Project	Name: Code: Name:	Rhynie So Rhynie CSIRO Di <sup>s</sup>	bil Survey Site ID: vision of Soils (S/	A1275 A)	Observati	on ID:	1		
Site Inf	ormation	l							
Easting/	sc.: f.: g/Long.: /Lat.:	N.J. McKenzi 01/11/88 Sheet No. : 60 6216430 AM0 290220 Date	629-18 1:10000 G zone: 54	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data No Data No Data				
<u>Geolog</u> Exposu Geol. Re	reType:	Undisturbed s	soil core	Conf. Sub. is Parent. Mat.: No D Substrate Material: No D					
Morph. Elem. Ty Slope:	be Class: Type: ype:	No Data No Data No Data %		Pattern Type: Relief: Slope Category Aspect:	No Data No Data y: No Data No Data				
Surface	e Soil Co	ndition (dry	<u>):</u>						
Erosior									
Soil Cla	assification	<u>on</u>							
N/A ASC Co	onfidence:	assification: ot specified		Mapping Unit: N/A Principal Profile Form: N/A Great Soil Group: N/A					
	sturbance								
<u>Vegetat</u> Surface		Fragments	<u>.</u>						
Profile	Morphole	<u>vpc</u>							
A1 0 - 0.1 m Dark reddish brown (5YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 10-20 m Subangular blocky; Rough-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped face or walls coated, distinct; Field pH 8 (Raupach); Gradual change to -							w cutans, <10% of ped faces		
B21	0.1 - 0.2 n	Polyhe		oric; Dry; Strong c	onsistence; N	lany cuta	ade of structure, 5-10 mm, ns, >50% of ped faces or -		
B22	0.2 - 0.3 n	grade of structure, 5-10 mm		/3-Moist); , 5YR43, 20-50% , 15-30mm, Faint; Medium clay; Strong n, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many or walls coated, prominent; Field pH 8 (Raupach);					
B22	0.3 - 0.35	Strong Many o	Dark reddish brown (5YR3/3-Moist); , 5YR43, 20-50% , 15-30mm, Distinct; Medium he Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong cons Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8 (Raupach); A change to -			c; Dry; Strong consistence;			
B3	0.35 - 0.4 m Reddish brown (5YR4/4-Moist); , 5YR32, 20-50% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (Raupach); Clear change to -								
B41k	0.4 - 0.5 n	Pink (7.5YR8/4-Moist); ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry Strong consistence; Field pH 8.5 (Raupach); Gradual change to -				cture; Rough-ped fabric; Dry;			
B42k	0.5 - 0.8 n	n Reddish yellow (5YR7/6-Moist); ; Medium heavy clay; Massive grade of structure; Rough-pe fabric; Dry; Strong consistence; Field pH 8.5 (Raupach); Gradual change to -							
B43k	0.8 - 1.46		sh yellow (5YR7/6-Mo Dry; Strong consister				le of structure; Rough-ped inge to -		
2B	1.46 - 1.8	3 m Light red (2.5YR6/6-Moist); , 10YR63, 20-50% , 30-mm, Prominent; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 8.5 (Raupach);							
Morphological Notes   A1 A shallow black earth overlying a thick carbonate which then gives way to a HC buried layer. A1 a bit harder to manipulate (OM?) and degraded structure.									

Project Name:	Rhynie Soil Survey								
Project Code: Agency Name:	Rhynie	Site ID: sion of Soils (S	A1275	Observation ID: 1					
Agency Mame.	CSIKO DIVIS		DA)						
B21	The B2 sc	orbs and swells e	normously - hig	h heat of wetting.					
B22	B22 and E	33 mottles = coat	ings.	-					
B41k	High sorptivity clays transform to a fine moist crumb when moistened.								
2B	pale carbo	onate present.							

## **Observation Notes**

### Site Notes

Project Name:	Rhynie Soil	Survey			
Project Code:	Rhynie	Site ID:	A1275	Observation ID:	1
Agency Name:	CSIRO Divis	sion of Soils (S	5A)		

### Laboratory Test Results:

Laboratory	Test Re	suits.											
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na		angeable cidity	CEC		ECEC		ESP
m		dS/m		5		Cmol							%
0 - 0.1	7.24C 7.52A	0.19A											
0.1 - 0.2	6.99C 7.45A	0.1A											
0.2 - 0.3	7.42C 7.72A	0.15A											
0.3 - 0.35													
0.35 - 0.4	7.63C 8A	0.17A											
0.4 - 0.5	7.63C 8.01A	0.17A											
0.5 - 0.8	7.76C 8.3A	0.14A											
0.8 - 1.46	7.78C 8.26A	0.15A											
1.46 - 1.8	7.97C 8.27A	0.17A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Toi K		Bulk	Pa GV	rticle CS	Size FS	Analys	
m	%	%	Р mg/kg	P %	N %	%		Density Mg/m3	Gv	63	гз %	Siit	Clay
$\begin{array}{c} 0 - 0.1 \\ 0.1 - 0.2 \\ 0.2 - 0.3 \\ 0.3 - 0.35 \\ 0.35 - 0.4 \\ 0.4 - 0.5 \\ 0.5 - 0.8 \\ 0.8 - 1.46 \\ 1.46 - 1.8 \end{array}$													
Depth	COLE	<b>0</b> .7		/imetric/Vo						K s	at	K uns	at
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5	Bar 15	Bar	mm	/h	mm/ł	ı

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.2 - 0.3 0.3 - 0.35 0.35 - 0.4 0.4 - 0.5 0.5 - 0.8 0.8 - 1.46 1.46 - 1.8

# Project Name:Rhynie Soil SurveyProject Code:RhynieSite ID:Agency Name:CSIRO Division of Soils (SA)

### 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

#### Observation ID: 1