Project Name: **Rhynie Soil Survey**
Project Code: **Rhynie** **Site ID:** **A1261** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: N.J. McKenzie
Date Desc.: 01/11/88
Map Ref.: Sheet No. : 6629-18 1:10000
Northing/Long.: 6217140 AMG zone: 54
Easting/Lat.: 289530 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Silty loam; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded tabular, dispersed, Shale, coarse fragments; Field pH 7 (Raupach); Clear change to -
B1	0.1 - 0.2 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Sandy clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, subrounded tabular, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to -
B21	0.2 - 0.3 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to -
B22	0.3 - 0.4 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 10-20%, coarse gravelly, 20-60mm, angular platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach);
B22	0.4 - 0.5 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 20-50%, cobbly, 60-200mm, angular platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to -
B3	0.5 - 0.6 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 50-90%, cobbly, 60-200mm, angular platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8 (Raupach); Clear change to -
R	0.6 - m	Rock

Morphological Notes

A1	Very silty A1. Moderate sand but no visible swelling. Appears to be a lot of Organic Matter throughout the profile (dark coatings evident).
B21	Veery rocky profile with a difficult B2 for description due to intercepted rock.
B3	Neutral SRT and no carbonate except for banding in the PM.

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.18C 6.54A	0.2A								
0.1 - 0.2	6.68C 6.83A	0.15A								
0.2 - 0.3	5.99C 6.46A	0.08A								
0.3 - 0.4	7.36C 7.61A	0.24A								
0.4 - 0.5										
0.5 - 0.6	7.82C 8.25A	0.19A								
0.6 -										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								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 - 0.6												
0.6 -												

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 - 0.5										
0.5 - 0.6										
0.6 -										

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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour