

Project Name: Regional
Project Code: REG **Site ID:** T26 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Woodstock paddock approx. 91M south of T25:
Date Desc.:	09/09/64	Elevation:	No Data
Map Ref.:	Sheet No. : 8258 1:100000	Rainfall:	870
Northing/Long.:	146.825	Runoff:	No runoff
Easting/Lat.:	-19.6291666666667	Drainage:	No Data

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Ridge	Relief:	2 metres
Elem. Type:	Prior stream	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Eutrophic Red Chromosol		Principal Profile Form:	Dr3.42
ASC Confidence:		Great Soil Group:	Red podzolic soil

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Planchonia careya
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); Light brownish grey (10YR6/2-Dry); , 0-0% ; , 0-0% ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Very firm consistence; Clear change to -
A2	0.06 - 0.23 m	Yellowish brown (10YR5/4-Moist); Very pale brown (10YR7/4-Dry); , 0-0% ; , 0-0% ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Strong consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Gradual change to -
A3	0.23 - 0.46 m	Yellowish brown (10YR5/5-Moist); Yellow (10YR7/5-Dry); , 0-0% ; , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Strong consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Clear change to -
B21	0.46 - 0.66 m	Red (2.5YR4/5-Moist); Red (2.5YR4/5-Dry); , 7.5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very strong consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Gradual change to -
B22	0.66 - 0.86 m	Dark red (2.5YR3/6-Moist); , 5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Field pH 6.5 (pH meter, 0.86);
	0.86 - 0.96 m	;

Morphological Notes

Heavy gravel layer(<101MM):with mottled red clay matrix:

Observation Notes

BLEACHED A2 AND A3 HORIZONS:

Site Notes

LANDSDOWN

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
						Cmol (+)/kg				
0 - 0.06	6.1A	<0.03A	2.4E	0.8	0.21	0.15	3.6F	7C	7.2F	2.14
0.06 - 0.23	5.8A	<0.03A	1.5E	0.4	0.14	0.1	0.9F	3C	3F	3.33
0.23 - 0.46	6A	<0.03A								
0.46 - 0.66	6.1A	<0.03A	4.4E	1.5	0.26	0.15	2.5F	9C	8.8F	1.67
0.66 - 0.86	6.4A	0.029A								

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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
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