Project Name: Regional

Project Code: REG Site ID: T380 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Locality: M.G. Cannon

Desc. By: Date Desc.: Elevation: 24/11/83 15 metres Sheet No.: 8061 1:100000 Map Ref.: Rainfall: 2250 Northing/Long.: 145.89722222222 Runoff: Very slow Easting/Lat.: Drainage: Rapidly drained -18.22083333333333

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Unconsolidated material (unidentified) QA

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Terrace (alluvial) Morph. Type: Elem. Type: Ridge Relief: 2 metres Channel bench **Slope Category:** Level No Data Slope: 0 % Aspect:

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Acidic Regolithic Orthic Tenosol **Principal Profile Form:** Uc1.12

ASC Confidence: Great Soil Group: No suitable group

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

	0.04	Valley of the beauty (40VDE) (4 Marie), Marilles, 0.000, Marilles, 0.000, Ocean delegan, (Light), World
Α	0 - 0.1 m	Yellowish brown (10YR5/4-Moist); Mottles, 0-0%; Mottles, 0-0%; Sandy loam (Light); Weak grade of structure, 2-5 mm, Cast; Earthy fabric; Moderately moist; Very weak consistence; Common, fine (1-2mm) roots; Clear, Smooth change to -
D	0.1 - 0.2 m	Very pale brown (10YR7/4-Moist); Mottles, 0-0%; Mottles, 0-0%; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Few, fine (1-2mm) roots; Clear, Smooth change to -
2Ab	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Mottles, 0-0%; Mottles, 0-0%; Sandy loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Common, fine (1-2mm) roots; Gradual, Wavy change to -
2Bb	0.3 - 0.6 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR78, 10-20%, 5-15mm, Faint; Mottles, 10-20%, 5-15mm, Faint; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, coarse (>5mm) roots;
2Bb	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR78, 10-20%, 5-15mm, Faint; Mottles, 10-20%, 5-15mm, Faint; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, coarse (>5mm) roots;
2Bb	0.9 - 1.2 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR78, 10-20%, 5-15mm, Faint; Mottles, 10-20%, 5-15mm, Faint; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, coarse (>5mm) roots; Diffuse, Wavy change to -
2Cb	1.2 - 1.5 m	Light yellowish brown (10YR6/4-Moist); Yellow (10YR7/6-Dry); Mottles, 0-0%; Mottles, 0-0%; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Common, medium (2-5mm) roots;
2Cb	1.5 - 1.8 m	Light yellowish brown (10YR6/4-Moist); Yellow (10YR7/6-Dry); Mottles, 0-0%; Mottles, 0-0%; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Common, medium (2-5mm) roots;

Morphological Notes

Observation Notes

YELLOW MOTTLING IS LENSES OF FINE SAND:

Site Notes

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Project Name: Project Code: Agency Name: Regional REG Site ID: T380 CSIRO Division of Soils (QLD) Observation ID: 1

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Laboratory Test Results:													
Depth	pН	1:5 EC			hangeable Cations Mg K		Exchangeable Acidity	CEC	ECEC	C E	SP		
m		dS/m					Cmol (+)/kg			9	6		
0 - 0.1	4.9A	0.093A	0.35H	0.68	0.2	0.02	0.75F	2.4A 4C	2F	_	.83 .50		
0.1 - 0.2	5.1A	0.042A	0.0011	0.50	0.47	0.00	0.05	24	4.01	- 4	00		
0.2 - 0.3	4.9A	0.064A	0.26H	0.53	0.17	0.02	0.8F	2A 3.2C	1.8		.00 .63		
0.3 - 0.6	5A	0.031A	0.26H	0.44	<0.02	0.03	1.16F	2.3A 3.2C	1.9	- 1	.30 .94		
0.6 - 0.9	5.1A	0.021A											
0.9 - 1.2	5A	0.015A											
1.2 - 1.5	5.4A	0.011A	<0.02H	0.14	<0.02	0.05	1.28F	1.8A 2.5C	1.5F		.78 .00		
1.5 - 1.8	5.5A	0.01A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		ticle Size CS FS	Analysis Silt			
m	%	%	mg/kg	%	%	%	Mg/m3		%		•		
0 - 0.1 0.1 - 0.2		1.27C	19B	0.019	A 0.1	1A 3.48	BA	0		29 7 8 2	9 6		
0.2 - 0.3		0.7C			0.1	1A		Ö		30 9	11		
0.3 - 0.6		0.5C	3B	0.02A	-	3.62	2A	Ö		2 13	15		
0.6 - 0.9								Ö	-	9 11	18		
0.9 - 1.2								Ö		7	10		
1.2 - 1.5		0.24C	4B	0.014	A	3.56	SA	0	25A 4	l8 12	14		
1.5 - 1.8								0	52A 3	35 7	6		
Depth	Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar												
m g/g - m3/m3 mm/h mm/h													

^{0 - 0.1} 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8

Project Name: Regional

10A1

T380 Observation ID: 1 **Project Code:** REG Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Laboratory Analyses Completed for this profile

Total sulfur - X-ray fluorescence Total element - Cu(mg/kg) - HF/HClO4 Digest 12_HF_CU 12_HF_FE 12_HF_MN Total element - Fe(%) - HF/HClO4 Digest Total element - Mn(mg/kg) - HF/HCIO4 Digest Total element - Zn(mg/kg) - HF/HClO4 Digest 12_HF_ZN

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 15E1_CA CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach

Exchangeable bases (Ca2+,Mg2+,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 15E1_NA Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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

Effective CEC 15J1

17A1 Total potassium - X-ray fluorescence

3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

5A2 Chloride - 1:5 soil/water extract, automated colour

6B3 Total organic carbon - high frequency induction furnace, infrared

Total nitrogen - semimicro Kjeldahl , automated colour 7A2

Total phosphorus - X-ray fluorescence 9A1

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

Phosphate retention 9H1

Clay (%) - Coventry and Fett pipette method Coarse sand (%) - Coventry and Fett pipette method P10_CF_C P10_CF_CS P10_CF_FS Fine sand (%) - Coventry and Fett pipette method P10_CF_Z Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)