Project Name: Project Code: Agency Name:	Rhynie Soil Survey Rhynie Site ID: CSIRO Division of Soils (S		servation ID:	1
Site Information	า			
Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	N.J. McKenzie 01/11/88 Sheet No. : 6629-18 1:10000 6216400 AMG zone: 54 289710 Datum: AGD66	Rainfall: Runoff:	No Data No Data No Data No Data	
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Paren Substrate Material:		
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co Erosion:	No Data No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Soil Classificat	ion			
Australian Soil C N/A ASC Confidence Confidence level Site Disturbanc	assification: : not specified	•	g Unit: al Profile Form: oil Group:	N/A N/A N/A
Vegetation:				
Surface Coarse				
Profile Morphol				
A1 0 - 0.06 r	n Dark reddish brown (5YR3 Subangular blocky; Rough			
A2 0.06 - 0.1	m Reddish brown (5YR4/4-M fabric; Dry; Field pH 7.5 (-Dry); ; Loam; Ma	ssive grade of structure; Earthy
A2 0.1 - 0.14	m Reddish brown (5YR4/4-M fabric; Dry; Field pH 7.5 (ssive grade of structure; Earthy
B21 0.14 - 0.2	2 m Dark reddish brown (5YR3 Smooth-ped fabric; Dry; C pH 8 (Raupach); Clear ch	common cutans, 10-50%		
B22 0.2 - 0.3	m Dark reddish brown (5YR3 Smooth-ped fabric; Dry; C pH 8.5 (Raupach); Gradua	common cutans, 10-50%		
B23 0.3 - 0.4	m Dark red (2.5YR3/6-Moist) mm, Angular blocky; Smo coated, distinct; Field pH §	oth-ped fabric; Dry; Con	nmon cutans, 10-5	ng grade of structure, 20-50 50% of ped faces or walls
B24 0.4 - 0.5	m Red (2.5YR4/6-Moist); ; M fabric; Dry; Common cutai (Raupach); Clear change	ns, 10-50% of ped faces		gular blocky; Smooth-ped distinct; Field pH 9
B31 0.5 - 0.7		ces or walls coated, faint	t; Many (20 - 50 %), Calcareous, Coarse (6 - 20
B32 0.7 - 0.9		ces or walls coated, faint	t; Common (10 - 2	ped fabric; Dry; Common 0 %), Calcareous, Medium
B32 0.9 - 1.1		ces or walls coated, faint	t; Common (10 - 2	ped fabric; Dry; Common 0 %), Calcareous, Medium

Proje	ct Name: ct Code: cy Name:	Rhynie Soil Survey Rhynie Site ID: A1245 Observation ID: 1 CSIRO Division of Soils (SA)
B32	1.1 - 1.3 m	Reddish yellow (5YR6/6-Moist); ; Massive grade of structure; Rough-ped fabric; Dry; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 9 (Raupach); Clear change to -
B33	1.3 - 1.55 r	Reddish yellow (7.5YR6/6-Moist); , 2.5YR56, 20-50%, 15-30mm, Prominent; Massive grade of structure; Rough-ped fabric; Dry; 20-50%, coarse gravelly, 20-60mm, rounded platy, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; Many (20 - 50%), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -
BC	1.55 - 1.8 r	Yellowish brown (10YR5/4-Moist); ; Massive grade of structure; Rough-ped fabric; Dry; 20-50%, coarse gravelly, 20-60mm, rounded platy, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; Many (20 - 50%), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -
С	1.8 - m	Yellowish brown (10YR5/4-Moist); ; Dry;
	hological N	<u>otes</u>
A1		An interesting profile. The A1 appears to be deposited. It is very dark and high in organic matter and silty clay.
A2		The A2 has very sharp upper and lower boundaries.
B21		The structural changes in the B are very clear and the consistence changes markedly. The B21 has a fine, strong AB structure and a high sorptivity, it swells instantaneously and any water is quickly absorbed.
B22		There is a very high sorptivity in the B2 horizon, but very low sorptivity in the B3. There is also a coarsening of sttructure down the profile.
B23		The mottle is due to the cutans.
B31		The B21 contrasts sharply with the B3 which may well be sodic, it is tough and massive with a more dull colour.
B32 BC		The sand reduction occurs where the carbonate begins. Into Woolshed Flat Shale at depth.
-	rvation Note	·
0030		

Site Notes

Project Name:	Rhynie Soil	Survey		
Project Code:	Rhynie	Site ID:	A1245	Observation ID:
Agency Name:	CSIRO Divis			

Laboratory Test Results:

Laboratory	Test Re	suits:										
Depth	рН	1:5 EC	C -	Exchang	jeable		Na	angeable	CEC	ECEC		ESP
m		dS/m	Ca	Mg		к	Na Cmol	cidity				%
0 - 0.06	7.27C 7.52A	0.25A										
0.06 - 0.14	7.54C 7.87A	0.15A										
0.1 - 0.14												
0.14 - 0.2	7.35C 7.7A	0.13A										
0.2 - 0.3	7.59C 8.05A	0.2A										
0.3 - 0.4	7.51C 8.27A	0.13A										
0.4 - 0.5	8.14C 8.66A	0.23A										
0.5 - 0.7	8.4C 9.13A	0.43A										
0.7 - 0.9												
0.9 - 1.1	8.44C 9.32A	0.6A										
1.1 - 1.3												
1.3 - 1.55	8.38C 9.52A	0.52A										
1.55 - 1.8 1.8 -												
Depth	CaCO3	Organic	Av		Total	Total	Tot	Bulk	Particle			
m	%	C %	F mg	s J/kg	P %	N %	K %	Density Mg/m3	GV CS	FS %	Silt	Clay
$\begin{array}{c} 0 - 0.06 \\ 0.06 - 0.14 \\ 0.1 - 0.14 \\ 0.14 - 0.2 \\ 0.2 - 0.3 \\ 0.3 - 0.4 \\ 0.4 - 0.5 \\ 0.5 - 0.7 \\ 0.7 - 0.9 \\ 0.9 - 1.1 \\ 1.1 - 1.3 \\ 1.3 - 1.55 \\ 1.55 - 1.8 \\ 1.8 - \end{array}$												

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Depth	COLE	Gravimetric/Volumetric Water Contents					K sat	K unsat		
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h
0 - 0.06 0.06 - 0.14 0.1 - 0.14 0.14 - 0.2 0.2 - 0.3										

Project Name:	Rhynie Soil Survey							
Project Code:	Rhynie	Site ID:	A1245					
Agency Name:	CSIRO Divis	ion of Soils (S	SA)					
00.01								

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0.3 - 0.4 0.4 - 0.5 0.5 - 0.7 0.7 - 0.9 0.9 - 1.1 1.1 - 1.3 1.3 - 1.55 1.55 - 1.8 1.8 -

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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

Observation ID: 1