

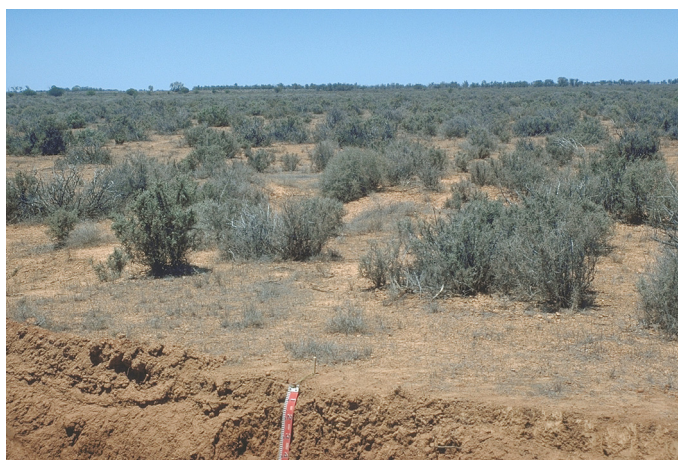
## CALCAREOUS CLAY LOAM

**General Description:** *Calcareous loam with increasing clay and carbonate content with depth*

**Landform:** Gentle slopes and flats.

**Substrate:** Gravelly alluvium or slope wash (Telford Gravel)

**Vegetation:** *Marieana brevifolia* (bluebush)



<b>Type Site:</b>	Site No.:	CM083	1:50,000 mapsheet:	6831-4
	District:	Eastern Districts	Easting:	381500
	Property:	Braemar	Northing:	6331650
	Sampling date:	19/11/96	Annual rainfall:	205 mm average

Flat. Firm surface, tending self-mulching, no stones.

### Soil Description:

Depth (cm)	Description
0-15	Yellowish red highly calcareous clay loam with moderate granular structure. Clear to:
15-30	Red highly calcareous light clay with moderate polyhedral structure. Clear to:
30-65	Red highly calcareous medium clay with strong polyhedral structure. Gradual to:
65-100	Red massive very highly calcareous medium clay with 10-20% soft carbonate segregations. Diffuse to:
100-150	Red highly calcareous medium clay with moderate polyhedral structure and 20-50% ironstone, quartz and calcrete gravel.



**Classification:** Endohypersodic, Pedal, Calcic Calcarosol; thick, non-gravelly, clay loamy / clayey, deep



## Summary of Properties

**Drainage:** Well drained - the soil is unlikely to remain wet for more than a few days following prolonged rain.

**Fertility:** Natural fertility is high as indicated by the exchangeable cation data.

**pH:** Alkaline at the surface, strongly alkaline with depth.

**Rooting depth:** 150 cm in pit but few roots below 100 cm.

### Barriers to root growth:

**Physical:** None.

**Chemical:** None.

**Waterholding capacity:** Approximately 130 mm in rootzone.

**Seedling emergence:** Good.

### Erosion Potential:

**Water:** Low.

**Wind:** Low.

## Laboratory Data

Depth cm	pH H <sub>2</sub> O	pH CaCl <sub>2</sub>	CO <sub>3</sub> %	EC1:5 dS/m	ECe dS/m	Org.C %	Avail. P mg/kg	Avail. K mg/kg	SO <sub>4</sub> mg/kg	Boron mg/kg	Trace Elements mg/kg (DTPA)				CEC cmol (+)/kg	Exchangeable Cations cmol(+)/kg				ESP
											Cu	Fe	Mn	Zn		Ca	Mg	Na	K	
Paddock	8.5	7.9	6	0.17	0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0-15	8.6	7.9	3	0.15	0.56	-	-	-	-	-	-	-	-	23.3	15.2	3.7	0.70	2.08	3.0	
15-30	8.6	7.9	2	0.16	0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30-65	8.6	7.9	3	0.17	0.43	-	-	-	-	-	-	-	-	27.5	17.1	5.6	1.55	1.68	5.6	
65-100	9.0	7.9	14	0.22	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100-150	9.2	8.1	19	0.27	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**Note:** Paddock sample bulked from cores (0-10 cm) taken around the pit.

CEC (cation exchange capacity) is a measure of the soil's capacity to store and release major nutrient elements.

ESP (exchangeable sodium percentage) is derived by dividing the exchangeable sodium value by the CEC.

**Further information:** [DEWNR Soil and Land Program](#)

