

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** CP126      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (VIC)

**Site Information**

<b>Desc. By:</b>	C.L. Watson	<b>Locality:</b>	Lonerenong Agricultural College paddock 4 just west of main buildings
<b>Date Desc.:</b>	13/10/78	<b>Elevation:</b>	150 metres
<b>Map Ref.:</b>	Sheet No. : 7324    1:100000	<b>Rainfall:</b>	450
<b>Northing/Long.:</b>	142.3	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-36.6666666666667	<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>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	2 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endocalcareous-Endohypersodic Self-Mulching Grey Vertosol	<b>Principal Profile Form:</b>	Ug5.24
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Grey clay

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, <2 mm, Granular; Weak consistence; Field pH 8.3 (pH meter); Sharp change to -
0.08 - 0.2 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very weak consistence; Field pH 8.5 (pH meter);
0.2 - 0.3 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very weak consistence; Moderately plastic; Field pH 8.6 (pH meter); Sharp change to -
0.3 - 0.4 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very weak consistence; Moderately plastic; Field pH 8.7 (pH meter);
0.4 - 0.5 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very weak consistence; Moderately plastic; Field pH 8.8 (pH meter);
0.5 - 0.6 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very firm consistence; Field pH 9 (pH meter);
0.6 - 0.7 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very firm consistence; Field pH 9.1 (pH meter);
0.7 - 0.8 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very firm consistence; Field pH 9.2 (pH meter);
0.8 - 0.9 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very firm consistence; Field pH 9 (pH meter); Sharp change to -
0.9 - 1 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.9 (pH meter);
1 - 1.1 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
1.1 - 1.2 m	Dark grey (10YR4/1-Moist); , 10YR62; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter);

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1.2 - 1.3 m	Dark grey (10YR4/1-Moist); , 10YR62; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
1.3 - 1.4 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter);
1.4 - 1.5 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.5 - 1.6 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
1.6 - 1.7 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.7 - 1.8 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
1.8 - 1.9 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
1.9 - 2 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Field pH 8.2 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

HORSHAM

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Depth m	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	mm/h	mm/h
		g/g - m3/m3								
0 - 0.08								0.25B		

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0.08 - 0.2  
0.2 - 0.3  
0.3 - 0.4  
0.4 - 0.5  
0.5 - 0.6  
0.6 - 0.7  
0.7 - 0.8  
0.8 - 0.9  
0.9 - 1  
1 - 1.1  
1.1 - 1.2  
1.2 - 1.3  
1.3 - 1.4  
1.4 - 1.5  
1.5 - 1.6  
1.6 - 1.7  
1.7 - 1.8  
1.8 - 1.9  
1.9 - 2

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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_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