

## Master Planning, Network Analysis and Asset Reliability

### Hunter H2O can help with...

- Hydraulic modelling, capacity assessment and master planning for water and wastewater networks,
- Planning policies to assist in efficient management of water businesses,
- Dam safety analysis, emergency planning, monitoring and risk assessment,
- Asset risk and reliability assessments, including condition assessment.

### Our Team

Operating throughout Australia and internationally, our experienced professionals offer skills and experience to guide our clients through their individual business requirements.

### Our Approach

Collaboration is the key to achieving results for our clients and industry colleagues.

We are committed to developing long term business relationships by partnering with our clients to achieve mutually beneficial business outcomes.

### Key Projects

#### Modelling Master Planning Training and Support, Water Authority of Fiji

Hunter H2O has worked collaboratively with Water Authority of Fiji to assist with improving in-house planning and design capabilities. Through selected water and wastewater modelling, master planning, business case and training projects, the Water Authority has developed future planning strategies which utilise the skills of current staff. A large focus has been on the knowledge transfer between Hunter H2O and Water Authority staff.

#### Bulk Water Supply Long-Term Augmentation Options Review, Tamworth Regional Council

TRC engaged Hunter H2O to investigate potential future raw water augmentation options, in order to provide reliability and sustainability to the Tamworth raw water supply into the future. The assessment was primarily focused on assessing the order of cost, the technical viability and the potential yield benefit of each option, in order to select a range of viable options for further consideration.

#### Asset Condition Assessment Specialisation

Hunter H2O is currently supplying soil testing services as part of a major condition assessment contract to Sydney Water for critical trunk pipelines and have previously provided this for Hunter Water Corporation. The Linear Polarisation Resistance (LPR) test was developed in-house by our materials engineer Dr Matthew Dafter and acts as a surrogate for physical exhumation of a pipeline to determine the pitting rate of soils towards buried ferrous pipelines. The technique is backed up by statistical analysis of the resulting pitting data to extrapolate a limited dataset across an entire pipeline to predict the probability of failure.

Hunter H2O undertakes condition assessment on both network and treatment assets using our assets inspection tool ipad app for real time completion of digital datasheets, photo linking and geocoding of photos as well as an option to utilise a real time comparison to previous inspections. The ipad app allows for client customisable reports that incorporate all datasheets and photographs collected during the inspections to document the findings of the condition assessments, including rating systems used for ranking defects etc.

Talk to us

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[www.hunterh2o.com.au](http://www.hunterh2o.com.au)

### OFFICE LOCATIONS

NEWCASTLE  
SYDNEY  
BRISBANE  
ADELAIDE  
SUVA, FIJI

