Project Name: CAN
Project Code: CAN **Site ID:** CP163 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	D. McGarry	**Locality:**	Garoka paddock 8 east end
Date Desc.:	20/11/79	**Elevation:**	200 metres
Map Ref.:	Sheet No. : 8737 1:100000	**Rainfall:**	640
Northing/Long.:	149.201944444444	**Runoff:**	Very slow
Easting/Lat.:	-30.1538888888889	**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): Self-mulching, Loose

Erosion:

Soil Classification

Australian Soil Classification:
Episodic-Epicalcareous Self-Mulching Grey Vertosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Ug5.15
Great Soil Group: Grey clay

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Forb, 1.01-3m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, , Quartz

Profile Morphology

0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 10YR32; Medium heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Loose consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 7.8 (pH meter); Clear change to -
0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); , 10YR32; Medium heavy clay; 10-20 mm, Subangular blocky; Firm consistence; Field pH 8.4 (pH meter); Clear change to -
0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); , 10YR32; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter); Diffuse, Tongued change to -
0.3 - 0.4 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);

Morphological Notes

Observation Notes

LAND PLANED:SEDIMENTS OF BASALTIC (MAJOR) AND SEDIMENTARY ORIGIN

Site Notes

MERAH NORTH

Project Name: CAN
Project Code: CAN **Site ID:** CP163 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	7.8A	0.22A	22K	13.2	1.3	2.1	8.4B	47J		4.47
0.1 - 0.2	7.9A	0.19A	21.5K	13	1	2.9	7B	45.4J		6.39
0.2 - 0.3	8.5A	0.13A	20.4K	13.6	0.89	4.5	6.9B	46.2J		9.74
0.3 - 0.4	8.7A	0.2A	19.2K	13.6	0.86	6.3	6.2B	46.2J		13.64

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 - 0.1	0.17A	2.13D	41A		0.102B				5D	11	20	59
0.1 - 0.2		1.05D	32.6A		0.083B							
0.2 - 0.3		0.74D	16.8A									
0.3 - 0.4	0.41A	0.7D	16.4A						5D	10	22	62

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 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.4									

Project Name: **CAN**
Project Code: **CAN** **Site ID:** **CP163** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (NSW)**

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
7_NR	Total nitrogen (%) - Not recorded
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
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