

Project Name: CAN
Project Code: CAN **Site ID:** CP148 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	G.A. Stewart	Locality:	Auscott field 18
Date Desc.:	11/06/79	Elevation:	190 metres
Map Ref.:	Sheet No. : SI8434 1:100000	Rainfall:	600
Northing/Long.:	147.733333333333	Runoff:	Very slow
Easting/Lat.:	-31.75	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol	Principal Profile Form:	Ug5.24

ASC Confidence:

Analytical data are incomplete but reasonable confidence.

Great Soil Group:

Grey clay

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
0.15 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.1 (pH meter);
0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter);
0.3 - 0.4 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
0.4 - 0.5 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter);
0.5 - 0.6 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; 0-2%, rounded, dispersed, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
0.6 - 0.7 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; 0-2%, rounded, dispersed, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
0.7 - 0.8 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; 0-2%, rounded, dispersed, coarse fragments; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9 (pH meter);
0.8 - 0.9 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; 0-2%, rounded, dispersed, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9 (pH meter);

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0.9 - 1 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9 (pH meter);
1 - 1.1 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
1.1 - 1.2 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.2 (pH meter);
1.2 - 1.3 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 7.8 (pH meter);
1.3 - 1.4 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Concretions; Field pH 7.9 (pH meter);
1.4 - 1.5 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 7.9 (pH meter);
1.5 - 1.6 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8 (pH meter);
1.6 - 1.7 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.2 (pH meter);
1.7 - 1.8 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
1.8 - 1.9 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
1.9 - 2 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Very plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8 (pH meter);

Morphological Notes

Observation Notes

SOME SMOOTH FACES 60-120CM

Site Notes

NEVERTIRE

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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 - 0.15	8.1A	0.1A	22K	9.2	1.3	0.65	6.2B	39.4J		1.65
0.15 - 0.2	8.1A	0.16A								
0.2 - 0.3	8.3A	0.15A								
0.3 - 0.4	8.5A	0.15A								
0.4 - 0.5	8.7A	0.17A								
0.5 - 0.6	8.8A	0.22A								
0.6 - 0.7	8.9A	0.26A								
0.7 - 0.8	9A	0.31A								
0.8 - 0.9	9A	0.42A								
0.9 - 1	9A	0.57A								
1 - 1.1	8.9A	0.64A								
1.1 - 1.2	8.2A	1.9A								
1.2 - 1.3	7.8A	3.2A								
1.3 - 1.4	7.9A	3.5A								
1.4 - 1.5	7.9A	3.6A								
1.5 - 1.6	8A	3.2A								
1.6 - 1.7	8.2A	2.4A								
1.7 - 1.8	8.4A	1.6A								
1.8 - 1.9	8.1A	2.4A								
1.9 - 2	8A	2.6A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15	0.21A	0.76D							8D	26	13	50
0.15 - 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												

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 - 0.15								0.19B		

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0.15 - 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_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