Project Name: CAN

Project Code: Site ID: **CP243** Observation ID: 1 CAN

CSIRO Division of Soils (ACT) Agency Name:

Site Information

Desc. By: C.J. Chartres Locality: Moruya Date Desc.: 18/02/86 Elevation: 25 metres Sheet No.: 8926 1:50000 Map Ref.: Rainfall: No Data Northing/Long.: 150.12 Runoff: No Data

-35.64222225 Datum: AGD66 Drainage: Moderately well drained Easting/Lat.:

Geology

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

Landform

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: No Data Relief: 15 metres Elem. Type: No Data Slope Category: No Data Slope: 0 % Aspect: No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Dd2.3 **Principal Profile Form:** ASC Confidence: **Great Soil Group:** N/A

Confidence level not specified

Site Disturbance Vegetation

Surface Coarse Fragments

Profile Morphology

Dark greyish brown (10YR4/2-Moist); Light brownish grey (10YR6/2-Dry); ; Loam; 0 - 0.05 m structure; Very weak consistence; Clear change to -

Massive grade of

Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); ; Clayey sand; Massive grade Α2 0.05 - 0.09 m

of structure;

Very weak consistence; Abrupt, Irregular change to -

Very dark greyish brown (10YR3/2-Moist); Yellowish red (5YR5/6-Moist); ; Heavy clay; B2 0.09 - 0.2 m

Weak grade of structure, 50-100 mm, Angular blocky; Firm consistence; Clear change to -

ВЗ 0.2 - 0.35 m Very dark greyish brown (10YR3/2-Moist); Yellowish brown (10YR5/4-Moist); ; Medium

clay; Massive

grade of structure; Firm consistence; Gradual change to -

C1 0.38 - 0.6 m Dark greyish brown (10YR4/2-Moist); Light yellowish brown (2.5Y6/4-Moist); ; Clay loam; Massive grade

of structure; Weak consistence;

C2 0.65 - 0.75 m Dark greyish brown (10YR4/2-Moist); Light yellowish brown (2.5Y6/4-Moist); ; Massive grade of

structure; Strong consistence;

C2 0.65 - 0.75 m Very dark brown (10YR2/2-Moist);;

СЗ 2 - 2.2 m Light grey (2.5Y7/2-Moist); ; Loam; Strong consistence;

C4 4.5 - 4.55 m ; Massive grade of structure; Very strong consistence;

C5 1.1 - 1.15 m

Morphological Notes

Α1 Abundant roots A2 Sporadic A2

B2 first colour is the dominant matrix colour, second is fine material; dry and moist colours are the

first colour is the dominant matrix colour, second is coarse material; dry and moist colours **B**3

are the

same

C1	weathered granite fabric prominent; first colour is the dominant matrix colour, second is
coarse	
	material; dry and moist colours are the same
C2	weathered granite matrix
C2	clay band in planar feature in weathered granite matrix
C3	weathered granite matrix
C4	weathered granite matrix
C5	matrix of weathered granite/clay band 10yr2/2 in planar feature of weathered granite. Approximately 1 m of west cutting has been removed.

Observation Notes

Site Notes

On Princess Highway 7.9 km S. of Moruya P.O. Road cutting, sampled at hill crest. Volunteer grasses in cleared eucapypt woodland. On

Moruya tonalite geology (with common sodic feltspars).

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Laboratory Test Results:

Depth	рН	1:5 EC		xchangeat	ole Cations		Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m				Cmol	(+)/kg			%
0 - 0.05	5.7A	0.03A	2.8F	1.9	0.2	0.14				
0.05 - 0.09	5.9A	0.02A	0.84F	0.63	0.1	0.09				
0.09 - 0.2	5.7A	0.04A	0.66F	7.4	0.13	1.2				
0.2 - 0.35	5.7A	0.05A	0.43F	8.2	0.13	1.4				
0.38 - 0.6	5.6A	0.12A	0.09F	10.6	0.15	3.5				
0.65 - 0.75	5.4A	0.15A	0.07F	7.3	0.18	4.2				
	5.2A	0.26A	0.05F	7.6	0.17	6.1				
0.65 - 0.75	5.4A	0.15A	0.07F	7.3	0.18	4.2				
	5.2A	0.26A	0.05F	7.6	0.17	6.1				
2 - 2.2	5.7A	0.19A	0.01F	9.9	0.19	4.8				
4.5 - 4.55	6.8A	0.02A	0.07F	4.8	0.14	2.4				
1.1 - 1.15	6A	0.07A	0.02F	5.5	0.11	3.9				

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particl GV CS	e Size A FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.05 7		1.41A						33/	42	16
0.05 - 0.09 5		0.32A						45/	38	10
0.09 - 0.2 44		0.47A						27/	20	8
0.2 - 0.35 38		0.38A						30/	21	8
0.38 - 0.6 25		0.1A						38/	17	8
0.65 - 0.75 12		A80.0						37/	10	11
		0.09A								
0.65 - 0.75 12		0.08A						37/	10	11
		0.09A								
2 - 2.2		A80.0								
4.5 - 4.55		0.01A								
1.1 - 1.15		0.09A								

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15D1 CA	Exchangeable bases (Ca2+.Mg2+.Na+.K+) - 1M ammonium acetate at pH 7.0, pretreatment for

soluble salts;	manual leach
15D1_K manual leach	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;
15D1_MG manual leach	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;
15D1_NA manual leach	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;
15I4 2A1 3A1 4A1 5A1 6A1 P10_CF_C P10_CF_CS P10_CF_FS P10_CF_Z	CEC measurement - titration of ammonium and chloride ions Air-dry moisture content EC of 1:5 soil/water extract pH of 1:5 soil/water suspension Chloride - 1:5 soil/water extract, potentiometric titration Organic carbon - Walkley and Black Clay (%) - Coventry and Fett pipette method Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method