

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1283 **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.:	289830 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 (5YR4/3-Moist); Brown (7.5YR5/4-Dry); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 7 (Raupach); Gradual change to -
A12	0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Strong consistence; Field pH 7 (Raupach); Gradual change to -
A13	0.2 - 0.3 m	Reddish brown (5YR4/3-Moist); Reddish brown (5YR5/4-Dry); ; Clay loam, fine sandy; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Strong consistence; Field pH 7.5 (Raupach);
A13	0.3 - 0.4 m	Dark reddish brown (5YR3/3-Moist); ; 5YR44, 20-50% , 15-30mm, Faint; Clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Strong consistence; Field pH 7.5 (Raupach); Abrupt change to -
B21	0.4 - 0.47 m	Reddish brown (5YR4/4-Moist); ; 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; Field pH 8.5 (Raupach); Clear change to -
B22	0.47 - 0.5 m	Dark reddish brown (5YR3/4-Moist); ; 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; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (Raupach);
B22	0.5 - 0.58 m	Dark reddish brown (5YR3/4-Moist); ; 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; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (Raupach); Clear change to -
B3	0.58 - 0.8 m	Yellowish brown (10YR5/4-Moist); , 20-50% , 5-15mm, Faint; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; 20-50%, cobbly, 60-200mm, angular platy, undisturbed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 9.5 (Raupach); Diffuse change to -

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BC 0.8 - 1 m ; Rough-ped fabric; Dry; Very strong consistence; 50-90%, cobbly, 60-200mm, angular platy, undisturbed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 9.5 (Raupach); Gradual change to -

R 1 - m Rock

Morphological Notes

A13 mottle due to mixing
B21 Structure is uncertain.
B22 Structure is uncertain.
B22 Structure is uncertain.
B3 Structure is uncertain.
Mottle colour in the reddish range.
BC Colour - white, brown, red-brown. Carbonate, shale, clay.
R Woolshed Flat Shale.

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 - 0.4
0.4 - 0.47
0.47 - 0.5
0.5 - 0.58
0.58 - 0.8
0.8 - 1
1 -

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 - 0.4
0.4 - 0.47
0.47 - 0.5
0.5 - 0.58
0.58 - 0.8
0.8 - 1
1 -

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.47
0.47 - 0.5
0.5 - 0.58
0.58 - 0.8
0.8 - 1
1 -

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Laboratory Analyses Completed for this profile