Project Name: **Bencubbin land resources survey (Merredin North)**
Project Code: **MDN** **Site ID:** **0327** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Gerard Grealish	**Locality:**	
Date Desc.:	08/08/91	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6571271 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	560867 Datum: AGD84	**Drainage:**	No Data

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Landform

Rel/Slope Class:	No Data	**Pattern Type:**	Peneplain
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	45 degrees

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
Epihypersodic Pedal Hypercalcic Calcarosol

Mapping Unit: N/A
Principal Profile Form: Gc2.22
Great Soil Group: N/A

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.06 m Dark reddish brown (5YR3/2-Moist); ; Loam; Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Firm consistence; Field pH 9.5 (pH meter); Diffuse change to -

A3 0.06 - 0.32 m Reddish brown (5YR4/4-Moist); ; Loam; Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Firm consistence; Field pH 9.5 (pH meter); Diffuse change to -

B21 0.32 - 0.8 m Yellowish red (5YR5/6-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Very firm consistence; 20-50%, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Fragments; Soil matrix is Very highly calcareous; Field pH 9.5 (pH meter);

B22 0.8 - m ; Light clay;

Morphological Notes

A1	25% CLAY
A3	25% CLAY
B21	40% CLAY--GRAVEL: BLACKNODULES-RED INSIDE-SILICA CEMENT?

Observation Notes

Site Notes

Rob McAndrew-paddock 27

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.01 - 0.05	7.8B 8.4H	18B	13E	3.4	3.9	0.28		24B	20.58D	1.17
0.16 - 0.2	8.2B	470B	8.41E	6.58	2.58	5.67		22B	23.24D	25.77

0.56 - 0.6	8.5H 8.4B 8.9H	330B	3.62E	7.26	1.74	6.3		20B	18.92D	31.50	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.01 - 0.05	9C	1.61D		250B							23.8
15.6											
0.16 - 0.2	19C	0.47D		120B							30.5
27.3											
0.56 - 0.6	30C	0.18D		75B							20
36.8											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using Sum of Cations and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)