

Our tool will help you realize a new level of process stability and efficiency... in 5 minutes!

For Industries:

- ✓ Detect toxic influent and its impact on your bioreactor
- Assess damage done by upsets and speed up the recovery process
- ✓ Pace dosing of nutrient blends and biostimulants
- ✓ Assess treatability of challenging substrates through bench scale jar tests

For Municipalities:

- Optimize F/M, Dissolved Oxygen, and other key process variables
- ✓ Eliminate excess solids and minimize sludge handling costs
- Detect sludge bulking well in advance of conventional parameters (i.e. SVI)
- ✓ Diagnose deflocculation and other settling issues

Accurately measure your true living biomass in minutes.

Wastewater operators, process engineers and plant managers have traditionally relied upon suspended solid measurements to quantify biomass in their process. However, solids tests detect dead biomass and inert material in addition to what is alive, resulting in inaccurate and unresponsive indicators of the living population. While Volatile Suspended Solids (VSS) tests are an attempt to be a better indicator of active biomass, it still cannot differentiate between live and dead cells. As such, 2nd Generation ATP monitoring renders this test unnecessary.

"LuminUltra's solutions helped us to identify the source of an upset in our process as well as monitor the health of the biomass during recovery. By utilizing the test, we were able to take enforcement action against the offending industries."



Jeanie Grandstaff Environmental Manager Hopewell Regional Wastewater Treatment Facility – Hopewell, Virginia



Side by side comparison of LuminUltra's 2nd Generation ATP® to other microbiological tools.

Analysis	2 nd Generation ATP	Particulate Analysis	Respirometry
What is detected?	Total microorganisms	Suspended solids	Metabolic activity
Interferences in detecting total living biomass	None	Dead biomass; non-biological particles	Respiration type
How long to get results?	Minutes	Hours	Minutes to hours
Can give results on-site?	Yes	Yes	Yes
What types of samples can be tested?	Fluids & solids	Fluids only	Fluids only
What is its best use?	Living biomass concentration and health	Total solids inventory	Aerobic activity

Achieve proactive control instead of reacting to process changes.

LuminUltra's biological monitoring solution provides direct insight into your biomass, allowing you to observe how it responds to the changes around it and establish cause-and-effect relationships with all key variables. The benefits of this new information are many and provide tremendous value straight out of the box.

The perfect complement to your existing control strategy.

Through this complete solution you can now solve a problem as old as the industry itself.

- LuminUltra Wastewater (QG21W™) Test Kit
- LuminUltra Cloud™ Data Management & Decision Support Platform complete with:
 - Mobile app for rapidly inputting and managing data;
 - Robust analysis and reporting to put you in control
- PhotonMaster™ Luminometer + Bluetooth Module
- LuminUltra Academy our online training and certification center

Our goal is to provide innovative solutions to Operators, Process Engineers, and Plant Managers who manage wastewater treatment processes.

What's in your water? Find out through the power of DNA!

Within minutes, ATP tests answer the question "Am I in control?", but what if the answer is "No"? What kind of specific risks are present? Metagenomics profiles can tell you not only what's there but in what relative proportion. This information identifies why control was lost and how to fix and prevent similar future problems. Ask about our advanced metagenomics testing services.

Ask us for a business case for using LuminUltra's solutions to save you time and money at sales@luminultra.com.

Proud distributor of LuminUltra's products



