

Project Name: Regional
Project Code: REG **Site ID:** T30 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Homestead paddock 4 chain's east of south east corner:adjacent to lane:
Date Desc.:	10/09/64	Elevation:	No Data
Map Ref.:	Sheet No. : 8258 1:100000	Rainfall:	870
Northing/Long.:	146.841666666667	Runoff:	No Data
Easting/Lat.:	-19.6583333333333	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:	Flat	Relief:	No Data
Elem. Type:	Backplain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Hypernatric Brown Sodosol		Principal Profile Form:	Dy2.43
ASC Confidence:		Great Soil Group:	Solodized solonetz
All necessary analytical data are available.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Forb, 0.26-0.5m, Sparse. *Species includes - Stylosanthes humilis
Mid Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.04 m	Greyish brown (10YR5/2-Moist); Light brownish grey (10YR6/2-Dry); ; Sandy loam; Massive grade of structure; Dry; Strong consistence; Gradual change to -
A2	0.04 - 0.2 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR8/3-Dry); ; Sandy loam; Massive grade of structure; Dry; Strong consistence; Abrupt change to -
B2	0.2 - 0.33 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Weak grade of structure, 100-200 mm, Columnar; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Rigid consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules;
B22	0.33 - 0.61 m	Yellowish brown (10YR5/5-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Rigid consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Gradual change to -
Bk	0.61 - 0.89 m	Brownish yellow (10YR6/5-Moist); , 10YR52, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Rigid consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Gradual change to -
BC	0.89 - 1.22 m	Light brownish grey (10YR6/2-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Massive grade of structure, Angular blocky; Dry; Rigid consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;
BC	1.22 - 1.42 m	Light brownish grey (10YR6/2-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Massive grade of structure, Angular blocky; Dry; Rigid consistence; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Gradual change to -
C	1.42 - 1.68 m	Yellowish brown (10YR5/8-Moist); , 10YR52; Sandy medium clay; , Polyhedral; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;

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C 1.68 - 1.98 m Pale brown (10YR6/3-Moist); , 5YR56; Sandy medium clay; Moderate grade of structure, Polyhedral; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;

Morphological Notes

Observation Notes

A2 SPORADIC BLEACH:B21 COL'S 5CM THICK+<5CM DOME:MN.SEGREG.>61CM:

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 Cmol (+)/kg	Acidity		%	
0 - 0.04	5.4A	0.059A	1.6E	0.8	0.23	0.2	4.7F	8C	7.5F	2.50
0.04 - 0.2	5.8A	0.029A	0.8E	0.5	0.03	0.15	1.9F	3C	3.4F	5.00
0.2 - 0.33	7.9A	0.654A	2.4E	6	0.12	7.7	2.6F	19C	18.8F	40.53
0.33 - 0.61	8.6A	1.34A								
0.61 - 0.89	8.7A	1.34A	1.6E	4.6	0.08	4.5				
0.89 - 1.22	8.6A	0.922A								
1.22 - 1.42	9.3A	0.744A								
1.42 - 1.68	8.7A	0.654A								
1.68 - 1.98	8.9A	0.744A								

[illegible][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