

Project Name: Regional
Project Code: REG **Site ID:** T23 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	On crest of low gilgai mound :
Date Desc.:	09/09/64	Elevation:	No Data
Map Ref.:	Sheet No. : 8258 1:100000	Rainfall:	0
Northing/Long.:	146.833333333333	Runoff:	Slow
Easting/Lat.:	-19.616666666667	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	No Data

Land Form

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

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol	Principal Profile Form:	Ug5.29

ASC Confidence:

All necessary analytical data are available.

Great Soil Group:

Grey clay

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

Vegetation:

Low Strata - Tussock grass, 1.01-3m, Mid-dense. *Species includes - Heteropogon contortus
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Grevillea species
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus alba, Eucalyptus papuana

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, rounded, Gravel

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (2.5Y4/2-Moist); Dark greyish brown (2.5Y4/2-Dry); ; Light medium clay (Heavy); Moderate grade of structure, 10-20 mm, Granular; Dry; Very strong consistence; 0-2%, stony, 200-600mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, , Concretions; Clear change to -
B21	0.1 - 0.36 m	Dark greyish brown (2.5Y4/2-Moist); Dark greyish brown (2.5Y4/2-Dry); ; Heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions;
B22	0.36 - 0.61 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions;
B22	0.61 - 0.91 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Gradual change to -
B23	0.91 - 1.22 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; Moderate grade of structure; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Gradual change to -
B24	1.22 - 1.52 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Gradual change to -
B24	1.52 - 1.83 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Gradual change to -

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B24 1.83 - 2.29 m Yellowish brown (10YR5/4-Moist); ; Heavy clay; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), ; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Gradual change to -

2.29 - 2.59 m Grey (2.5Y5/1-Moist); ; Heavy clay; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Gradual change to -

Morphological Notes

Observation Notes

Site Notes

LANSDOWN

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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				Comol (+)/kg				%
0 - 0.1	7.1A	0.089A	18E	4.8	0.37	0.65	2.4F	26C	26.2F	2.50
0.1 - 0.36	8.6A	0.148A								
0.36 - 0.61	8.9A	0.327A	11.2E	6.6	0.08	3.3				
0.61 - 0.91	8.7A	0.803A								
0.91 - 1.22	8.7A	1.1A	9E	8.2	0.15	6.5				
1.22 - 1.52	8.9A	0.952A								
1.52 - 1.83	8.9A	0.892A								
1.83 - 2.29	8.6A	0.863A								
2.29 - 2.59	8.1A	0.744A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0.7A	1D	9B	0.018A	0.1A			2	24D	32	15	30
0.1 - 0.36			6B									
0.36 - 0.61	3A			0.008A				6	9D	27	17	47
0.61 - 0.91												
0.91 - 1.22	2.9A											
1.22 - 1.52												
1.52 - 1.83												
1.83 - 2.29												
2.29 - 2.59				0.012A								

[illegible]

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Laboratory Analyses Completed for this profile

15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
19A1	Carbonates - rapid titration
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance