

Project Name: Regional
Project Code: REG **Site ID:** T31 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell **Locality:** Sandalwood paddock 10 chain's east of homestead: on boundary adjacent laneway:
Date Desc.: 10/09/64 **Elevation:** No Data
Map Ref.: Sheet No. : 8258 1:100000 **Rainfall:** 870
Northing/Long.: 146.845833333333 **Runoff:** Slow
Easting/Lat.: -19.658333333333 **Drainage:** No Data

Geology

Exposure Type: 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, Isolated plants. *Species includes - None recorded
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1/A2 0 - 0.03 m Dark greyish brown (10YR4/2-Moist); Pale brown (10YR6/3-Dry); , 0-0% ; , 0-0% ; Sandy loam (Heavy); Weak grade of structure, Platy; Dry; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Abrupt change to -

B21 0.03 - 0.15 m Brown (10YR4/3-Moist); Brown (10YR5/3-Dry); , 10YR42, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Rigid consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments;

B22 0.15 - 0.38 m Brown (10YR5/3-Moist); , 0-0% ; , 0-0% ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Gradual change to -

Bk 0.38 - 0.61 m Brown (10YR5/3-Moist); , 0-0% ; , 0-0% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Gradual change to -

0.61 - 0.91 m Pale brown (10YR6/3-Moist); , 5YR54; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;

0.91 - 1.12 m Pale brown (10YR6/3-Moist); , 5YR54; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;

Morphological Notes

Observation Notes

1-3CM BLEACHED A2 10YR83 (D): NOT SAMPLED SEPERATELY:

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 - 0.03	6.3A	0.36A	3B	2.2	0.28	0.2	3.3F	9C	9F	2.22
0.03 - 0.15	6.7A	0.66A	2.6B	3	0.09	3.8	2.9F	12C	12.4F	31.67
0.15 - 0.38	8A	1.82A	2.8B	4	0.06	5.9	0.7F	14C	13.5F	42.14
0.38 - 0.61	8.6A	2.51A								
0.61 - 0.91	9.2A	1.93A	2.2B	3.8	0.15	8				
0.91 - 1.12	9.3A	1.93A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt Clay
0 - 0.03		1.5D	10B	0.018A	0.09A			8	22D	44	21 13
0.03 - 0.15		0.4D	4B	0.011A				3	19D	36	23 22
0.15 - 0.38	0.3A							0	15D	35	21 30
0.38 - 0.61											
0.61 - 0.91	4A							2	15D	34	19 32
0.91 - 1.12				0.009A							

[illegible]

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, 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 H2SO4 (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