

## WARREN PECK

### PRINCIPAL GEOTECHNICAL ENGINEER

BSc (Geology)  
MAusIMM (CP), FIEAust (CPEng), MGSA, MAGS



#### EXPERTISE

Warren has more than fifty years of wide-ranging experience in geological engineering, mainly Civil, Mining and teaching. His expertise includes the application of engineering geology and engineering geophysics to the assessment of slope stability, the design of embankments and the investigation, design and construction of tunnels, raises and shafts. He is an expert on ground subsidence caused by underground construction, particularly on the engineering geology of Melbourne. He was Chief Editor of the Australian Geomechanics Society's book on this topic, published by Balkema, Rotterdam, 1992.

#### SUMMARY OF EXPERIENCE

Warren joined AMC as a Principal Geotechnical Engineer in August 1998. More recently, he presented *Geotechnical Problems when Tunnelling near buried Watercourses* at the 28<sup>th</sup> ITA World Tunnel Congress, Sydney 2002, which was reprinted in *Engineers Australia*, Civil Edition, Vol 74 No. 4, April 2002, and dealt with the problems associated with Deep Leads in Melbourne. He prepared expert reports on the geotechnical effects of the ground dewatering associated with the construction of Melbourne's Burnley Tunnel. Warren undertook site inspections and provided review reports on the foundation conditions for two proposed large dams in the Islamic Republic of Iran.

Warren has been involved in a number of tunnels in the Melbourne area. He researched the effects of rock mass properties and high ground stresses on ground movement around tunnels and on tunnel boring machine performance whilst a Consultant Engineering Geologist to the Construction Division of the Melbourne and Metropolitan Board of Works. He also provided construction advice for the soft ground tunnels in the North Road Intercepting Sewer and the South-Eastern Trunk Sewer and in 1969 published a paper on tunnelling in hard and soft ground in Melbourne. Warren headed the engineering design team undertaking the route selection, preliminary design and site investigation of Hong Kong's Aberdeen Tunnel – twin tubes in granite, each 9m diameter and 1.9 km long.

His mining experience includes Bougainville (PNG), Ok Tedi (PNG), Cooranbong Colliery (NSW), West Cliff Colliery (NSW), Muja Open Pit (WA) and Broken Hill (NSW). Whilst Associate Professor of Geological Engineering at RMIT University, he undertook a major geotechnical design investigation for Broken Hill's 6.7m diameter, 825m deep Airshaft No.5 and investigated stress problems for deep mining and cliff collapses associated with coal mining.

Warren's full resume is available upon request.