

**Project Name:** Rhynie Soil Survey  
**Project Code:** Rhynie **Site ID:** A1274 **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>	6216290 AMG zone: 54	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	290450 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 (5YR3/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Field pH 6 (Raupach);
A11	0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Field pH 6 (Raupach);
A11	0.2 - 0.3 m	Dark reddish brown (5YR3/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Field pH 6 (Raupach);
A12	0.3 - 0.4 m	Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Field pH 6.5 (Raupach); Clear change to -
2A1	0.4 - 0.45 m	Yellowish red (5YR4/6-Moist); Pink (5YR7/4-Dry); ; Loam; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Field pH 7 (Raupach); Clear change to -
2A2	0.45 - 0.5 m	Yellowish red (5YR4/6-Moist); Pink (5YR7/4-Dry); ; 5YR43, 10-20% , 30-mm, Distinct; Loam; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach);
2A2	0.5 - 0.55 m	Yellowish red (5YR4/6-Moist); Pink (5YR7/3-Dry); ; 5YR56, 20-50% , 30-mm, Distinct; Loam; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach); Abrupt change to -
2B21	0.55 - 0.65 m	Red (10R4/6-Moist); ; 2.5YR72, 20-50% , 30-mm, Prominent; ; 2.5YR54; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8 (Raupach); Clear change to -
2B22	0.65 - 0.85 m	Red (10R4/6-Moist); ; 2.5YR31, 20-50% , 30-mm, Prominent; ; 2.5YR54; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8.5 (Raupach); Clear change to -
2B31	0.85 - 1.2 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.5 (Raupach); Gradual change to -

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2B32	1.2 - 1.4 m	Reddish brown (2.5YR4/4-Moist); , 2.5YR46, 20-50% , 15-30mm, Faint; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 9 (Raupach); Gradual change to -
2B33	1.4 - 1.5 m	Reddish brown (5YR4/4-Moist); , 5YR66, 20-50% , 30-mm, Faint; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very strong consistence; 10-20%, coarse gravelly, 20-60mm, angular tabular, dispersed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach); Clear change to -
3B21	1.5 - 1.8 m	Reddish yellow (5YR6/6-Moist); , 2.5YR46, 10-20% , 15-30mm, Prominent; Medium heavy clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9 (Raupach); Clear change to -
3B22	1.8 - 2 m	Light red (2.5YR6/6-Moist); , 0-0% ; Medium heavy clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);

#### **Morphological Notes**

A11	Complex layered profile - expected for the location. Carbonate is absent to a depth. Difficult to separate textures of clay layers. Low sorptivity throughout.
2A2	2A2 colour is clearly mottled but the munsell doesn't reflect this too clearly - sporadic bleaching of 5yr73. 2A2 appears to be indurated (Si?).
2B21	2B21 colour - very dark Mn(?) coatings (1mm thick) along planar voids. Extremely prominent.
2B22	Deeper layers slake noticeably.

#### **Observation Notes**

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Laboratory Analyses Completed for this profile