

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1262 **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.:	6217100 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289380 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 brown (7.5YR3/4-Moist); ; Clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded tabular, dispersed, Shale, coarse fragments; Field pH 7 (Raupach); Abrupt change to -
A12	0.1 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded tabular, dispersed, coarse fragments; Field pH 7 (Raupach); Abrupt change to -
B21	0.15 - 0.2 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach);
B21	0.2 - 0.3 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach);
B21	0.3 - 0.4 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach); Clear change to -
B22	0.4 - 0.5 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 50-90%, angular platy, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8 (Raupach);
B22	0.5 - 0.7 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 50-90%, angular platy, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8 (Raupach); Gradual change to -
BC	0.7 - 1.1 m	Yellowish red (5YR4/6-Moist); , 20-50% , 30-mm, Prominent; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; 50-90%, angular platy, stratified, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated; Many (20 - 50 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach); Gradual change to -

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C 1.1 - 1.5 m ; Rough-ped fabric; 50-90%, angular platy, stratified, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 9 (Raupach); Diffuse change to -

R 1.5 - m Rock

Morphological Notes

A11 Common to upper-slopes and crests. RBE into WFS.

B21 The B2 has a moderate to low sorptivity.

BC The yellower BC is similar to many other B3's in the catchment - tough and carbonate rich. The 5yr46 colour is in bands and its mottles are red, grey and white.

C C is complex with clay, carbonate and fresh rock bands.

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 - 0.15
0.15 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 1.1
1.1 - 1.5
1.5 -

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 - 0.15
0.15 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 1.1
1.1 - 1.5
1.5 -

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

0 - 0.1
0.1 - 0.15
0.15 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 - 1.1
1.1 - 1.5
1.5 -

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Laboratory Analyses Completed for this profile