

Project Name: CAN
Project Code: CAN **Site ID:** CP146 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	G.A. Stewart	Locality:	2.6KM south west of Trangie/Nevertire Road along Tottenham Road: Trangie~22KM Mulyan
Date Desc.:	10/06/79	Elevation:	200 metres
Map Ref.:	Sheet No. : SI8433 1:100000	Rainfall:	640
Northing/Long.:	147.616666666667	Runoff:	Very slow
Easting/Lat.:	-32.016666666667	Drainage:	Imperfectly drained

Geology

Exposure Type:	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, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Episodic-Epicalcareous Epipedal Brown Vertosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Ug5.6
		Great Soil Group:	Grey clay

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded
Tall Strata - Tree, , Isolated plants. *Species includes - Acacia cana

Surface Coarse Fragments:

Profile Morphology

0 - 0.04 m	Brown (7.5YR4/3-Moist); ; Light clay; Fine, (0 - 5) mm crack; Firm consistence;
0.04 - 0.1 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; Fine, (0 - 5) mm crack; Firm consistence; Field pH 7.3 (pH meter);
0.1 - 0.2 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter);
0.2 - 0.3 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter);
0.3 - 0.4 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
0.4 - 0.5 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.5 (pH meter);
0.5 - 0.6 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
0.6 - 0.7 m	Brown (10YR5/3-Moist); , 10YR54, 2-10% , Faint; , 2-10% , Faint; Medium heavy clay; Very firm consistence; Many (20 - 50 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.4 (pH meter);
0.7 - 0.8 m	Brown (10YR5/3-Moist); , 10YR54, 2-10% , Faint; , 2-10% , Faint; Medium heavy clay; Very firm consistence; Many (20 - 50 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.4 (pH meter);
0.8 - 0.9 m	Brown (10YR5/3-Moist); , 10YR54, 2-10% , Faint; , 2-10% , Faint; Medium heavy clay; Very firm consistence; Many (20 - 50 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.3 (pH meter);
0.9 - 1 m	Brown (10YR5/3-Moist); , 10YR54, 2-10% , Faint; , 2-10% , Faint; Medium heavy clay; , Platy; Very firm consistence; Common (10 - 20 %), Gypseous, , Crystals; Field pH 7.7 (pH meter);

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1 - 1.1 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8 (pH meter);
1.1 - 1.2 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.2 (pH meter);
1.2 - 1.3 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
1.3 - 1.4 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.5 (pH meter);
1.4 - 1.5 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.5 - 1.6 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter);
1.6 - 1.7 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter);
1.7 - 1.8 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
1.8 - 1.9 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

POCKETS OF GREY HYDROPHOBIC MATERIAL 20-45CM:SOME SHINY SURFACES >100CM

Site Notes

TRANGIE

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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 - 0.04								0.15B		

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0.04 - 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

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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