

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** CP113      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	C.L. Watson	<b>Locality:</b>	~7KM east of Bellata:Terry Hie Hie Road
<b>Date Desc.:</b>	30/08/78	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8838 1:100000	<b>Rainfall:</b>	640
<b>Northing/Long.:</b>	149.883333333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-29.9	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Slightly porous, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Rolling low hills 30-90m 10-	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	300 degrees

**Surface Soil Condition (dry):** Recently cultivated, Self-mulching

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epicalcareous Self-Mulching Black Vertosol		<b>Principal Profile Form:</b>	Ug5.14
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable group

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; 2-5 mm, Granular; Very weak consistence; Moderately plastic; Non-sticky; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.4 (pH meter);
0.05 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Massive grade of structure; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.4 (pH meter);
0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Massive grade of structure; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Massive grade of structure; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter);
0.3 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter);
0.4 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
0.5 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
0.6 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
0.7 - 0.8 m	Dark grey (10YR4/1-Moist); , 10YR63, 20-50% ; , 20-50% ; Medium heavy clay; Weak consistence; Slightly plastic; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9 (pH meter);
0.8 - 1 m	Very pale brown (10YR7/3-Moist); ; Medium heavy clay; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete; Field pH 9.1 (pH meter);

**Morphological Notes**

**Observation Notes**

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**Site Notes**

BELLATA

CARBONATE CEMENTED LAYER 100CM

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	8.4A	0.13A	42.3K	16.8	1.2	0.52	4.9B	65.8J		0.79
0.05 - 0.1	8.5A	0.13A								
0.1 - 0.2	8.6A	0.15A								
0.2 - 0.3	8.7A	0.18A								
0.3 - 0.4	8.8A	0.19A								
0.4 - 0.5	8.9A	0.21A								
0.5 - 0.6	8.9A	0.25A								
0.6 - 0.7	9A	0.26A								
0.7 - 0.8	9.1A	0.27A								
0.8 - 1	9.2A	0.29A								

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
19A1	Carbonates - rapid titration
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate