Project Name: CAN

Project Code: CAN Site ID: CP116 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: C.L. Watson Locality: Research Station Springville

 Date Desc.:
 31/08/78
 Elevation:
 220 metres

 Map Ref.:
 Sheet No.: 8837
 1:100000
 Rainfall:
 640

 Northing/Long.:
 149.616666666667
 Runoff:
 Very slow

Easting/Lat.: -30.2166666666667 Drainage: Imperfectly drained

<u>Geology</u>

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%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Soft, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEpicalcareous-Endohypersodic Self-Mulching Black VertosolPrincipal Profile Form:Ug5.15

ASC Confidence: Great Soil Group: Black earth

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.06 m Dark brown (7.5YR3/2-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; 5-10 mm,

Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 8 (pH

meter);

0.06 - 0.1 m Dark brown (7.5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky;

Very weak consistence; Moderately plastic; Slightly sticky; Very few (0 - 2 %), Calcareous, , Soft

segregations; Field pH 8.3 (pH meter);

0.1 - 0.2 m Dark brown (7.5YR3/2-Moist); ; Heavy clay; Very weak consistence; Moderately plastic; Slightly

sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);

0.2 - 0.3 m Dark brown (7.5YR3/2-Moist); , 7.5YR32, 20-50%; , 20-50%; Heavy clay; Very weak

consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations;

Field pH 8.4 (pH meter);

0.3 - 0.4 m Dark brown (7.5YR3/2-Moist); , 7.5YR32, 20-50%; , 20-50%; Heavy clay; Very weak

consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field

pH 8.5 (pH meter);

0.4 - 0.5 m Dark brown (7.5YR3/2-Moist); , 7.5YR32, 20-50%; , 20-50%; Heavy clay; Very weak

consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations;

Field pH 8.5 (pH meter);

 $0.5 - 0.6 \ m$ Dark brown (7.5YR3/2-Moist); , 7.5YR32, 20-50% ; , 20-50% ; Heavy clay; Very weak

consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field

pH 8.5 (pH meter);

0.6 - 0.7 m Dark brown (7.5YR3/2-Moist); , 7.5YR32, 20-50%; , 20-50%; Heavy clay; Very weak

consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations;

Field pH 8.5 (pH meter);

0.7 - 0.8 m Dark brown (7.5YR3/2-Moist); , 7.5YR32, 20-50%; , 20-50%; Heavy clay; Very weak

consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field

pH 8.6 (pH meter);

CSIRO Division of Soils (NSW) Agency Name: 0.8 - 0.9 m Dark brown (7.5YR3/2-Moist); , 7.5YR32, 20-50%; , 20-50%; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; 0.9 - 1 m Dark brown (7.5YR3/2-Moist); , 7.5YR32; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter); Dark brown (7.5YR3/2-Moist); , 7.5YR32; Heavy clay; Very weak consistence; Moderately plastic; 1 - 1.1 m Slightly sticky; Few (2 - 10 %), Calcareous, Concretions; Field pH 8.6 (pH meter); Dark brown (7.5YR3/2-Moist); , 7.5YR32; Heavy clay; Very weak consistence; Moderately plastic; 1.1 - 1.2 m Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter); 1.2 - 1.3 m Dark brown (7.5YR3/2-Moist); , 7.5YR32; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Concretions; Field pH 8.3 (pH meter); 1.3 - 1.4 m Dark brown (7.5YR3/2-Moist); , 7.5YR32; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 7.9 (pH meter); 1.4 - 1.5 m Dark brown (7.5YR3/2-Moist); , 7.5YR32; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Concretions; Field pH 7.9 (pH meter); 1.5 - 1.6 m Dark brown (7.5YR3/2-Moist); , 7.5YR32; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 7.9 (pH meter); Dark brown (10YR3/3-Moist); ; Heavy clay; Very weak consistence; Moderately plastic; Slightly 1.6 - 1.7 m sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.1 (pH meter); 1.7 - 1.8 m Dark brown (10YR3/3-Moist); ; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.2 (pH meter); 1.8 - 1.9 m Dark brown (10YR3/3-Moist); ; Heavy clay; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.2 (pH meter);

Morphological Notes

CAN

CAN

Project Name:

Project Code:

Observation Notes

SLICKENSIDES INCREASING WITH DEPTH >30CM:AT >160CM LESS SLICKENSIDES:

Site ID:

CP116

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Site Notes

WEE WAA

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Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	e CEC	ECEC	ESP
m		dS/m	Ca	wy	K	Cmol (+				%
0 - 0.06 0.06 - 0.1 0.1 - 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	8A 8.3A 8.5A 8.5A 8.5A 8.5A 8.5A 8.6A 8.5A 8.5A 7.9A 7.9A 7.9A 8.1A 8.2A 8.1A	0.15A 0.14A 0.14A 0.15A 0.17A 0.17A 0.16A 0.17A 0.18A 0.25A 0.69A 0.55A 0.36A 0.35A		9.3	1.7	0.47	2.9B	39.8J		1.18
Depth m	CaCO3	Organic C %	Avail. P mg/kg	P	Total N %	Total K %	Bulk Density Mg/m3		ticle Size CS FS %	Analysis Silt Clay
0 - 0.06 0.06 - 0.1 0.1 - 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	0.35A			•					3D 10	6 21 54
Depth	COLE	Sat.		avimetric/Vo		Vater Con 1 Bar		15 Bar	K sat	K unsat
m				g/	g - m3/m	3			mm/h	mm/h
0 - 0.06								0.21B		

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0.06 - 0.1 0.1 - 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

0.8 - 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_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15_NR_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15_NR_NAExch. 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
P10_PB_CS
Clay (%) - Plummet balance
Coarse sand (%) - Plummet balance
P10_PB_FS
P10_PB_Z
Clay (%) - Plummet balance
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance

P3B_GV_15 15 BAR Moisture g/g - Gravimetric using pressure plate