

**Project Name:** CAN  
**Project Code:** CAN **Site ID:** C138 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	H.M. Churchwood	<b>Locality:</b>	Parish Bymue portion 26 450M east of west boundary 1.4KM north of southboundary
<b>Date Desc.:</b>	05/12/56	<b>Elevation:</b>	90 metres
<b>Map Ref.:</b>	Sheet No. : 7527 1:100000	<b>Rainfall:</b>	325
<b>Northing/Long.:</b>	143.383333333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-35.1	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Slightly porous, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Rolling plains <9m 10-32%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Moderately inclined
<b>Slope:</b>	6 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):** Recently cultivated, Firm

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Petrocalcic Red Chromosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solonized brown soil
All necessary analytical data are available.			

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:** Low Strata - Sod grass, , Closed or dense. \*Species includes - Triticum aestivum

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

0 - 0.09 m	Red (2.5YR4/6-Moist); ; Loamy sand; Massive grade of structure; Weak consistence; Field pH 7.6 (pH meter);
0.19 - 0.28 m	Dark red (2.5YR3/6-Moist); , 2.5YR48; Sandy medium clay (Light); Weak grade of structure, 20-50 mm, Platy; Very weak consistence; Field pH 8.7 (pH meter);
0.28 - 0.32 m	Red (2.5YR4/6-Moist); , 2.5YR36; Sandy medium clay (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Very weak consistence; Field pH 9.1 (pH meter);
0.37 - 0.44 m	Red (2.5YR5/8-Moist); , 2.5YR36; , 2.5YR34; Sandy medium clay (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Weakly cemented, Broken, Nodular;
0.44 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Very few (0 - 2 %), Earthy, , Tubules; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented, Broken, Nodular; Field pH 9.7 (pH meter);
0.56 - 0.67 m	Dark red (2.5YR3/6-Moist); , 5YR46; , 5YR56; Sandy medium clay (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Weakly cemented, Broken, Nodular;
0.79 - 0.89 m	Dark red (2.5YR3/6-Moist); , 5YR46; , 10YR63; Sandy medium clay (Light); Weak grade of structure, 20-50 mm, Platy; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Calcrete, Weakly cemented, Broken, Nodular; Field pH 9.9 (pH meter);
0.98 - 1.04 m	Red (2.5YR4/8-Moist); , 5YR54, 0-2% ; , 0-2% ; Sandy medium clay; Weak grade of structure, 20-50 mm, Platy; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Calcrete, Weakly cemented, Broken, Nodular;
1.09 - 1.17 m	Red (2.5YR4/8-Moist); , 5YR54; Sandy medium clay; Weak grade of structure, 20-50 mm, Platy; Very weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented, Broken, Nodular; Field pH 9.7 (pH meter);
1.22 - 1.3 m	Red (2.5YR4/8-Moist); , 7.5YR86; Medium clay (Heavy); Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented, Broken, Nodular;

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- 1.73 - 1.93 m    Red (2.5YR4/6-Moist); , 2.5YR36; Medium clay (Heavy); Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented, Broken, Nodular; Field pH 9.6 (pH meter);
- 1.93 - 2.18 m    Red (2.5YR4/8-Moist); ; Medium clay; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented, Broken, Nodular;
- 2.54 - 2.69 m    Red (2.5YR4/7-Moist); ; Sandy medium clay; Weak consistence; Field pH 8.9 (pH meter);

**Morphological Notes**

**Observation Notes**

LONG SLOPE UP TO LUNETTE RELIC

**Site Notes**

MURRAKOOL

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[illegible]

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**Laboratory Analyses Completed for this profile**

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
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