

Project Name: Regional
Project Code: REG **Site ID:** T379 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	24/11/83	Elevation:	20 metres
Map Ref.:	Sheet No. : 8061 1:100000	Rainfall:	2250
Northing/Long.:	145.902777777778	Runoff:	Slow
Easting/Lat.:	-18.219444444444	Drainage:	Rapidly 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:	Level plain <9m <1%	Pattern Type:	Anastomatic plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Prior stream	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Mesotrophic Brown Kandosol		Principal Profile Form:	Gn2.81
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - , , . *Species includes - Eucalyptus tessellaris, Eucalyptus tereticornis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Silty loam; Strong grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Moderately moist; Weak consistence; Clear, Smooth change to -
A3	0.1 - 0.2 m	Dark brown (10YR3/3-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Silty clay loam (Light); Moderate grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Moderately moist; Weak consistence; Gradual, Wavy change to -
AB	0.2 - 0.3 m	Brown (10YR4/3-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Faint; Mottles, 10-20% , 5-15mm, Faint; Fine sandy medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Diffuse, Wavy change to -
B2	0.3 - 0.6 m	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Distinct; Mottles, 20-50% , 15-30mm, Distinct; Sandy medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence;
B2	0.6 - 0.75 m	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Distinct; Mottles, 20-50% , 15-30mm, Distinct; Sandy medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Diffuse, Wavy change to -
B3	0.75 - 0.9 m	Yellowish brown (10YR5/4-Moist); Mottles, 10YR68, 10-20% , 15-30mm, Distinct; Mottles, 10-20% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence;
B3	0.9 - 0.95 m	Yellowish brown (10YR5/4-Moist); Mottles, 10YR68, 10-20% , 15-30mm, Distinct; Mottles, 10-20% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Clear, Wavy change to -
D1	0.95 - 1 m	Brownish yellow (10YR6/6-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Clear, Wavy change to -
D2	1 - 1.2 m	Brownish yellow (10YR6/7-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Fine sandy loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Clear, Wavy change to -

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D3	1.2 - 1.5 m	Brownish yellow (10YR6/6-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Clear, Wavy change to -
D4	1.5 - 1.8 m	Yellow (10YR7/5-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;
D4	1.8 - 1.9 m	Yellow (10YR7/5-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Clear, Wavy change to -
D5	1.9 - 2.1 m	Brown (7.5YR5/4-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence;

Morphological Notes

Observation Notes

Site Notes

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[illegible]

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1.2 - 1.5
1.5 - 1.8
1.8 - 1.9
1.9 - 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
5A2	Chloride - 1:5 soil/water extract, automated colour
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 (%)