

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1244 **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.:	6216560 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289650 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 - 0.06 m	Dark reddish brown (5YR3/4-Moist); ; Loamy fine sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; Field pH 6 (Raupach); Clear, Smooth change to -
A12	0.06 - 0.1 m	Reddish brown (5YR4/4-Moist); Light reddish brown (5YR6/4-Dry); , 10-20% , 15-30mm, Faint; Loamy fine sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 6 (Raupach);
A12	0.1 - 0.17 m	Reddish brown (5YR4/4-Moist); ; Loamy fine sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, rounded platy, undisturbed, Shale, coarse fragments; Field pH 6 (Raupach); Sharp, Smooth change to -
B21	0.17 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach);
B21	0.2 - 0.3 m	Dark reddish brown (5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear, Smooth change to -
B22	0.3 - 0.4 m	Yellowish red (5YR3/5-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach);
B22	0.4 - 0.5 m	Yellowish red (5YR3/5-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach); Clear, Smooth change to -
B23	0.5 - 0.57 m	Yellowish red (5YR3/5-Moist); , 5YR32, 20-50% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 10-20%, coarse gravelly, 20-60mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8.5 (Raupach); Abrupt, Smooth change to -

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B3k	0.57 - 0.62 m	Yellowish red (5YR3/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 20-50%, coarse gravelly, 20-60mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8.5 (Raupach); Abrupt, Smooth change to -
C	0.62 - 2.2 m	; Clear, Smooth change to -
R	2.2 - m	Rock

Morphological Notes

A11	Clear duplex soil.
A12	C. Fragments in the A12. Faint pale mottling.
B21	The B horizon differs from sites A1233 to A1240(?) because it is much tougher, less well structured and less reactive. Very faint, complex mottles associated with the fabric.
B21	The clay does not sorb like earlier examples and has a tough and shiny texture.
B23	Mottles appear to be organic rich (?) old roots and worm casts present.
B3k	The carbonate profile is noticeable. The C horizon has numerous grey (unweathered), yellow (weathered) and cream bands (carbonate) to depth.

Observation Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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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