

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1284 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	01/06/89	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.:	289900 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); Reddish brown (5YR5/4-Dry); ; Sandy clay loam, fine sandy; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Field pH 6.5 (Raupach); Gradual change to -
A12	0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); Light reddish brown (5YR6/4-Dry); ; Sandy clay loam, fine sandy; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Field pH 7 (Raupach); Gradual change to -
A3	0.2 - 0.3 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Field pH 6.5 (Raupach); Clear change to -
B1	0.3 - 0.4 m	Dark reddish brown (5YR3/4-Moist); , 5YR32; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Field pH 6.5 (Raupach); Clear change to -
B21	0.4 - 0.5 m	Dusky red (2.5YR3/2-Moist); , 2.5YR34, 20-50% , 30-mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach);
B21	0.5 - 0.6 m	Dusky red (2.5YR3/2-Moist); , 2.5YR32, 20-50% , 30-mm, Distinct; Medium heavy clay; Moderate grade of structure, Angular blocky; Rough-ped fabric; Dry; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Gradual change to -
B22	0.6 - 0.87 m	Dark reddish brown (5YR3/2-Moist); , 5YR33, 20-50% , 30-mm, Prominent; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach); Abrupt change to -
B31	0.87 - 1.1 m	Reddish yellow (7.5YR6/6-Moist); , 7.5YR76, 20-50% , 30-mm, Distinct; Medium heavy clay; Rough-ped fabric; Dry; Few cutans, <10% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach); Gradual change to -
B32	1.1 - 1.4 m	Pale brown (10YR6/3-Moist); , 7.5YR54, 20-50% , 30-mm, Distinct; Medium heavy clay; Rough-ped fabric; Dry; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach); Diffuse change to -
B33	1.4 - 1.8 m	Brown (7.5YR5/4-Moist); ; Rough-ped fabric; Dry; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, , ; Field pH 9 (Raupach); Diffuse change to -

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B34	1.8 - 2.25 m	Reddish brown (5YR5/4-Moist); , 7.5YR52, 20-50% , 30-mm, Distinct; Medium heavy clay; Rough-ped fabric; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, , ; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (Raupach); Gradual change to -
B41	2.25 - 2.6 m	Reddish brown (5YR5/4-Moist); , 7.5YR64, 20-50% , 30-mm, Faint; Sandy clay; Earthy fabric; 2-10%, medium gravelly, 6-20mm, subangular tabular, dispersed, Shells, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (Raupach); Diffuse change to -
B42	2.6 - 3 m	Brown (7.5YR5/4-Moist); ; Sandy clay; Earthy fabric; 2-10%, medium gravelly, 6-20mm, subangular tabular, dispersed, Shells, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (Raupach);

Morphological Notes

A11	A dark red-brown earth overlying several(?) distinct layers.
B1	The B1 and B21 have a moderately high sorptivity and the B22 has very clear dark red-brown cutans. Mottles are due to mixing. It is uncertain as to whether this is a B1
B21	B21 mottles = coatings
B31	Carbonate profile peaks in the B31 and then drops off. The B4 is free of carbonate and has an earthy appearance - probably an aquifer.
B34	Sandstone/shale (siliceous in appearance).
B41	There is a difference in sand size in the B4 compared with the above and some siliceous CFS. (what source?)

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile