

Project Name: CAN
Project Code: CAN **Site ID:** CP119 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	C.L. Watson	Locality:	Inverness ~10KM from Cryon on Walgett Road
Date Desc.:	02/09/78	Elevation:	160 metres
Map Ref.:	Sheet No. : 8637 1:100000	Rainfall:	500
Northing/Long.:	148.533333333333	Runoff:	Very slow
Easting/Lat.:	-30.016666666667	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): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Episodic-Epicalcareous Self-Mulching Grey Vertosol		Principal Profile Form:	Ug5.
ASC Confidence:		Great Soil Group:	Grey clay

All necessary analytical data are available.

Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Sod grass, , . *Species includes - Triticum aestivum

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 8.9 (pH meter);
0.03 - 0.15 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 9.1 (pH meter);
0.15 - 0.2 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter);
0.2 - 0.3 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.3 (pH meter);
0.3 - 0.4 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.3 (pH meter);
0.4 - 0.5 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
0.5 - 0.6 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter);
0.6 - 0.7 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
0.7 - 0.8 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9 (pH meter);
0.8 - 0.9 m	Grey (10YR5/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);
0.9 - 1 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
1 - 1.1 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter);

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1.1 - 1.2 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
1.2 - 1.3 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
1.3 - 1.4 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.5 (pH meter);
1.4 - 1.5 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.5 - 1.6 m	Grey (10YR5/1-Moist); , 10YR52, 2-10% ; , 2-10% ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.6 - 1.7 m	Grey (10YR5/1-Moist); , 10YR52, 2-10% ; , 2-10% ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.7 - 1.8 m	Grey (10YR5/1-Moist); , 10YR52, 10-20% ; , 10-20% ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.8 - 2 m	Grey (10YR5/1-Moist); , 10YR52, 10-20% ; , 10-20% ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

OCCASIONAL POCKETS OF LIGHT BROWN SAND ~100CM:150-200CM SLICKENSIDES

Site Notes

CRYON

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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 - 0.03	8.9A	0.22A	26.3K	12	1.7	4.1	6.6B	50.7J		8.09
0.03 - 0.15	9.1A	0.31A								
0.15 - 0.2	9.2A	0.35A								
0.2 - 0.3	9.3A	0.42A								
0.3 - 0.4	9.3A	0.49A								
0.4 - 0.5	9.2A	0.59A								
0.5 - 0.6	9.2A	0.72A								
0.6 - 0.7	9.1A	1.02A								
0.7 - 0.8	9A	1.1A								
0.8 - 0.9	8.9A	1.3A								
0.9 - 1	8.8A	1.6A								
1 - 1.1	8.3A	3A								
1.1 - 1.2	8.4A	2.6A								
1.2 - 1.3	8.4A	2.9A								
1.3 - 1.4	8.5A	2.5A								
1.4 - 1.5	8.7A	1.9A								
1.5 - 1.6	8.7A	1.9A								
1.6 - 1.7	8.7A	2A								
1.7 - 1.8	8.7A	2A								
1.8 - 2	8.8A	1.9A								

[illegible]

Depth	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
m		g/g - m3/m3								
0 - 0.03								0.23B		

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0.03 - 0.15
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 - 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