

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1233 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	27/10/88	Elevation:	301 metres
Map Ref.:	Sheet No. : 6629-18 1:10000	Rainfall:	No Data
Northing/Long.:	6215960 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289290 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	0.5 m deep, Slightly porous, Shale

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.12
		Great Soil Group:	Non-calcic brown soil

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/4-Moist); Dark brown (7.5YR3/4-Moist); ; Fine sandy loam; Massive grade of structure; Rough-ped fabric; Dry; Firm consistence; Slightly plastic; Field pH 5.5 (Raupach);
A11	0.1 - 0.12 m	Dark brown (7.5YR3/4-Moist); ; Fine sandy loam; Massive grade of structure; Rough-ped fabric; Dry; Firm consistence; Slightly plastic; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
A12	0.12 - 0.2 m	Dark brown (7.5YR3/4-Moist); , 5YR43, 20-50% , 0-5mm, Faint; Loam; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Moderately plastic; 10-20%, coarse fragments; Field pH 6.5 (Raupach); Abrupt, Smooth change to -
B21	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Very plastic; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach);
B21	0.3 - 0.4 m	Dark red (2.5YR3/5-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Very plastic; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach); Gradual, Smooth change to -
B22	0.4 - 0.5 m	Dark reddish brown (2.5YR3/4-Moist); , 2.5YR44, 20-50% , 0-5mm, Faint; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Very plastic; 2-10%, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Abrupt, Smooth change to -
C	0.5 - 0.7 m	; Dry;
C	0.7 - 0.9 m	; Dry;

Morphological Notes

A11	Profile: No carbonates except in the weathered shale.
A12	very faint mottles
C	In C horizon there are: banded grey, yellow and cream WFS, carbonate bands, laminated and partially weathered 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 - 0.12
0.12 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 0.9

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 - 0.12
0.12 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 0.9

[illegible]

0 - 0.1
0.1 - 0.12
0.12 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 0.9

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Laboratory Analyses Completed for this profile