

Project Name: Regional
Project Code: REG **Site ID:** T362 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	24/11/83	Elevation:	30 metres
Map Ref.:	Sheet No. : 8061 1:100000	Rainfall:	2250
Northing/Long.:	145.920833333333	Runoff:	Slow
Easting/Lat.:	-18.1458333333333	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Rises
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic Magnesic Yellow Kandosol		Principal Profile Form:	Gn2.21
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:

Mid Strata - Tree, 6.01-12m, Isolated clumps. *Species includes - Casuarina littoralis

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Black (10YR2/1-Moist); Black (10YR2/1-Dry); Mottles, 0-0% ; Mottles, 0-0% ; Sandy clay loam (Fibric); Massive grade of structure; Earthy fabric; Very weak consistence;
A12	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); Mottles, 0-0% ; Mottles, 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Very weak consistence; Diffuse, Broken change to -
A12	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); Mottles, 0-0% ; Mottles, 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Very weak consistence; Diffuse, Broken change to -
A3	0.3 - 0.45 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Faint; Mottles, 10-20% , 5-15mm, Faint; Sandy clay loam; Massive grade of structure; Earthy fabric; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Clear change to -
B1	0.45 - 0.55 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Faint; Mottles, 10-20% , 5-15mm, Faint; Clay loam, coarse sandy; Massive grade of structure; Earthy fabric; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Gradual, Irregular change to -
B21	0.55 - 0.6 m	Yellow (10YR7/8-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sandy medium clay; Massive grade of structure; Earthy fabric; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;
B21	0.6 - 0.9 m	Yellow (10YR7/8-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sandy medium clay; Massive grade of structure; Earthy fabric; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;
B21	0.9 - 1 m	Yellow (10YR7/8-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sandy medium clay; Massive grade of structure; Earthy fabric; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Diffuse, Broken change to -

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B22	1 - 1.2 m	Yellow (10YR7/8-Moist); Mottles, 2.5YR48, 10-20% , 5-15mm, Prominent; Mottles, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;
B22	1.2 - 1.4 m	Yellow (10YR7/8-Moist); Mottles, 2.5YR48, 10-20% , 5-15mm, Prominent; Mottles, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Diffuse, Broken change to -
BC	1.4 - 1.5 m	Red (2.5YR4/8-Moist); Mottles, 10YR78, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;
BC	1.5 - 1.8 m	Red (2.5YR4/8-Moist); Mottles, 10YR78, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;
BC	1.8 - 2 m	Red (2.5YR4/8-Moist); Mottles, 10YR78, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

Laboratory Test Results:

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		5.45C	7B	0.02A	0.28A	0.15A		3	56A	12	6	26
0.1 - 0.2			4B					6	47A	17	6	30
0.2 - 0.3		2.88C	3B	0.012A	0.12A	0.06A		8	46A	16	5	33
0.3 - 0.45			2B					11	48A	15	5	32
0.45 - 0.55			2B					15	46A	16	4	34
0.55 - 0.6			2B					15	43A	16	4	37
0.6 - 0.9		0.24C	2B	0.01A		0.06A		15	47A	14	2	37
0.9 - 1								20	38A	13	3	46
1 - 1.2		0.11C						24	40A	12	3	45
1.2 - 1.4								24	43A	9	3	45
1.4 - 1.5								21	40A	8	2	50
1.5 - 1.8		0.1C	4B	0.015A		0.05A		19	36A	8	2	55
1.8 - 2								22	32A	8	3	57

[illegible]

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1.5 - 1.8
1.8 - 2

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
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)
9H1	Phosphate retention
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 (%)