

1976/22. Groundwater investigation at Adventure Bay, Bruny Island

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A groundwater investigation of a small property at Adventure Bay . [EM259986] was undertaken at the request of Mr J. Mitchell.

The property lies at the foot of the hills to the west of Adventure Bay. To the east of the property is a low lying lagoonal area behind Adventure Bay beach composed of Holocene marine sand. The farmhouse is situated on a narrow terrace which lies about 10 m above sea level. There are no exposures near the house but white siliceous Triassic sandstone crops out to the west at the back of the terrace, forming small cliffs at the rear of the property. A small spring at the back of the terrace drains into a small dam in a gully at the rear of the house. The spring was dry when examined in March. Several holes were augered on the terrace near the house to determine the underlying material. The holes, which were 2 m deep, did not reach the water table; weathered sandstone was encountered in each hole. The terrace level appears to be erosional in origin.

CONCLUSIONS

Of the six bores known to have been drilled on Bruny Island three have been dry, one has a low yield (15 l/m) of poor quality water (2400 ppm T.D.S) and two have been successful. As the available information is not promising and in the absence of a systematic groundwater investigation, further boring for groundwater will therefore carry a high risk of failure. Most of the above bore information is related to North Bruny Island but is probably indicative of hydrological conditions in similar rock types on South Bruny Island. Triassic rocks elsewhere in south-eastern Tasmania generally yield small quantities of medium to poor quality groundwater. Drilling cannot therefore be safely recommended.

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