



Water Supply Security



Safe water in the digital age: Healthy, safe water is our most vital resource and is becoming increasingly scarce due to growth and demand outstripping our finite resources. Equipping water treatment plants with the LiquID monitor will **prevents contaminants from entering the water supply.**

The LiquID is a self-contained, hands-free system designed to work 24/7/365 that automatically samples water over 3 million times a day, continuously looking for natural and man-made organic compounds, benign or otherwise. Immediately upon detection of a water contaminent the LiquID warns water treatment plant control systems, activating water treatment processes, water diversion equipment, or shut down intake valves or pumps.

Implementation: Three LiquID units at each water treatment plant will create complete water security for the drinking water supply. **Phase 1** places a LiquID machine with sophisticated alarm system at the intake of every water treatment plant thereby protecting the facility from polluted or tainted water. **Phase 2** provides additional security by monitoring water leaving the plant for potable usage. **Phase 3** places a LiquID machine upstream of the plant intake to provide early warning.

Benefits:

- Scalable approach utilizing existing infrastructure.
- Holistic water quality parameters including bacteria. No chasing the ‘polutant of the day’.
- Same electrical use as a 120W lightbulb. No chemicals or other consumables.
- Eliminate a vulnerability in the water supply.
- High-resolution approach (results every 2 minutes) contrasts sharply with the current daily monitoring.
- Better visibility and control for operators of our water supply.
- Detects a broad range of significant water quality events.
- Single technology capable of following organic and inorganic contaminants using a combination of broad-based and highly sensitive techniques.
- A network of water quality data can provide early warning to other facilities in case of a shutdown.

“A river is more than an amenity,
it is a treasure.”

- Justice Oliver Wendel Holmes

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Concrete, meaningful improvement to water security without additional regulation or infrastructure.

