Project Name: BL
Project Code: BL **Site ID:** B327 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/10/57
Map Ref.: Sheet No. : 8942 1:100000
Northing/Long.: 150.030555555556
Easting/Lat.: -27.5472222222222
Locality:
Elevation: 289 metres
Rainfall: 0
Runoff: No runoff
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Qs
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Plain
Relief: 24 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Epipedal Grey Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.24
Great Soil Group: Grey clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Low Strata - Tussock grass, , . *Species includes - None recorded
Mid Strata - Shrub, , . *Species includes - Geijera parviflora, Eremophila mitchellii
Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Casuarina cristata, Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.04 m	Dark grey (10YR4/1-Dry); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; Field pH 7.1 (pH meter); Clear change to -
B2	0.04 - 0.19 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Field pH 7.5 (pH meter); Gradual change to -
B2	0.23 - 0.61 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); Gradual change to -
B2	0.61 - 1.07 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.2 (pH meter); Gradual change to -
B2	1.07 - 1.37 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Very firm consistence; Field pH 7.3 (pH meter); Gradual change to -
B2	1.52 - 2.13 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Very firm consistence; Field pH 6 (pH meter);

Morphological Notes

Observation Notes

0-4CM GRANULAR GRADING TO STRONG 5-10MM BLOCKY STRUCTURE:

Site Notes

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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 - 0.04	7.1H	0.09C								
0.04 - 0.19	7.5H	0.05C	24.7K	6.6	2.1	2.3		38J		6.05
0.23 - 0.61	8.8H	0.21C	14.7K	8.2	1.1	12.3		32.9J		37.39
0.61 - 1.07	8.2H	0.6C								
1.07 - 1.37	7.3H	0.64C	8.2K	11.8	1.1	9.2		30.6J		30.07
1.52 - 2.13	6H	0.64C								

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 - 0.04		3.32E	106C	0.04F	0.34B				3C	30	15	42
0.04 - 0.19		3.06E		0.038F	0.18B				3C	27	15	50
0.23 - 0.61	0.22C	0.66E							3C	30	15	48
0.61 - 1.07		0.34E										
1.07 - 1.37		0.28E							3C	33	15	51
1.52 - 2.13									4C	36	13	49

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 - 0.04									
0.04 - 0.19									
0.23 - 0.61									
0.61 - 1.07									
1.07 - 1.37									
1.52 - 2.13									

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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_CEC	CEC - 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
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
MIN_EC	Exchange Capacity - Minerology
MIN_NR_K2O	Kaolin minerals
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
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mi	Mica - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction