Project Name: CAN
Project Code: CAN **Site ID:** CP147 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: G.A. Stewart
Locality: 1.5KM south south west off road to Trangie/Dandaloo Road:Auburn Trangie~14KM
Date Desc.: 10/06/79
Elevation: 200 metres
Map Ref.: Sheet No. : SI8433 1:100000
Rainfall: 640
Northing/Long.: 147.7
Runoff: No Data
Easting/Lat.: -32.1333333333333
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: Gently undulating plains <9m 1-3%
Pattern Type: Alluvial plain
Morph. Type: Open depression (vale)
Relief: No Data
Elem. Type: Drainage depression
Slope Category: Very gently sloped
Slope: 0 %
Aspect: No Data

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

Erosion:

Soil Classification

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

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Grey clay

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded

Tall Strata - Tree, , Isolated clumps. *Species includes - Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, <2 mm, Granular; Very weak consistence; Moderately plastic; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 6.8 (pH meter);
0.08 - 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; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.3 - 0.4 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
0.4 - 0.5 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
0.5 - 0.6 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, , Soft segregations; Field pH 9.2 (pH meter);
0.6 - 0.7 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, , Concretions; Field pH 9.2 (pH meter);
0.7 - 0.8 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, , Soft segregations; Field pH 9.2 (pH meter);

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0.8 - 0.9 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, , Concretions; Field pH 9.1 (pH meter);
0.9 - 1 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 9 (pH meter);
1 - 1.1 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; , Gypseous, Medium (2 -6 mm), ; Field pH 8.9 (pH meter);
1.1 - 1.2 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; Many (20 - 50 %), Calcareous, , Soft segregations; , Gypseous, Medium (2 -6 mm), ; Field pH 8.8 (pH meter);
1.2 - 1.3 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.3 - 1.4 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.4 - 1.5 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.6 (pH meter);
1.5 - 1.6 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
1.6 - 1.7 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
1.7 - 1.8 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.2 (pH meter);
1.8 - 1.9 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.9 (pH meter);
1.9 - 2 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; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.9 (pH meter);

Morphological Notes

Observation Notes

SOME SHINY SURFACES >30CM

Site Notes

TRANGIE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.08	6.8A	0.09A	14.6K	5.6	2.6	0.18	10.2B	33.2J		0.54
0.08 - 0.2	8.5A	0.15A								
0.2 - 0.3	8.7A	0.19A								
0.3 - 0.4	8.9A	0.27A								
0.4 - 0.5	9.1A	0.39A								
0.5 - 0.6	9.2A	0.52A								
0.6 - 0.7	9.2A	0.65A								
0.7 - 0.8	9.2A	0.84A								
0.8 - 0.9	9.1A	0.94A								
0.9 - 1	9A	1A								
1 - 1.1	8.9A	1.2A								
1.1 - 1.2	8.8A	1.4A								
1.2 - 1.3	8.7A	1.5A								
1.3 - 1.4	8.7A	1.5A								
1.4 - 1.5	8.6A	1.6A								
1.5 - 1.6	8.4A	1.8A								
1.6 - 1.7	8.4A	1.6A								
1.7 - 1.8	8.2A	1.5A								
1.8 - 1.9	7.9A	1.5A								
1.9 - 2	7.9A	1.5A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		1.69D							7D	34	12	45
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												

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		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.08								0.18B		

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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_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
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