

**Project Name:** Rhynie Soil Survey  
**Project Code:** Rhynie **Site ID:** A1255 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

<b>Desc. By:</b>	N.J. McKenzie	<b>Locality:</b>	
<b>Date Desc.:</b>	01/11/88	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 6629-18 1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6216670 AMG zone: 54	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	289050 Datum: AGD66	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	N/A
		<b>Great Soil Group:</b>	N/A

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; 2-10%, coarse gravelly, 20-60mm, angular tabular, reoriented, Shale, coarse fragments; Field pH 5.5 (Raupach); Gradual change to -
A12	0.1 - 0.2 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; 90-100%, cobbly, 60-200mm, angular tabular, stratified, Shale, coarse fragments; Field pH 6 (Raupach); Gradual change to -
B1	0.2 - 0.3 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; 50-90%, cobbly, 60-200mm, angular tabular, stratified, Shale, coarse fragments; Field pH 6 (Raupach);
B21	0.3 - 0.4 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; 50-90%, cobbly, 60-200mm, angular tabular, stratified, Shale, coarse fragments; Field pH 8.5 (Raupach); Gradual change to -
B22	0.4 - 0.5 m	Reddish brown (2.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; 50-90%, cobbly, 60-200mm, angular tabular, stratified, Shale, coarse fragments; Field pH 8.5 (Raupach); Clear change to -
DR	0.5 - m	;

#### Morphological Notes

A11	A very rocky lithosol with apparent duplex morphology. Much of the core is unweathered WFS. No carbonate. Carbonate contrast with adjacent upper slope is pretty enormous.
A12	Remarkable pH profile - high organic matter in A1 confers low pH and minor water repellance.
B22	The B22 is very tough and dense - very low sorptivity and hard to texture.

#### 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 - 0.5  
0.5 -

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 - 0.2  
0.2 - 0.3  
0.3 - 0.4  
0.4 - 0.5  
0.5 -

[illegible]

0 - 0.1  
0.1 - 0.2  
0.2 - 0.3  
0.3 - 0.4  
0.4 - 0.5  
0.5 -

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Laboratory Analyses Completed for this profile