

## Leak detection text

We understand that when leaks arise this can be disruptive and cause extensive damage to property. Our highly experienced and qualified operatives used the latest technology to locate and resolve leaks and where possible avoid disruption to your property.

Our leak detection methods:

- **Thermal imaging surveys** - using infrared inspection camera equipment to detect leaks where changes in temperatures occur.
- **Tracer dye testing** – Using coloured dye within waste/soil and rainwater pipes to establish where leaks exist.
- **Pressure testing** - involves filling a closed pipe system or vessel with air or water at a controlled, elevated pressure (often 1.5x operating pressure) to detect integrity loss. A steady pressure gauge indicates a sound system, while a drop in pressure indicates a leak.
- **CCTV drainage surveys** – camera equipment used in pipework and drains to locate cracked and damaged pipe work.
- **Tracer gas surveys** – using safe non toxic gas to locate leaks in hidden/concealed pipework.
- **Acoustic testing** - is a non-invasive, highly accurate method used to identify hidden leaks in pipes by detecting, amplifying, and analysing the sounds produced by water escaping under pressure, such as hisses or vibrations.

## Case study 1

- Ground floor flat experiencing leaks from above into their kitchen.
- Completed leak detection inspections using thermal imaging equipment and tracing dye within the kitchen of the flat above.
- Observed numerous leaks exist due to missing seals/gaskets/washers and defective pipe work fitted.
- Replaced the defective section of waste pipe and fitted new seals/gaskets/washers and couplings.
- Tested the pipework with water. No leaks observed within the ground floor flat once repairs completed.



Used coloured tracing dye



Found the leaking pipe work



Removed the leaking pipe work



Replaced damage pipe work



Replaced damage pipe work



Pipe work replaced and leak resolved

## Case study 2

- Ground floor electrical cupboard has a leak from the bathroom of a flat above.
- Completed leak detection inspections using thermal imaging equipment and tracing dye within the bathroom of the flat above.
- Observed the bath plug waste contains a hole so every time the bath is used, leaks arise.
- Removed and replaced the bath plug waste.
- Tested the bath and confirmed no further leaks detected.



Leaks entering an electrical cupboard from the bathroom of the flat above



Removed old plug waste and confirmed a hole exists causing the leaks



New plug waste kit fitted

### Case study 3

- Arrived on site to find flooded gardens and pathway areas to a communal block of flats.
- Excavated the ground to expose defective and leaking mains cold water supply pipes.
- Supplied and fitted new pipe work and couplings to repair the leaking pipe work.
- Backfilled the ground surfaces to leave site in a clean and operational condition.



Attended site for flooded path/gardens



Attended site for flooded path/gardens



Excavated and found the damaged cold water supply pipe



Defective and damaged main water supply pipe exposed



Supplied and fitted new fittings to repair the cold water supply pipe



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Supplied and fitted new fittings to repair the cold water supply pipe



Ground bacfilled with compacted aggregates



Damaged water main repaired and ground surfaces reinstated

