PhotonTec™

Smart Sensing for Safer and Cleaner Tomorrow

Surface-First™ Water Intelligence

Earlier Water-Quality Visibility for Better Operational Decisions

Continuous operational awareness for source-water protection, treatment decisions, and resilient water systems

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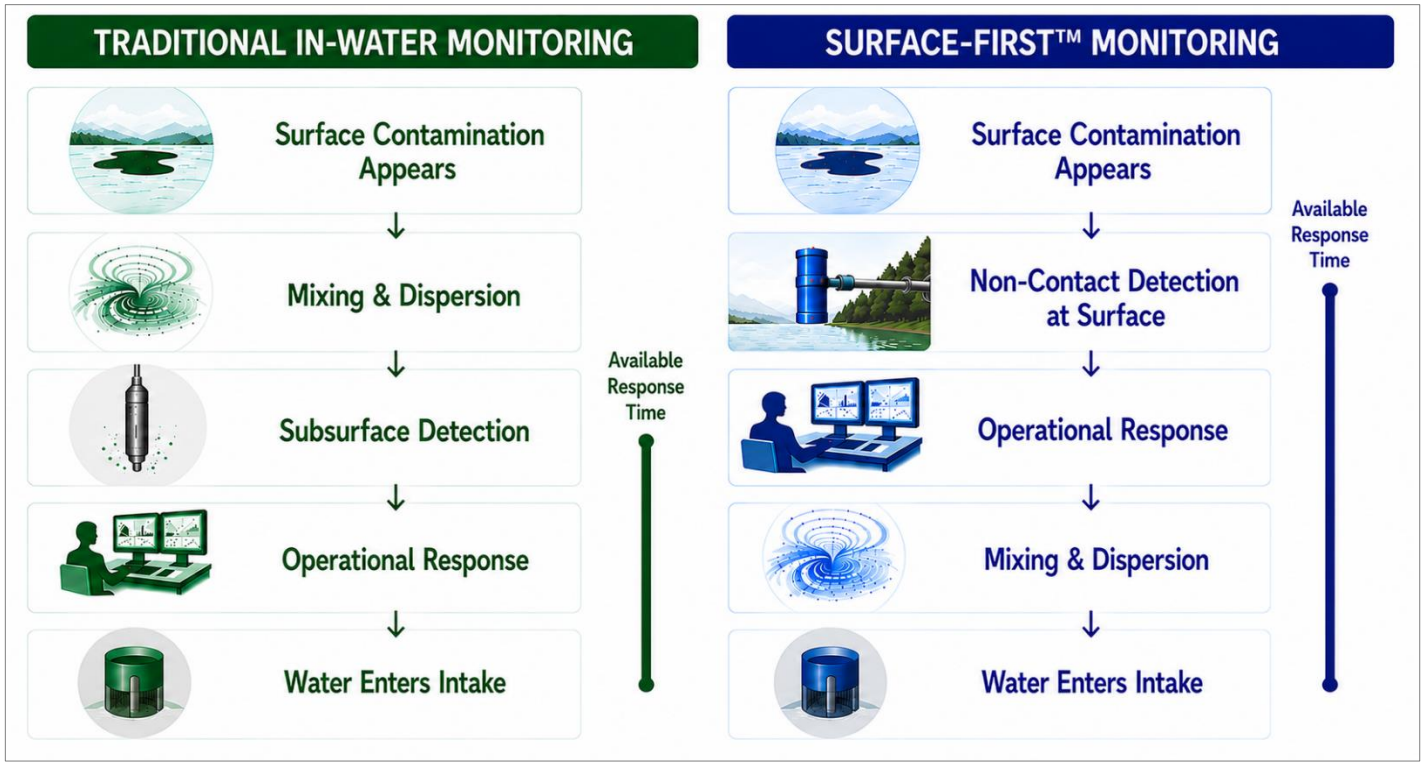

What Surface-First™ Detects

- Hydrocarbon sheens, spills, and leaks
- Algal activity and harmful algal blooms (HABs)
- Dissolved organic matter (CDOM/fDOM)

These conditions affect source-water quality, treatment performance, and membrane operations. Earlier visibility provides more time for informed operational decisions and response.

Why Surface-First Is Different

- Fewer site visits: no consumables or biofouling-related sensor maintenance
- Earlier awareness of surface-water threats where they often first emerge or concentrate
- More response time: detects stronger, localized surface signals before mixing and dispersion
- Deployment flexibility: works at intake structures and other constrained monitoring locations
- Complements sampling, laboratory analysis, online analyzers, and submerged sensors

Where Surface-First Creates Value

Source-Water Protection

- Earlier warning of hydrocarbon sheens
- Continuous visibility into HAB conditions
- Tracking changes in dissolved organic matter and DBP precursors

Treatment & Operations

- Earlier awareness of changing intake conditions
- More informed treatment decisions and adjustments
- Monitoring contaminants and conditions that often affect pretreatment and membrane performance

Surface-First™ Water Intelligence adds a new layer of operational awareness through continuous monitoring of the often-unobserved air-water interface.