

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1243 **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.:	6216730 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289590 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	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Sandy clay loam, fine sandy; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, rounded platy, undisturbed, Shale, coarse fragments; Field pH 6.5 (Raupach); Clear, Smooth change to -
A12	0.1 - 0.14 m	Reddish brown (5YR4/4-Moist); Brown (7.5YR5/4-Dry); , 0-0% ; Sandy clay loam, fine sandy; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 6.5 (Raupach); Abrupt, Smooth change to -
B21	0.14 - 0.2 m	Reddish brown (2.5YR4/4-Moist); , 0-0% ; Medium heavy 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; Field pH 7 (Raupach);
B21	0.2 - 0.3 m	Reddish brown (2.5YR4/4-Moist); , 0-0% ; Medium heavy 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; Field pH 7 (Raupach); Clear, Smooth change to -
B22	0.3 - 0.4 m	Reddish brown (2.5YR5/4-Moist); , 0-0% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Field pH 8 (Raupach); Gradual, Smooth change to -
B23	0.4 - 0.5 m	Reddish brown (2.5YR5/4-Moist); , 0-0% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; Field pH 8 (Raupach); Clear, Smooth change to -
B3	0.5 - 0.65 m	Reddish brown (2.5YR4/4-Moist); , 0-0% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 50-90%, coarse gravelly, 20-60mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.5 (Raupach); Abrupt, Smooth change to -
C	0.65 - 1 m	, 0-0% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Clear, Smooth change to -
R	1 - m	Rock

Morphological Notes

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A11 Profile: Carbonate profile is unusual, no carbonate in the solum.
B23 Mottle: faint dark infills from cracking.
C The interlayered carbonate bands in the shale are highly effervescent. The horizontal bedding probably precludes leaching of the C, either vertically or laterally.

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