

Project Name: CAN
Project Code: CAN **Site ID:** CP73 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P.H. Walker	Locality:	901
Date Desc.:	01/04/77	Elevation:	600 metres
Map Ref.:	Sheet No. : 8727 1:100000	Rainfall:	640
Northing/Long.:	149.205	Runoff:	Slow
Easting/Lat.:	-35.2852777777778	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	225 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Hypercalcic Brown Kandosol		Principal Profile Form:	Gn
ASC Confidence:		Great Soil Group:	Yellow earth

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/4-Moist); ; Fine sandy loam; Massive grade of structure; Dry; Firm consistence; Field pH 5 (pH meter); Gradual change to -
A1	0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); ; Fine sandy loam; Massive grade of structure; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), ; Field pH 5.1 (pH meter); Diffuse change to -
A2	0.2 - 0.3 m	Yellowish red (5YR4/8-Moist); Strong brown (7.5YR5/6-Dry); ; Fine sandy loam; Massive grade of structure; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.3 (pH meter); Diffuse change to -
A3	0.3 - 0.4 m	Yellowish red (5YR4/8-Moist); ; Clay loam, fine sandy; Massive grade of structure; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.8 (pH meter); Clear change to -
B1	0.4 - 0.5 m	Yellowish red (5YR5/6-Moist); ; Fine sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.7 (pH meter); Clear change to -
B1	0.5 - 0.6 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.9 (pH meter); Gradual change to -
B1	0.6 - 0.7 m	Reddish brown (2.5YR5/4-Moist); , 2.5YR36, 2-10% ; , 2-10% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 7 (pH meter); Clear change to -
B2	0.7 - 0.8 m	Yellowish red (5YR4/6-Moist); , 2.5Y56, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Smooth-ped fabric; Dry; Very strong consistence; Field pH 7 (pH meter); Clear change to -

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B2	0.8 - 0.9 m	Light olive brown (2.5Y5/4-Moist); , 2.5Y42; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Field pH 7.2 (pH meter); Gradual change to -
B2	0.9 - 1 m	Light olive brown (2.5Y5/4-Moist); , 2.5Y42, 0-2% ; , 0-2% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Field pH 7.9 (pH meter); Gradual change to -
B2	1.1 - 1.3 m	Greyish brown (2.5Y5/3-Moist); , 2.5Y42, 0-2% ; , 0-2% ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Field pH 8.6 (pH meter); Gradual change to -
Bk	1.3 - 1.5 m	Light olive brown (2.5Y5/4-Moist); , 5YR46, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, , ; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Clear change to -
BCK	1.5 - 1.7 m	Light olive brown (2.5Y5/4-Moist); , 5YR58, 20-50% ; , 2.5YR44, 20-50% ; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Gradual change to -
Ck	1.7 - 1.9 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y58, 0-2% ; , 2.5YR44, 0-2% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Gradual change to -
Ck	1.9 - 2 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y58, 0-2% ; , 2.5YR44, 0-2% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);

Morphological Notes

Observation Notes

ALLUVIUM BIOTIC ACTIVITY 0-60CM

Site Notes

KARARA

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[illegible]

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1.3 - 1.5
1.5 - 1.7
1.7 - 1.9
1.9 - 2

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Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
7_NR	Total nitrogen (%) - Not recorded
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