

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1273 **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.: 6216440 AMG zone: 54	Runoff: No Data
Easting/Lat.: 290430 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: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: N/A
	Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded tabular, dispersed, Shale, coarse fragments; Field pH 6.5 (Raupach); Clear change to -
A12	0.1 - 0.13 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, rounded tabular, dispersed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7 (Raupach); Abrupt change to -
B21	0.13 - 0.2 m	Dark reddish brown (2.5YR3/3-Moist); ; 2.5YR36, 20-50% , 30-mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach);
B21	0.2 - 0.3 m	Dark reddish brown (2.5YR3/3-Moist); ; 2.5YR36, 20-50% , 30-mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach); Abrupt change to -
B22	0.3 - 0.4 m	Dark reddish brown (2.5YR3/3-Moist); ; 2.5YR46, 20-50% , 30-mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach); Clear change to -
BC	0.4 - 0.5 m	Reddish yellow (5YR7/6-Moist); ; 2.5YR46; 2-10%, medium gravelly, 6-20mm, angular platy, undisturbed, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Field pH 8.5 (Raupach); Gradual change to -
C	0.5 - 0.7 m	; Dry; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Sharp change to -
R	0.7 - m	Rock

Morphological Notes

A1	A shallow red duplex with a NRT and absence of carbonate in the B.
B21	The B has a moderate sorptivity and does not swell noticeably when wetted. The B2 mottles are coatings.
BC	The colour is pale yellow/orange. The BC mottles are carbonate. The coatings of clay/OM may reduce the swelling.

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C Into carbonate rich WFS at 70cm.

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 - 0.13
0.13 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 -

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 - 0.13
0.13 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 -

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 - 0.13
0.13 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.7
0.7 -

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Laboratory Analyses Completed for this profile