

THE VICTORIA CREEK MARBLE,

WITH OBSERVATIONS ON THE GEOLOGY OF AN AREA NORTH-EAST OF

WILLIAMSTOWN, SOUTH AUSTRALIA

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HONOURS THESIS

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INTRODUCTION:

A small area immediately north-east of Williamstown, South Australia, has been mapped in considerable detail, with the intention of studying, in particular, outcrops of white marble, to be called the Victoria Creek marble. Also the rock types of this metamorphic province have been listed.

Rocks of the area have been subjected to fairly intense deformation, and fracturing. Metasomatic alteration and retrograde metamorphism is apparent in several localities. Consequently, and together with confinement of mapping to a small region, limitations must be realised, in applying the collected data to the regional geological picture.

Finally, an effort is made to compare observations with the more recently presented geology of the Barossa Ranges.