

# **CONDITION ASSESSMENT TECHNIQUES FOR PRESSURE WATER MAINS**

**Philip Ferguson and Stephen Farrelly**  
**Pipeline Condition Assessment Group, Earth Tech Engineering Pty**  
**Ltd;**  
**and**  
**David Nicholas, Hunter Water Australia.**

## **SUMMARY**

The techniques used to determine the condition of pressure water mains are briefly described and evaluated. Techniques are broadly categorised into two classifications – direct and indirect, with direct techniques being further subdivided into Intrusive and Non-Intrusive, depending on whether they cause disruption to the operation of the main. Indirect techniques are subdivided into Environmental and Operational Performance categories.

Condition assessment is seen as a staged approach, utilising many techniques, including the cost-effective Linear Polarisation Resistance (LPR) electrochemical technique, in conjunction with statistical and predictive modelling.

Keywords: Condition assessment of pressure water mains, Intrusive and non intrusive testing, Remote Field Technique

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