



## **ADVANCED PIPE INSPECTION**

API is a specialist UK based company offering the utility and pipeline contractor a unique solution in pipeline inspection utilising the latest technology on the market today.

Our company is focussed on all size pipeline assessments and inspection solutions.

API is supported by a fully accredited ISO 9001 and ISO13485 laboratory for material sampling and testing.



## ADVANCED PIPE INSPECTION

API water main condition assessment services pro-actively assess the condition of water transmission systems, helping water utilities and pipeline contractors to locate difficult to trace water main leaks, reduce water main breaks, ensure environmental compliance, and make informed decisions regarding water main repair, rehabilitation, or replacement.

*Our fully trained operatives are available 24/7 to sustain our client's requirements, and are ready to be deployed anywhere within the UK and Overseas.*

# **API OFFERS PIPELINE INSPECTION SOLUTIONS IN THE FOLLOWING AREAS**

## **PRESSURISED CCTV INSPECTIONS**

A fully Chlorinated camera inspection that is undertaken whilst the pipeline remains in normal service.

## **DE-PRESSURISED CCTV INSPECTIONS**

A fully chlorinated (where required) camera inspection of pipelines to determine pipe configuration and condition pre and post cleaning or lining projects

## **ROV CCTV INSPECTIONS**

Long distance camera inspections utilising a motorised crawler system up to 900 metres.

## **SPECIALIST LEAK DETECTION SERVICE**

On difficult to trace non metallic and Trunk mains, unique Internal acoustic technology.

## **EXTERNAL NDT TESTING**

The latest technology available in pipe wall assessment.

## **MATERIAL SAMPLING AND TESTING**

A full detailed analysis of acquired samples.







## OUR UNIQUE SERVICE

### **PRESSURISED & CHLORINATED CCTV DISTRIBUTION MAIN INSPECTIONS/INTERNAL ACOUSTIC LEAKAGE MONITORING**

These surveys are undertaken utilising a unique pressure rated camera system. A chlorinated and pressurised pipe inspection or leak detection system for 100m investigations within distribution water mains. The systems camera and hydrophone technology is matched for 100mm to 500mm diameter pipe work for complete asset condition examination and leak finding. The unique camera can be launched via through bore fire hydrants, pressure fittings, removed air valves, gate valves and quadrina tappings at full mains pressure. This technology is capable of up to 100m travel with and against the water flow (dependant on pipe configuration, size and condition).



### **PRESSURISED & CHLORINATED CCTV TRUNK MAIN INSPECTIONS/INTERNAL ACOUSTIC LEAKAGE MONITORING**

These surveys are undertaken utilising a unique pressure rated pod system. The unique surveys are capable of a 2km inspection via a 2 inch insertion point with the flow direction. The unique pod system can be configured to include a HD camera, high powered location sonde, or ultra-high response hydrophone technology for precise leakage and acoustic surveys.



## HYDROSTATIC LEAK DETECTION

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API offers a new approach to failed hydrostatic pressure testing by utilising a unique DWI approved cabling technique, to detect leaks within pipelines without a flow requirement. A specialist hydrophone capsule offers a 1km leakage sweep of any pipeline size or material. This is a new revolutionary approach to leak detection and can also be retro fitted to any potable water pipeline.

## EXTERNAL NDT

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API utilise an external NDT manipulator designed specifically for pipework to allow precise condition assessment and evaluation. The system uses multiple ultrasonic probes to measure parent material, pit depths and general corrosion. The system is fully automatic and traverses electronically around the circumference of the pipework. For defect analysis there is a XY raster sequence that can be installed. Using this system, allows accurate remaining life expectancy of the pipework to be calculated where thousands of measurements can be acquired in minutes.



## REMOTE OPERATED VEHICLE INSPECTIONS

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API utilise the latest ROV technology developed for the off shore industry. A solution to long-range de-pressurised pipeline inspection challenges.

API has the capability of inspecting a distance of 900 metres of pipeline from a central system insertion point.

The system requires an open cut pipe section to enter the pipeline and features include:

- Fully submersible
- Fully steerable
- Interchangeable wheels and tracks for increased vehicle traction
- 360 degree pan and tilt/zoom camera
- Data retrieval (recorded data) including distance overlay
- Motorised self-stacking cable assembly
- System can be utilised for towing (mule taping) in the pipe work inspection process

*All of our services include a detailed digital data report including post inspection result analysis.*

## SAMPLING: SOIL, SEDIMENT AND WATER

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On site soil samples are obtained and couriered to our approved laboratory for analysis of our client's requirements

On site sediment samples are obtained and couriered to our approved laboratory for analysis of our client's requirements

On site water samples are obtained and couriered to our approved laboratory for analysis of our client's requirements

## PIPE IN SITU TESTING/ SURFACE REPLICATION

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Acetate replication is an established technique in faithfully copying the microstructure of a material on to a film. This means a material can be examined in a laboratory without sectioning or damaging the area of interest. This surface procedure is used to identify a material, look at the quality of a material or examine a particular area of interest such as a weld or joint. This process is finalised by adding the replica to a glass slide for examination under the microscope by our experienced analyst.





## OUR UNIQUE SERVICE CAPABILITIES

- Investigating pipe wall conditions
- Specialist leak detection
- Material validation
- Pre and post cleaning validation
- Hydro scheme pipe monitoring and leak detection
- Internal validation of pipeline installation/lining projects
- Sediment issues
- Seeking ferrules
- Live valve assessments
- Location of foreign objects
- Location of blockages or closed valves
- Pipeline configuration surveys, prior to lining projects
- Reasons for water discolouration / water quality issues
- Life expectancy of the pipe
- Condition assessment
- Mains renewal prioritisation
- Asset management budget Validation



## OTHER BENEFITS

- GPS tracking and plotting
- Direct Import of data to GIS
- Attachment of video to GIS
- Validation of Asset management plans
- Audit trail of Asset management budgets
- Location of unknown mains locations
- Commissioning of new pipelines with hydrophone testing and CCTV to validate QC





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## **ADVANCED PIPE INSPECTION UK LTD**

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