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THE UNIVERSITY OF ADELAIDE

THE GEOLOGY AND GEOCHEMISTRY
OF ADELAIDEAN SEDIMENTS,
MOUNT PAINTER PROVINCE,
SOUTH AUSTRALIA,
WITH EMPHASIS ON
THE UPPER UMBERATANA GROUP

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THE GEOLOGY AND GEOCHEMISTRY OF ADELAIDEAN SEDIMENTS,
MOUNT PAINTER PROVINCE, SOUTH AUSTRALIA,
WITH EMPHASIS ON THE UPPER UMBERATANA GROUP.

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This thesis is submitted as partial fulfilment of the course requirements of the Honours Degree of Bachelor of Science in Geology at the University of Adelaide, 1973.

ERRATUM

Nuccaleena Formation wrongly placed in the Umberatana Group; actually at the base of the Wilpena Group.

ABSTRACT

Adelaidean sediments occurring on the eastern side of the Mount Painter Province in the Umberatana and Yerelina Synclines have been mapped and investigated geochemically.

Glacial marine conditions are proposed for both the upper and lower glacial sequences while marine conditions predominated during the deposition of the interglacial sequence. Some fresh-water influence is envisaged during the deposition of the lower Amberoona Formation and the Ulupa Siltstone.

The Amberoona Formation has been subdivided on the basis of geochemical evidence and observations made in the field.

CONTENTS

<u>Abstract</u>	Page
<u>Introduction</u>	1
<u>Stratigraphy</u>	2
1. <u>Burra Group</u>	
1.1 Skillogalce Dolomite	3
1.2 Unnamed Unit	3
2. <u>Umberatana Group</u>	
2.1 Bolla Bollana Formation	3
2.2 Tapley Hill Formation	6
2.2.1 Serle Conglomerate Member	6
2.2.2. Siltstone Member	6
2.2.3 Yankaninna Siltstone Member	7
2.3 Amberoona Formation	8
2.4 Fortress Hill Formation	10
2.5 Mount Curtis Tillite and Balparana Sandstone	11
2.6 Nuccaleena Formation	15
3. <u>Wilpena Group</u>	
3.1 Ulupa Siltstone	15
Geochemistry of the Upper Umberatana and lower Wilpena Groups	16
Geochemical Subdivision of the Amberoona Formation	17
Geochemical Comparison of the Fortress Hill Formation and Ulupa Siltstone	20
Structure and Metamorphism	22
Acknowledgements	
References	

CONTENTS

Appendix 1

Appendix 11

Appendix 111

Appendix 1V