

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1272 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	01/11/88	Elevation:	No Data
Map Ref.:	Sheet No. : 6629-18 1:10000	Rainfall:	No Data
Northing/Long.:	6216600 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	290390 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Sandy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Gradual change to -
B21	0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; 2.5YR32, 20-50% , 30-mm, Distinct; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach);
B22	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; 2.5YR32, 10-20% , 30-mm, Distinct; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8.5 (Raupach); Abrupt change to -
B23	0.3 - 0.32 m	Red (2.5YR4/6-Moist); ; 2.5YR43, 10-20% , 30-mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (Raupach); Sharp change to -
C1	0.32 - 0.7 m	; Dry; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations;
C1	0.7 - 1 m	; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Diffuse change to -
C2	1 - 1.5 m	; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations;

Morphological Notes

A1	A shallow MC, gradational - uniform profile. Mollic A1? Shallow solum.
B21	High sorptive clays in B, quite light to texture.
C1	Sharp break from B to C. C is pale carbonate. C1 colour is cream and brown bands.
C2	C2 colour is cream.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.32
0.32 - 0.7
0.7 - 1
1 - 1.5

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.32
0.32 - 0.7
0.7 - 1
1 - 1.5

[illegible]

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.32
0.32 - 0.7
0.7 - 1
1 - 1.5

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Laboratory Analyses Completed for this profile