 0.33		2.63E		0.017F	0.208B			0	<1C	14	26	56
0.33 - 0.46		0.81E			0.059B			0	2C	23	33	40
0.46 - 0.66				0.009F	0.027B			0	3C	32	36	29
0.66 - 0.97								0	5C	37	38	19
1.02 - 1.22								0	3C	28	29	41

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.33										
0.33 - 0.46										
0.46 - 0.66										
0.66 - 0.97										
1.02 - 1.22										

Project Name: CL
Project Code: CL **Site ID:** B182 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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
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 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