

Project Name: Regional
Project Code: REG **Site ID:** T433 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	1KM to west of Bruce Highway 2KM south of Euramo:
Date Desc.:	23/09/85	Elevation:	No Data
Map Ref.:	Sheet No. : 8061 1:100000	Rainfall:	3800
Northing/Long.:	145.923611111111	Runoff:	Very slow
Easting/Lat.:	-18.016666666667	Drainage:	Very poorly 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:	Alluvial plain
Morph. Type:	Closed Depression	Relief:	No Data
Elem. Type:	Swamp	Slope Category:	Level
Slope:	<1 %	Aspect:	No Data

Surface Soil Condition (dry): Other, Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Humose Dermosolic Redoxic Hydrosol		Principal Profile Form:	Dy5.11
ASC Confidence:		Great Soil Group:	Humic gley

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Melaleuca species, Trigonella suavissima, Nauclea

Surface Coarse Fragments:

Profile Morphology

A1h	0 - 0.1 m	Black (10YR2/1-Moist); Black (10YR2/1-Dry); ; Loam (Sapric); Moderate grade of structure, 5-10 mm, Cast; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Common, fine (1-2mm) roots;
	0.1 - 0.2 m	Black (10YR2/1-Moist); Black (10YR2/1-Dry); ; Loam (Sapric); Weak grade of structure, 5-10 mm, Cast; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very weak consistence; Common, fine (1-2mm) roots;
	0.2 - 0.3 m	Black (10YR2/1-Moist); Black (10YR2/1-Dry); ; Loam (Sapric); Weak grade of structure, 5-10 mm, Cast; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very weak consistence; Common, fine (1-2mm) roots;
A2h	0.3 - 0.4 m	Black (10YR2/1-Moist); Black (10YR2/1-Dry); ; Silty loam (Sapric); Weak grade of structure, 5-10 mm, Cast; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Common, fine (1-2mm) roots; Diffuse, Irregular change to -
A3	0.4 - 0.66 m	Very dark grey (10YR3/1-Moist); Dark grey (10YR4/1-Dry); ; Silty loam (Sapric); Moderate grade of structure, 10-20 mm, Prismatic; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Common, fine (1-2mm) roots; Diffuse, Irregular change to -
B1	0.66 - 0.96 m	Dark greyish brown (10YR4/2-Moist); , 10YR62, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Silty clay loam; Moderate grade of structure, 10-20 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Few, fine (1-2mm) roots;
	0.96 - 1.26 m	Very dark greyish brown (10YR3/2-Moist); , 10YR62, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Silty clay loam; Moderate grade of structure, 10-20 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Few, fine (1-2mm) roots; Abrupt, Irregular change to -

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B21g	1.26 - 1.46 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR68, 2-10% , 5-15mm, Distinct; , 10YR68, 2-10% , 5-15mm, Distinct; Silty medium clay; Moderate grade of structure, 10-20 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Common (10 - 20 %), Organic (humified), Coarse (6 - 20 mm), Soft segregations; Few, very fine (0-1mm) roots;
B22	1.46 - 1.76 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR68, 2-10% , 5-15mm, Distinct; , 10YR68, 2-10% , 5-15mm, Distinct; Silty medium clay; Moderate grade of structure, 10-20 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Few, very fine (0-1mm) roots;
B23	1.76 - 1.97 m	Greyish brown (2.5Y5/2-Moist); , 7.5YR68, 2-10% , 5-15mm, Distinct; , 10YR68, 2-10% , 5-15mm, Distinct; Silty medium clay; Moderate grade of structure, 10-20 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Common (10 - 20 %), Organic (humified), Coarse (6 - 20 mm), Soft segregations; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

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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_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
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
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
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
9H1	Phosphate retention
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