



FOR IMMEDIATE RELEASE

ATHIAN PUBLISHES LWR PROTOCOL: MEASURED MANURE DATA CUTS THE UNCERTAINTY DEDUCTION BY MORE THAN HALF

FIRST WAVE™ becomes a creditable practice on Athian's platform, letting U.S. dairies generate verified impact units backed by continuous, on-farm measurement.

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CALGARY, Alberta - Livestock Water Recycling (LWR), a leader in sustainable manure management solutions, is pleased to announce the publication of a new protocol on Athian's livestock sustainability platform. The protocol recognizes LWR's First Wave™ system as an eligible practice for generating verified greenhouse gas (GHG) reductions, helping U.S. dairy producers turn measurable environmental performance into new revenue opportunities.

A key advancement of the protocol is its use of continuously measured manure data rather than relying solely on modeling. By directly monitoring manure flow and solids separation, LWR's First Wave™ technology enables a reduction of more than half in the standard uncertainty deduction applied to calculated emissions reductions, supporting more accurate, data-driven quantification of environmental benefits.

This improved precision allows dairy producers to receive greater recognition for their verified environmental performance while maintaining a conservative, transparent, and independently auditable approach.

TURNING MEASURED PERFORMANCE INTO VERIFIED IMPACT

Traditional emissions-reduction methodologies often rely on producer records and standardized assumptions to estimate how much manure enters a lagoon. LWR's First Wave™ system takes a more precise approach by continuously collecting operational data directly from the farm.

Electromagnetic flow meters record manure flow every minute, while total suspended solids (TSS) sensors capture readings every five minutes. Site-specific laboratory calibration then converts these measurements into volatile solids data, providing a detailed picture of system performance.

LWR's robust, data-driven measurement approach improves the accuracy and reliability of emissions-reduction calculations, supporting the generation of higher-quality carbon credits with greater overall value.

For dairy producers, this means more of their calculated emissions reductions can qualify as verified impact units.

SUPPORTING PROFITABLE SUSTAINABILITY FOR DAIRY PRODUCERS

Through Athian's platform, eligible U.S. dairy producers using LWR's First Wave system can generate verified impact units, creating new opportunities to capture value from on-farm emissions reductions. As milk processors, consumer packaged goods companies, and retailers increasingly seek credible, data-backed emissions reductions to meet their supply-chain sustainability goals, LWR's robust measurement approach helps deliver the transparency and confidence needed to support high-quality carbon credit programs.

This creates an additional opportunity for dairy producers to receive financial recognition for sustainable practices already contributing to improved farm performance.

"This protocol is a win-win for dairy producers and CPG's as it creates a streamlined process where the reductions come from continuous, on-farm measurement that any verifier can trace back to the raw sensor readings. The data gives buyers more confidence and gives our dairy customers a stronger, more reliable return on their investment." - **Karleigh Wiebe, Sales Manager, Livestock Water Recycling**

LWR's First Wave™ system is designed to integrate seamlessly into dairy operations, separating up to 98.5% of total solids, including approximately 85% of volatile solids, with minimal daily operator involvement. Separated solids can be directed to composting or solid storage, while nutrient-rich filtrate remains available for beneficial reuse on the farm.

By combining automated manure processing with continuous performance monitoring, First Wave™ helps dairy producers improve resource management while supporting measurable methane emissions reductions.

BUILT ON TRANSPARENCY AND INDEPENDENT VERIFICATION

The Athian protocol incorporates safeguards to ensure emissions-reduction calculations remain conservative and fully auditable.

The protocol is designed to be fully auditable, with independent third-party verifiers granted access to raw sensor readings, laboratory certificates, calibration records, and supporting documentation to reproduce calculations and confirm reported performance. Following ISO 14064-3 requirements, the process includes at least one annual site visit. Automated, continuous data collection through LWR's First Wave system minimizes the ongoing data collection and reporting burden on producers while generating consistent, traceable data to support credible emissions-reduction claims and provide supply-chain partners with confidence in reported environmental outcomes.

The protocol applies to eligible dairy operations throughout the United States, including U.S. tribal lands, with eligible project start dates beginning January 1, 2024. Monitoring is conducted monthly by default, with quarterly monitoring also available.

"Continuous, on-farm measurement is a step change in how emissions reductions are quantified. By replacing assumptions with minute-by-minute manure data, LWR's protocol cuts uncertainty by more than half and delivers fully traceable, high-confidence GHG reductions through the Athian platform. Buyers get claims they can stand behind, and producers get rewarded for more of the impact they create." — **Paul Myer, CEO and Founder, Athian**

ADVANCING THE FUTURE OF DAIRY SUSTAINABILITY

The publication of LWR's protocol on Athian's platform marks another step toward making measurable sustainability more accessible and financially rewarding for dairy producers.

By combining innovative manure management technology, reliable operational data, and independently verified environmental performance, LWR continues to demonstrate how farms can strengthen their operations while contributing to a more sustainable agricultural future.

Profitable Sustainability is more than a goal. It's a measurable opportunity.

ABOUT LWR

Livestock Water Recycling (LWR) is an agricultural technology company dedicated to helping livestock producers achieve Profitable Sustainability. Through innovative manure processing, including continuous monitoring, and nutrient management solutions, LWR helps farms recover valuable resources, improve operational efficiency, and reduce their environmental footprint. The data collected also helps supply chain partners track and report progress on their Scope 3 emissions goals

For more information, visit: www.livestockwaterrecycling.com

ABOUT ATHIAN

Athian provides a livestock sustainability platform that supports the quantification, verification, and recognition of greenhouse gas reductions across animal agriculture. Its platform connects producers implementing eligible sustainability practices with organizations seeking verified emissions reductions within their agricultural supply chains.

For more information, visit: www.athian.ai

