

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1276 **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.:	6216540 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	290250 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 (5YR3/4-Moist); ; Clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Strong consistence; Field pH 6 (Raupach); Sharp change to -
B21	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to -
B22	0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 8 (Raupach);
B22	0.3 - 0.4 m	Red (2.5YR4/6-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 8 (Raupach); Clear change to -
B31	0.4 - 0.5 m	Red (2.5YR5/6-Moist); ; 2.5YR54, 20-50% , 30-mm, Faint; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);
B32	0.5 - 0.7 m	Reddish yellow (5YR6/6-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, angular platy, undisturbed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach); Gradual change to -
BC	0.7 - 1.3 m	Reddish yellow (5YR6/6-Moist); ; Heavy clay; Massive grade of structure; Rough-ped fabric; Many (20 - 50 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach); Gradual change to -
	1.3 - m	; Massive grade of structure;

Morphological Notes

A1	Shallow, tough and degraded A1 (eroded?). No high carbonate layer.
B22	Massive very pedal B22 - sodic and high boron? Very low sorptivity and no swelling in the tough and shiny B2.
BC	WFS is pale at depth (not the gun-barrel grey of other locations).

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Observation 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 Cmol (+)/kg	Acidity	%
0 - 0.1	7.16C 7.36A	0.25A						
0.1 - 0.2	7.03C 7.49A	0.19A						
0.2 - 0.3	7.9C 8.5A	0.32A						
0.3 - 0.4								
0.4 - 0.5	8.19C 9.04A	0.47A						
0.5 - 0.7	8.49C 9.18A	0.84A						
0.7 - 1.3								
1.3 -								

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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour