

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1251 **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.:	6216570 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289380 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

A11	0 - 0.05 m	Dark brown (7.5YR3/3-Moist); ; Silty clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; Field pH 7 (Raupach); Clear change to -
A12	0.05 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach); Clear change to -
A21	0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); Yellowish red (5YR5/6-Dry); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Dry; Firm consistence; Field pH 7.5 (Raupach); Clear change to -
A22	0.2 - 0.3 m	Yellowish red (5YR3/6-Moist); Reddish yellow (5YR6/6-Dry); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Field pH 7.5 (Raupach);
A22	0.3 - 0.35 m	Yellowish red (5YR3/6-Moist); Reddish yellow (5YR6/6-Dry); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Field pH 7.5 (Raupach); Abrupt change to -
B21	0.35 - 0.4 m	Red (2.5YR4/6-Moist); ; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8 (Raupach);
B21	0.4 - 0.5 m	Red (2.5YR4/6-Moist); ; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8 (Raupach); Abrupt change to -
B22	0.5 - 0.6 m	Red (2.5YR5/6-Moist); ; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach); Clear change to -
B3	0.6 - 0.9 m	Brown (7.5YR5/4-Moist); ; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (Raupach);
B3	0.9 - 1.2 m	Brown (7.5YR5/4-Moist); ; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (Raupach); Clear change to -

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D 1.2 - m ;

Morphological Notes

A11 The A1 does not appear to fit, it is mollic and overlies a much lighter dilatant A2.

A12 The A1/A2 is thick and contrasts with the textured B2.

B21 The B2 is very red and overlies the typical carbonate rich, slimey, tough and apparently sodic B3. No evidence of segregations.

B3 Overlies Woolshed Flat Shale (WFS) at 120cm.

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	Acidity		%
						Cmol (+)/kg			

0 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.35
0.35 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.9
0.9 - 1.2
1.2 -

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 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.35
0.35 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.9
0.9 - 1.2
1.2 -

[illegible]

0 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.35
0.35 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.9
0.9 - 1.2
1.2 -

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Laboratory Analyses Completed for this profile