

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1265 **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.:	6217000 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289940 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 - 0.1 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; Field pH 6 (Raupach);
A12	0.1 - 0.2 m	Reddish brown (5YR4/3-Moist); ; 5YR56, 20-50% , 15-30mm, Distinct; Sandy clay loam, fine sandy; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Field pH 7 (Raupach); Clear change to -
A2	0.2 - 0.3 m	Reddish brown (5YR5/4-Moist); Pink (5YR7/4-Dry); ; 5YR43, 20-50% , 15-30mm, Distinct; Fine sandy loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Field pH 7 (Raupach);
A2	0.3 - 0.32 m	Reddish brown (5YR5/4-Moist); Pink (5YR7/4-Dry); ; 5YR43, 20-50% , 15-30mm, Distinct; Fine sandy loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Field pH 7 (Raupach); Abrupt change to -
B21	0.32 - 0.4 m	Reddish brown (2.5YR4/3-Moist); ; 2.5YR44, 20-50% , 15-30mm, Distinct; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Field pH 7.5 (Raupach);
B21	0.4 - 0.5 m	Reddish brown (2.5YR4/3-Moist); ; 2.5YR44, 20-50% , 15-30mm, Distinct; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Field pH 7.5 (Raupach);
B21	0.5 - 0.65 m	Reddish brown (2.5YR4/3-Moist); ; 2.5YR44, 20-50% , 15-30mm, Distinct; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 7.5 (Raupach); Clear change to -
B22	0.65 - 0.8 m	Yellowish red (5YR4/6-Moist); ; 2.5YR44, 20-50% , 15-30mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (Raupach); Abrupt change to -
2B21	0.8 - 1 m	Brown (7.5YR4/4-Moist); ; 5YR46, 20-50% , 15-30mm, Distinct; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach);

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2B21	1 - 1.1 m	Brown (7.5YR4/4-Moist); , 5YR46, 20-50% , 15-30mm, Distinct; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach);
2B22	1.1 - 1.25 m	Red (2.5YR4/6-Moist); ; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 20-50%, cobbly, 60-200mm, angular platy, stratified, Shale, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach); Clear change to -
3B	1.25 - 1.4 m	Pale brown (10YR6/3-Moist); , 7.5YR64, 20-50% , 15-30mm, Distinct; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 2-10%, coarse gravelly, 20-60mm, angular, dispersed, Shale, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach);
3B	1.4 - 1.6 m	, 7.5YR64, 20-50% , 15-30mm, Distinct; Sandy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 20-50%, cobbly, 60-200mm, angular platy, undisturbed, Shale, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach); Clear change to -
R	1.6 - m	Rock

Morphological Notes

A11	A complex polygenetic profile. The A1 is thick, pale and light textured.
B21	The B has a massive very pedal appearance despite having a fair amount of clay.
B22	The B22 has infilled carbonate rich channels. Drab mottled sandy clays at depth.
3B	Minor quartz with red coating in horizon 3B, eventually overlying WFS.

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 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.32
0.32 - 0.4
0.4 - 0.5
0.5 - 0.65
0.65 - 0.8
0.8 - 1
1 - 1.1
1.1 - 1.25
1.25 - 1.4
1.4 - 1.6
1.6 -

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 - 0.4
0.4 - 0.5
0.5 - 0.65
0.65 - 0.8
0.8 - 1
1 - 1.1
1.1 - 1.25
1.25 - 1.4
1.4 - 1.6
1.6 -

[illegible]

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.32
0.32 - 0.4
0.4 - 0.5
0.5 - 0.65
0.65 - 0.8
0.8 - 1
1 - 1.1
1.1 - 1.25
1.25 - 1.4
1.4 - 1.6
1.6 -

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Laboratory Analyses Completed for this profile