Project Name: CL
Project Code: CL **Site ID:** B179 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 09/02/52
Map Ref.: Sheet No. : 9143 1:100000
Northing/Long.: 151.986111111111
Easting/Lat.: -27.1802777777778
Locality:
Elevation: 24 metres
Rainfall: 1143
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: R-Jo
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Porous, Sandstone

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Crest
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Rises
Relief: 40 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Magnesic Yellow Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy5.41
Great Soil Group: Lateritic podzolic soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Imperata cylindrica, Pteridium esculentum

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Grey (10YR5/1-Moist); ; Loamy sand; Weak grade of structure, 2-5 mm, Granular; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A2	0.1 - 0.28 m	Light olive grey (5Y6/2-Moist); ; Clayey sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.1 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
A3	0.28 - 0.61 m	Pale yellow (2.5Y7/4-Moist); , 10YR61; Clayey sand; Massive grade of structure; Moderately moist; Very weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.2 (pH meter); Gradual change to -
B1	0.61 - 0.84 m	Brownish yellow (10YR6/6-Moist); , 2.5YR48; Sandy clay loam; Massive grade of structure; Moist; Very weak consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.9 (pH meter); Gradual change to -
B21	0.84 - 1.37 m	Brownish yellow (10YR6/6-Moist); , 5YR56; Medium clay; Moderate grade of structure, Angular blocky; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.8 (pH meter); Diffuse change to -
B22	1.37 - 1.9 m	Reddish yellow (7.5YR7/8-Moist); , 10R36; , 5Y81; Heavy clay; Moderate grade of structure, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.9 (pH meter); Diffuse change to -
B23	2.01 - 2.46 m	White (5Y8/1-Moist); , 10R46; , 10YR68; Heavy clay; Moderate grade of structure, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.7 (pH meter);

Morphological Notes

Observation Notes

UPPER 4CM POSSIBLY OLDER ALLUVIUM ON TRUNCATED PROFILE:ALTERED LATERITISED SANDSTONE AT 5.6M

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Site Notes
DECEPTION BAY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6H	0.012B	1.6K	0.6	0.07	0.05	5.33D		7.65E	
0.1 - 0.28	6.1H	0.007B								
0.28 - 0.61	6.2H	0.007B								
0.61 - 0.84	5.9H	0.007B	0.3K	1.1	0.12	0.07	2.57D		4.16E	
0.84 - 1.37	5.8H	0.011B	0.3K	3.3	0.04	0.22	6.7D		10.6E	
1.37 - 1.9	5.9H	0.006B								
2.01 - 2.46	5.7H	0.006B	0.3K	3.6	0.04	0.35	4.65D		8.8E	

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		1.41E	6C	0.006F	0.07B			3	53C	31	8	8
0.1 - 0.28				0.003F	0.015B			2	51C	34	9	6
0.28 - 0.61					0.016B			0	48C	33	9	10
0.61 - 0.84					0.016B			0	42C	29	9	19
0.84 - 1.37				0.007F	0.018B			46	22C	15	11	54
1.37 - 1.9												
2.01 - 2.46								0	19C	14	15	54

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.1 - 0.28									
0.28 - 0.61									
0.61 - 0.84									
0.84 - 1.37									
1.37 - 1.9									
2.01 - 2.46									

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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
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
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