



Water Leak Detection

Monitoring, detecting and work order management

OVERVIEW

There are various causes of leaks to utility water systems. The leaks can be caused by natural or man-made events or by equipment failures. Utilities need to locate these leaks as quickly as possible before they cause a lot of damage. Our currently operational systems are providing real time alerts of any such leaks – and a peace of mind for both utilities and cities.

GOALS

For continuous monitoring of potential leaks we deploy sensors called loggers. These loggers can be easily installed on pipes and fittings. The loggers are retained in place by strong magnets or straps, and are powered by low cost replaceable batteries, which last years. As soon as a leak is detected the logger unit enters an alarm state and transmits a radio signal to indicate a leak condition.

With utmost confidence Utilities can monitor 100% of their distribution system. This improves efficiency because the work order is generated immediately as a leak is detected so it can be fixed quickly and in turn reduces property damage and saving water.

Our system also provides the “Lift and Shift” feature loggers. These are for pipes and equipment deep in the ground. The signal is “lifted and shifted” up from the ground and the data is transmitted directly to an office computer via GPRS data logger.

Similarly we have various other signal algorithms that monitor communications from these loggers over extended periods to find patterns of noise vs signal in order to isolate noise to provide better confidence in the communications.

SOLUTIONS

Projects with our system are implemented, deployed and currently operational in various cities.