

Project Name: CAN
Project Code: CAN **Site ID:** CP128 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	C.L. Watson	Locality:	Wimmera Highway:Lallat Plains
Date Desc.:	14/10/78	Elevation:	140 metres
Map Ref.:	Sheet No. : SJ7424 1:100000	Rainfall:	450
Northing/Long.:	142.683333333333	Runoff:	No Data
Easting/Lat.:	-36.633333333333	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	<1 %	Aspect:	No Data

Surface Soil Condition (dry): Soft, Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol	Principal Profile Form:	Ug5.16

ASC Confidence:

Analytical data are incomplete but reasonable confidence.

Great Soil Group:

Black earth

Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - Triticum aestivum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Granular; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Sharp change to -
0.06 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Massive grade of structure; Weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8 (pH meter); Sharp change to -
0.12 - 0.2 m	Brown (7.5YR4/2-Moist); , 10YR32, 0-2% ; , 0-2% ; Medium heavy clay; Massive grade of structure; Weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter); Sharp change to -
0.2 - 0.36 m	Very dark greyish brown (10YR3/2-Moist); , 7.5YR42, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm; Weak consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter); Sharp change to -
0.36 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter);
0.4 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
0.5 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
0.6 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter); Sharp change to -
0.7 - 0.8 m	Very dark greyish brown (10YR3/2-Moist); , 5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);

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0.8 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); , 5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); Sharp change to -
0.9 - 1 m	Brown (7.5YR5/4-Moist); , Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter); Gradual change to -
1 - 1.1 m	Brown (7.5YR5/4-Moist); , 10YR63, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);
1.1 - 1.2 m	Brown (7.5YR5/4-Moist); , 10YR63, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
1.2 - 1.3 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
1.3 - 1.4 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
1.4 - 1.5 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
1.5 - 1.6 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter);
1.6 - 1.7 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
1.7 - 1.8 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter);
1.8 - 1.9 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

RUPANYUP

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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 - 0.06	8A	0.14A	30.9K	6.4	3.3	0.83	7.6B	49J		1.69
0.06 - 0.12	8.3A	0.1A								
0.12 - 0.2	8.5A	0.07A								
0.2 - 0.36	8.7A	0.09A								
0.36 - 0.4	8.8A	0.22A								
0.4 - 0.5	8.9A	0.28A								
0.5 - 0.6	9.1A	0.16A								
0.6 - 0.7	9.2A	0.47A								
0.7 - 0.8	9.2A	0.7A								
0.8 - 0.9	9.1A	1A								
0.9 - 1	8.9A	1.4A								
1 - 1.1	8.9A	1.6A								
1.1 - 1.2	8.8A	1.7A								
1.2 - 1.3	8.8A	1.8A								
1.3 - 1.4	8.7A	1.8A								
1.4 - 1.5	8.7A	1.8A								
1.5 - 1.6	8.7A	1.9A								
1.6 - 1.7	8.7A	2A								
1.7 - 1.8	8.7A	2A								
1.8 - 1.9	8.7A	2.1A								

[illegible]

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 - 0.06								0.26B		

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0.06 - 0.12
0.12 - 0.2
0.2 - 0.36
0.36 - 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

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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