Project Name: Regional

Observation ID: 1 **Project Code: REG** Site ID: T358

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Locality: M.G. Cannon 6KM from Careeya Scougal Road turnoff: Desc. Bv:

Date Desc.: 23/09/85 Elevation: No Data Map Ref.: Sheet No.: 8062 1:100000 Rainfall: 3500 145.808333333333 Northing/Long.: Runoff: Slow -17.8861111111111 Well drained Easting/Lat.: Drainage:

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Rises

Morph. Type: Crest Relief: No Data Elem. Type: Summit surface Slope Category: Level Aspect: No Data Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Acidic Dystrophic Red Ferrosol **Principal Profile Form:** Gn3.11

ASC Confidence: Great Soil Group: No suitable group

Analytical data are incomplete but reasonable confidence.

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Α1 0 - 0.14 m Reddish brown (2.5YR4/4-Moist): Clay loam: Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; Common, fine (1-2mm) roots; Gradual, Wavy change to -Red (2.5YR4/6-Moist); Clay loam; Moderate grade of structure, 2-5 mm, Subangular blocky; **A3** 0.14 - 0.29 m Smooth-ped fabric; Moist; Weak consistence; Common, fine (1-2mm) roots; Gradual, Wavy change to -В1 0.29 - 0.49 m Dark red (2.5YR3/6-Moist); ; Clay loam (Heavy); Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; Few, fine (1-2mm) roots; Gradual change B2 Dark red (2.5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, $0.49 - 0.79 \, \text{m}$ Polyhedral; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence: B2 0.79 - 0.95 m Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; Clear, Smooth change to -Red (2.5YR4/8-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; 2B 0.95 - 1.25 m Smooth-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 1.25 - 1.49 m Red (2.5YR4/8-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Gradual, Irregular change to -

2C 1.49 - 1.8 m Red (2.5YR4/8-Moist); , 7.5YR81, 20-50% , 5-15mm, Prominent; , 7.5YR78, 20-50% , 5-15mm, Prominent; Medium clay: Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse

fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Laboratory			_		0-4		Fresh amount of	. 050	_,	050		20
Depth	pН	1:5 EC	Exc Ca	changeable Mg	Cations K	Na	Exchangeab Acidity	le CEC	E	CEC	ES	SP
m		dS/m		5		Cmol (+					%	•
0 - 0.14	4.61A	0.255A	0.67H	0.84	0.28	0.11	1.55F	2.7A 9C	. 3	3.5F		07 22
0.14 - 0.29	4.91A	0.081A	.0.0011	0.44	0.44	0.04	0.86F				2	22
0.29 - 0.49	5.02A	0.029A	<0.02H	0.11	0.11	0.04	0.32F	1.2A 5C).6F		33 80
0.49 - 0.79	5.02A	0.017A	0.02H	0.1	0.1	0.04	0.12F		. 0).4F	5.	71 00
0.79 - 0.95	5.02A	0.015A										
0.95 - 1.25	5.06A		0.02H	0.15	0.1	0.03	1.51F	2.1A 3C	. 1	.8F		43 00
1.25 - 1.49 1.49 - 1.8	4.9A 4.95A	0.013A	0.01H	0.15	0.1	0.03	2.22F	0.5A	2	2.5F	6	00
1.40 - 1.0	4.557	0.0107	0.0111	0.10	0.1	0.00	2.221	3C		01		00
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	l Bulk Densit			ize FS	Analysis Silt C	lay
m	%	%	mg/kg	%	%	%	Mg/m3	1		%		
0 - 0.14		0.6C	12A 8B		0.0	3A		0	15A	6	25	54
0.14 - 0.29			7A 4B		0.02	2A		0	15A	1	20	59
0.29 - 0.49		0.2C	3A 5B		0.02	2A		1	12A	7	16	65
0.49 - 0.79		0.15C	5A 5B		0.0	2A		1	11A	11	14	64
0.79 - 0.95								1	12A	8	14	66
0.95 - 1.25		0.06C	7A 5B					18	46A	6	9	39
1.25 - 1.49								4	38A	5	12	45
1.49 - 1.8			5A 4B					5	22A	5	15	58
Depth	COLE	COLE Gravimetric/Volumetric Water Contents							K sat		K unsat	
-		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
m				g/s	g - m3/m3	3			mm/h		mm/h	

^{0 - 0.14} 0.14 - 0.29 0.29 - 0.49 0.49 - 0.79 0.79 - 0.95

^{0.95 - 1.25} 1.25 - 1.49 1.49 - 1.8

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Laboratory Analyses Completed for this profile

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 (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 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

2A1 Air-dry moisture content 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 Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable 9B_9C

Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) 9G_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 P10_CF_Z Fine sand (%) - Coventry and Fett pipette method

Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)