

Project Name: Regional
Project Code: REG **Site ID:** T340 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.J. Coventry	Locality:	
Date Desc.:	03/10/73	Elevation:	No Data
Map Ref.:	Sheet No. : 7956 1:100000	Rainfall:	600
Northing/Long.:	145.193333333333	Runoff:	No Data
Easting/Lat.:	-20.727777777778	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

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

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Magnesic Grey Kandosol		Principal Profile Form:	Gn2.64
ASC Confidence:		Great Soil Group:	Yellow earth

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, Sparse. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus similis, Grevillea pteridifolia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Brown (10YR5/3-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Many, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Brown (10YR5/3-Moist); Yellowish brown (10YR5/4-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Common, fine (1-2mm) roots; Gradual change to -
A3	0.2 - 0.3 m	Yellowish brown (10YR5/5-Moist); Brownish yellow (10YR6/5-Dry); ; Sandy loam (Light); Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots; Gradual change to -
B1	0.3 - 0.6 m	Yellowish brown (10YR5/6-Moist); Brownish yellow (10YR6/6-Dry); , 7.5YR58, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Dry; Weak consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B1	0.6 - 0.7 m	Yellowish brown (10YR5/6-Moist); Brownish yellow (10YR6/6-Dry); , 7.5YR58, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Dry; Weak consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B2	0.7 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 7.5YR58, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; Strong consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	0.9 - 1.2 m	Greyish brown (10YR5/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Prominent; , 2.5YR36, 2-10% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.2 - 1.5 m	Greyish brown (10YR5/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Prominent; , 2.5YR36, 2-10% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

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B2	1.5 - 1.8 m	Greyish brown (10YR5/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Prominent; , 2.5YR36, 2-10% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
BC	1.8 - 2.1 m	Grey (10YR6/1-Moist); , 5YR58, 10-20% , 5-15mm, Prominent; , 2.5YR36, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
BC	2.1 - 2.4 m	Grey (10YR6/1-Moist); , 5YR58, 10-20% , 5-15mm, Prominent; , 2.5YR36, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
BC	2.4 - 2.7 m	Grey (10YR6/1-Moist); , 5YR58, 10-20% , 5-15mm, Prominent; , 2.5YR36, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
C1	2.7 - 3 m	Grey (10YR6/1-Moist); , 7.5YR58, 10-20% , 5-15mm, Prominent; , 5YR58, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments;
C1	3 - 3.3 m	Grey (10YR6/1-Moist); , 7.5YR58, 10-20% , 5-15mm, Prominent; , 5YR58, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments;

Morphological Notes

Observation Notes

SOME BIOTURBATION IN A1/A3 HORIZONS .

Site Notes

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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				Cmol	(+)/kg			%
0 - 0.1	6.5A	0.028A	0.67H	0.96	0.11	0.08	0.29F	2.58A	2.1F	3.10
0.1 - 0.2		0.025A								
0.2 - 0.3	6.5A	0.025A	0.18H	1.26	0.05	0.21	0.59F	2.58A	2.3F	8.14
0.3 - 0.6		0.023A								
0.6 - 0.7	6.4A	0.02A								
0.7 - 0.9		0.02A	0.06H	2.12	0.05	0.28	0.43F	3.83A	2.9F	7.31
0.9 - 1.2		0.021A								
1.2 - 1.5	6.4A	0.018A	<0.02H	2.28	0.04	0.3	0.24F	3.59A	2.9F	8.36
1.5 - 1.8	6.3A	0.017A								
1.8 - 2.1	6.3A	0.017A								
2.1 - 2.4	6.3A	0.018A								
2.4 - 2.7	6.1A	0.018A								
2.7 - 3	5.8A	0.016A								
3 - 3.3	5.7A	0.017A								

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS	FS %	Silt	Clay
0 - 0.1		0.64D	3B	0.008A	0.036A	0.07A		3	35A	43	7	16
0.1 - 0.2		0.54D	1B		0.026A			2	33A	40	6	21
0.2 - 0.3		0.22D	2B	0.006A	0.019A	0.09A		4	30A	37	8	24
0.3 - 0.6								6	29A	34	6	31
0.6 - 0.7								15	29A	29	7	35
0.7 - 0.9				0.01A		0.12A		57	32A	28	5	35
0.9 - 1.2								52	35A	29	6	30
1.2 - 1.5				0.037A		0.13A		32	42A	22	6	31
1.5 - 1.8								27	42A	18	5	35
1.8 - 2.1								35	34A	20	6	41
2.1 - 2.4								36	35A	18	5	42
2.4 - 2.7								40	33A	19	6	42
2.7 - 3								6	41A	25	6	28
3 - 3.3								3	44A	23	6	27

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
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_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)