

ALGAETRACKER

OVERVIEW



Accurate, real-time early detection of harmful algae blooms and other water quality issues

WHAT IT IS

The **AlgaeTracker** is a lightweight, solar-powered, self-cleaning sensor buoy that measures six key water quality parameters and streams data in real time to an online dashboard. Deployable in 30–60 minutes, it provides 24/7 visibility so you can detect blooms early, act quickly, and protect public health. Add-on sensors monitor at depth.



KEY FEATURES

- Plug-and-play setup, one-person install
- 4 kg, 35 cm diameter (8 lbs, 14" diameter)
- 30-minute readings: chlorophyll-a, phycocyanin, turbidity, water temp, solar light, GPS
- Optional add-ons: Multi-Parameter Sonde or Single Sensors (see page 2)
- Solar powered, cellular connected, best-in-class anti-fouling
- Live dashboard, alerts, historical charts, API integration
- Proven accuracy: $R^2 > 0.999$ sensor linearity; $R^2 > 0.996$ with live cyanobacteria

BENEFITS

- Early detection for proactive decision making
- Less manual sampling, focused site visits
- Low maintenance vs. traditional sensors
- Scalable, more affordable per node than traditional buoys



CASE STUDIES

City of Akron, OH

Akron’s Water Supply Bureau deployed **AlgaeTrackers** to monitor drinking water reservoirs. Continuous data let operators see trends, fine-tune treatment, and cut chemical use, reducing costs while ensuring safe water for 200,000+ residents.

Hammond River Angling Association, NB, Canada

This nonprofit watershed group replaced infrequent manual sampling with **AlgaeTrackers**, gaining 24/7 visibility into bloom activity. The system helped them capture key patterns, time interventions better, and provide accurate public updates without straining budgets.

APPLICATIONS

Early detection empowers smarter decisions:

Water utilities

Cut treatment costs, make data-driven decisions, and protect drinking water.

Lake associations

Safeguard community health, track long-term trends, and share reliable data.

Recreational area managers

Keep visitors safe, avoid unnecessary closures, and protect ecosystems.

Federal / state / provincial water departments

Strengthen public safety, improve trend analysis, and support science-based decisions.

COMPATIBLE ADD-ON SENSORS

Add one single sensor or a multi-parameter sonde to extend monitoring below the surface.

Single Sensor (choose one)

- Dissolved Oxygen + temperature
- Turbidity
- Chlorophyll-a
- Phycocyanin
- UV254 Total Organic Carbon
- Dissolved organic matter
- Total suspended solids

Each sensor has a self-cleaning brush.

TrackerSonde (up to 6)

- pH + temperature
- ORP + temperature
- DO + temperature
- Conductivity + temperature
- Turbidity
- Chlorophyll-a
- Phycocyanin

A central anti-fouling brush cleans all probes.

