

**Project Name:** Rhynie Soil Survey  
**Project Code:** Rhynie **Site ID:** A1241 **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>	6216240 AMG zone: 54	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	289080 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>		<b>Mapping Unit:</b>	N/A
N/A		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; 10-20%, coarse gravelly, 20-60mm, subrounded tabular, reoriented, Shale, coarse fragments; Field pH 7 (Raupach);
A1	0.1 - 0.15 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; Field pH 7 (Raupach); Sharp, Smooth change to -
B11	0.15 - 0.2 m	Dark reddish brown (5YR2/2-Moist); , 0-0% ; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach);
B11	0.2 - 0.24 m	Dark reddish brown (5YR2/2-Moist); , 0-0% ; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach); Abrupt, Smooth change to -
B12	0.24 - 0.3 m	Dark reddish brown (5YR2/2-Moist); , 5YR43, 10-20% , 15-30mm, Faint; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Dry; Strong consistence; 90-100%, cobbly, 60-200mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach);
B12	0.3 - 0.38 m	Dark reddish brown (5YR2/2-Moist); , 5YR43, 10-20% , 15-30mm, Faint; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Dry; Strong consistence; 90-100%, cobbly, 60-200mm, rounded platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Abrupt, Smooth change to -
B21	0.38 - 0.4 m	Dusky red (10R3/4-Moist); , 5YR32, 20-50% , 15-30mm, Distinct; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach);
B21	0.4 - 0.5 m	Dusky red (10R3/4-Moist); , 5YR32, 20-50% , 15-30mm, Distinct; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach); Abrupt, Smooth change to -
R	0.5 - m	Rock

#### Morphological Notes

A1	A neutral, carbonate free profile. A friable and organic rich A1 horizon (very dark in colour).
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B11      B1/A3(?) is also very dark in colour.  
B12      The large shale floater over the B2 is virtually unweathered and has a characteristic skin  
         of very dark red brown clay around it.  
B21      A red, again almost subplastic B2. Water is sorbed very easily here and working the  
         bolus to a LMC takes very little time. It eventually reaches MHC-HC after working with  
         more water.

**Observation Notes**

**Site Notes**

Shallow profile from crest next to pit

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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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