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a C3 Group Company



Water Supply & Distribution System Optimization

Innovative Distribution System Monitoring Technologies

Patented pressure monitoring technology was proven through the SWI project. The technology makes use of a dry barrel hydrant retrofit and battery powered, wireless technology is used to transmit system pressures at previously unmonitored distribution locations back into a web-based reporting system, the owner's reporting or SCADA system. The dry barrel hydrant application is particularly well-suited to cold weather applications where cap pressure monitors are not feasible. Completely hidden within the hydrant, the technology is less susceptible to damage from handling during a fire event or vandalism. The retrofit takes less than an hour, with all original parts saved for reuse, and the technology is mobile. The device can be moved from location to location and has proven to be very versatile and reliable. Extensive testing has demonstrated that the device does not impact fire flow capacity of the hydrant, and that the retrofit does not impact torque ratings of the hydrant.

The team is now embarking on a proof of concept project which will see the development and testing of a device added to the hydrant instrument to allow for leak listening and distance to leak estimation.

We acknowledge our industry partners on this project, Chatham Kent Public Utilities, City of Guelph, Eramosa Engineering, Township of Centre Wellington, Hydrant Network Solutions Inc.

