CAN **Project Name:**

C138 Observation ID: 1 **Project Code:** CAN Site ID:

CSIRO Division of Soils (NSW) Agency Name:

Site Information

H.M. Churchwood Desc. By: Locality: Parish Bymue portion 26 450M east of west boundary

1.4KM north of southboundary

Date Desc.: 05/12/56 Elevation: 90 metres

Sheet No. : 7527 1:100000 Map Ref.: Rainfall: 325

Northing/Long.: 143.383333333333 Runoff: Moderately rapid Easting/Lat.: -35.1 Drainage: Moderately well drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data No Data

Geol. Ref.: No Data **Substrate Material:** Slightly porous, Unconsolidated material

(unidentified)

Land Form

Rel/Slope Class: Rolling plains <9m 10-32% Pattern Type: Plain Morph. Type: Relief: No Data Mid-slope

Elem. Type: Hillslope Slope Category: Moderately inclined Aspect: 270 degrees Slope: 6 %

Surface Soil Condition (dry): Recently cultivated, Firm

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Mottled Petroclcic Red Chromosol N/A **Principal Profile Form:**

ASC Confidence: Great Soil Group: Solonized brown

All necessary analytical data are available. soil

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);

Dark red (2.5YR3/6-Moist); , 2.5YR48; Sandy medium clay (Light); Weak grade of structure, 20-0.19 - 0.28 m

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\ -\ 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;

Dark red (2.5YR3/6-Moist); , 5YR46; , 10YR63; Sandy medium clay (Light); Weak grade of 0.79 - 0.89 m

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;

Red (2.5YR4/8-Moist); , 5YR54; Sandy medium clay; Weak grade of structure, 20-50 mm, Platy; 1.09 - 1.17 m

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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> 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 1.73 - 1.93 m

cemented, Broken, Nodular; Field pH 9.6 (pH meter);

Red (2.5YR4/8-Moist); ; Medium clay; Very weak consistence; Common (10 - 20 %), Calcareous, 1.93 - 2.18 m

, 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

Observation ID: 1

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Agency Name: CSIRO Division of Soils (NSW)

Laboratory	iest Re	suits:										
Depth	рН	1:5 EC	Exc	hangeable	Cations	Ex	changeable	CEC	E	CEC	ESF	P
•	•			Mg	K	Na	Acidity					
m		dS/m				Cmol (+)/	kg				%	
0 000	7.04	0.004										
0 - 0.09	7.6A	0.03A										
0.19 - 0.28	8.7A	0.06A										
0.28 - 0.32 0.37 - 0.44	9.1A	0.09A										
0.37 - 0.44	9.7A	0.387A										
0.56 - 0.67	9.1A	0.301A										
0.79 - 0.89	10A	0.446A										
0.98 - 1.04	10/1	0.440/1										
1.09 - 1.17	9.7A	0.655A										
1.22 - 1.3												
1.73 - 1.93	9.6A	0.863A										
1.93 - 2.18												
2.54 - 2.69	8.9A	1.61A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk	Pa GV		ize Ana FS S	-	•••
m	%	%	mg/kg	г %	%	К %	Density Mg/m3	GV	CS	го о %	ilt Cla	ау
			99			, ,						
0 - 0.09									54D	30	7	11
0.19 - 0.28	0.06A								44D	20	8	27
0.28 - 0.32	0.05A								35D	19	9	36
0.37 - 0.44	5.52A								30D	22	10	37
0.44 - 0.5	9.48A								28D	27	10	35
0.56 - 0.67	10.8A								36D	27	8	30
0.79 - 0.89	2.77A								36D	35	4	25
0.98 - 1.04												
1.09 - 1.17	0.69A								26D	20	3	51
1.22 - 1.3	29.7A								30D	20	10	41
1.73 - 1.93												
1.93 - 2.18											_	
2.54 - 2.69	0.43A	L							34D	30	3	31
Depth	COLE		Grav	/imetric/Vo	lumetric W	ater Conte	ents		K sat	Κu	ınsat	
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/g - m3/m		;			mm/h	m	m/h	
0 - 0.09												
0.19 - 0.28												
0.19 - 0.26												
0.37 - 0.44												
0.44 - 0.5												
0.56 - 0.67												
0.79 - 0.89												

0.56 - 0.67 0.79 - 0.89 0.98 - 1.04 1.09 - 1.17 1.22 - 1.3 1.73 - 1.93 1.93 - 2.18 2.54 - 2.69

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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 pH of 1:5 soil/water suspension
Chloride - 1:5 soil/water extract, automated colour
Clay (%) - Plummet balance 4A1

5A2

P10_PB_C P10_PB_CS P10_PB_FS P10_PB_Z Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance Silt (%) - Plummet balance