Water Main Appurtenances

Background

This project investigated the application of condition assessment to water main appurtenances. In the context of water mains, an appurtenance is an asset associated with the water distribution and transmission network that are additional to the pipe assets themselves (note: in this context, pipe assets implies pipe bodies, joints, tees etc). In line with the requirements of the Project Steering Committee, the focus of the research was extended to cover four types of valve namely hydrants, isolation valves, automatic control valves and air valves.

The overarching objective of the project was to create a consolidated and practical guidance manual on the condition assessment of water main appurtenances and included the consideration of classification systems, performance criteria, inspection and condition assessment techniques, criticality, approaches for condition assessment and performance monitoring, expected service life and ways to extend service life.

This project was completed in 2012.

Outcomes and benefits

Outcomes:

Practitioner Guidance Manual

- The Practitioner Guidance Manual can be downloaded as a PDF on the WaterRF Website or the WSAA Website. The manual provides information required by asset management and maintenance practitioners to set appropriate management strategies toundertake condition assessment of valves effectively.

Benefits:

- Help practitioners to make more informed decisions on condition assessment for appurtenances and allow them to better understand the trade-offs involved
- Help utilities set and undertake appropriate management strategies that reflect best practice asset management concepts such as identifying and managing risks
- Reducing overall cost of asset ownership
- provide a reference to facilitate discussions with stakeholders with respect the level of service required and the expenditure needed to achieve this service.

Further Information

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