

CASE STUDY: The History of Water Supply on the Central Coast

10. Geophysical aspects in planning for the Mangrove Creek Dam

When the ten alternative water supply Schemes were being evaluated in 1975, 23 possible dam sites were located in upper Mangrove Creek. The "Report on Mangrove Creek Damsites", Department of Public Works, January 1974, noted "*Boomerang Creek was set as the upper limit of a suitable damsite location. The Worley's Creek damsite was set as the lower limit of investigation due to the difficulties of construction involved with the deep compressible alluvium associated with this site and expected to be encountered to an even greater extent down stream from this*". Of these 23 sites, five of were examined in detail from a geological, geotechnical and financial point of view and one was selected as the preferred site (see map below).

Upper Mangrove Creek catchment - geological map of the site proposed for the dam in 1974.

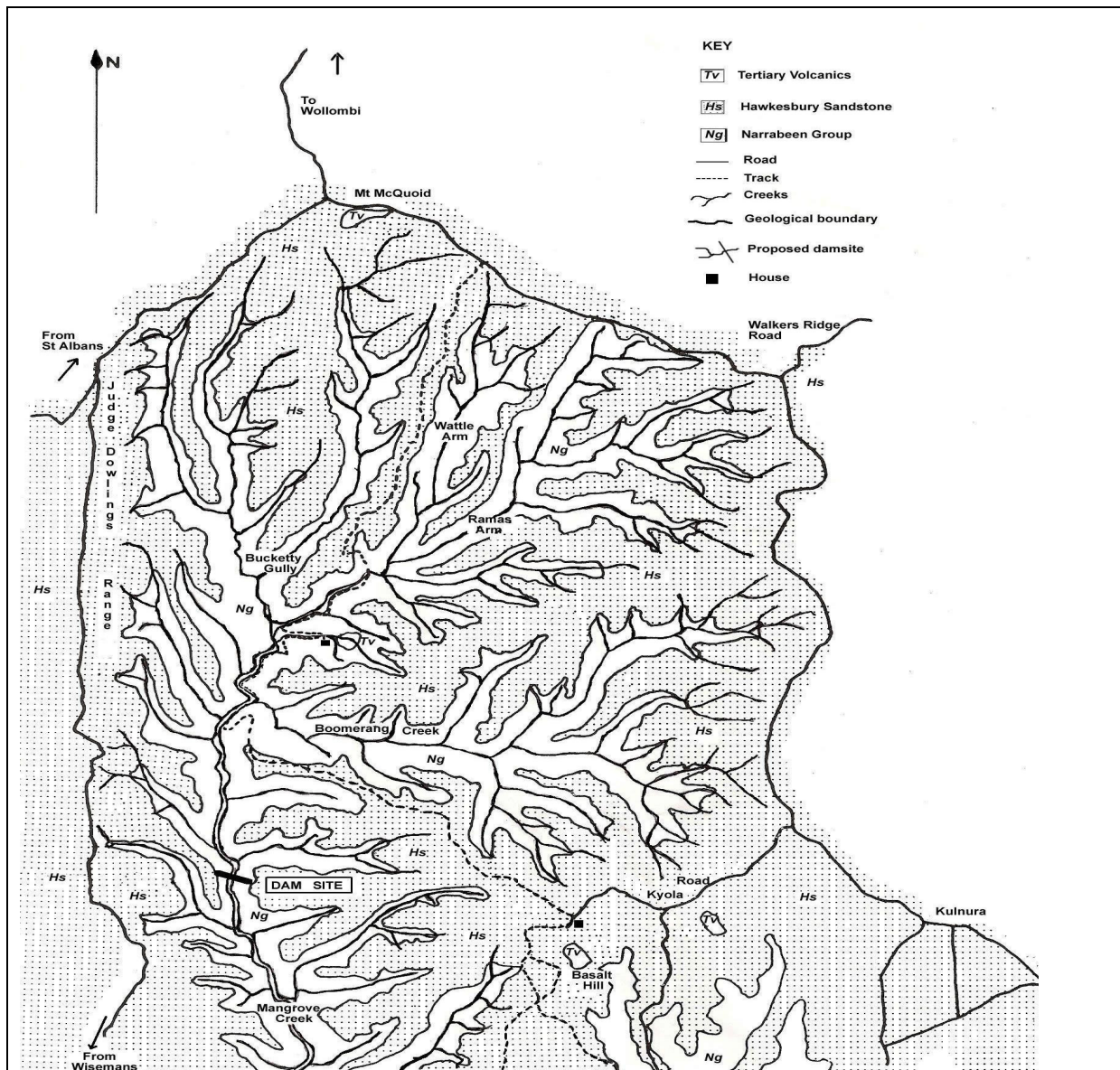


Figure 3: Upper Mangrove Creek catchment - geological map of the site proposed for the dam in 1974 ("Mangrove Creek Dam Investigations", Volume 4, Report 1 of "Report on Investigations for Water Supply to the Gosford-Wyong Region", January 1975, Department of Public Works N.S.W., Figure 3 (modified))