



Pipeline Condition Analysis Services

- Potable Water
- Raw Water
- Wastewater



Overview

PICA provides the water and wastewater industry high-resolution direct condition assessment services with Remote Field Testing (RFT) Technology. PICA employs custom built ILI tools that can inspect metallic pipes ranging from 3” to 78”.



Condition analysis services provide asset managers with:

- High resolution pipe wall thickness measurements, detecting internal and external areas of wall loss, graphitic corrosion, cracks or local stress concentrators (e.g. dents) in metal pipes.
- Identification of potential critical failure locations
- XYZ mapping (Accelerometer based)
- Location of construction features
 - (valves, fittings and pipe lengths)
- Pipe condition baseline surveys

Assessing the condition of a pipeline allows for asset managers to employ Proactive Point Repair (Targeted Maintenance), extending the service life of a pipeline and avoiding the high costs associated with full replacement.



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RFT Advantages:

- Scan through liners without damaging them
- Prioritize areas for replacement
- Enhance water conservation through proactive leak prevention
- Complete long-range inspections greater than 30 miles (50km) in length
- Can be deployed in either free-swimming (<36" tools) or tethered mode



Details

3" to 16" Diameter Pipelines: Tools are deployed in free-swimming or tethered mode; can maneuver through elbows and minor bore restrictions.

18" to 36" Diameter Pipelines: Tools generally deployed in tethered mode; can navigate through pipe ovality and shop bends.

36" to 78" Diameter Pipelines: Custom designed tools expand and collapse for easy insertion and extraction through standard manholes.

Assess large diameter Concrete Mortar Lined & Coated (CML&C) Steel pipes, Prestressed Concrete Cylinder Pressure Pipe (AWWA C301) and Bar-Wrapped Steel Cylinder Concrete Pressure Pipe (AWWA C303).

Ancillary Services PICA provides include:

- Acoustic screening and more with Recon+™
- LiDAR, Laser Profilometry, and CCTV
- External condition assessment with the Bracelet Probe™



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