



COMPANY INFORMATION

Date:

August 18 ,2025

<b>Company:</b>	Livestock Water Recycling		
<b>Phone:</b>	1-403-204-4972	<b>Web</b>	Site:www.livestockwaterrecycling.com www.manure.ai
<b>Address:</b>	7920 56th Street SE	<b>City:</b>	Calgary
<b>State:</b>	Alberta	<b>Zip Code:</b>	T2C 4S9

BUSINESS CONTACT

TECHNICAL CONTACT

<b>Name:</b>	1. Karen Schuett, CEO 2. Karleigh Lewis, Sales	<b>Name:</b>	Gareth Jenkins, VP Engineering
<b>Phone:</b>	1-403-203-4972	<b>Phone:</b>	Toll Free 1 855-LWR-4972
<b>Email:</b>		<b>Email:</b>	Gareth.jenkins@livestockwaterrecycling.com
<b>Address:</b>	7920 56 Street SE	<b>Address:</b>	7920 56 Street SE
<b>City:</b>	Calgary	<b>City:</b>	Calgary
<b>State:</b>	Alberta	<b>State:</b>	Alberta
<b>Zip Code:</b>	T2C 4S9	<b>Zip Code:</b>	T2C 4S9

BUSINESS HISTORY

How long have you been in business? 35+ years

Are you part of a larger company? Yes  No

Did you exist as another company before this company was formed? Yes  No  If so, what was that company's name?

LWR Technologies Ltd., in business in oil and gas water treatment since 1990.

Number of employees? 20

What is your business structure?

What types of insurance and or surety do you provide? Comprehensive commercial, Errors and Omissions, Surety Bonds

Comprehensive commercial, bonds.

Describe your business service(s). For example: consulting, development, engineering, equipment sales, finance, other.

Describe your area or region of operation.

Global

Does your company hold any patents or the rights to any patents? Yes  No  If yes, please describe.

LWR holds global patents for our manure treatment process.

**Do you manufacture equipment?** Yes  No  *If yes, please describe.*

Design and Manufacture of the LWR First Wave and Second Wave, inclusive of all electrical panels and PLC programming all done in house.

**Do you integrate equipment manufactured by others?** Yes  No

*If you integrate, please list the names of the companies you represent.*

Yes, integrate stainless welding by others, and integration of screw press and polymer units manufactured by others

**How do you answer potential customer's questions about financial strength of your company?**

We have been in business for over 30 years and have a robust balance sheet.

**Do you offer technical/service support?** Yes  No  *If so, what methods?*

Yes, we offer commissioning on site, project management, site design, virtual operations support and wireless connectivity directly to the equipment, data repotting through our portal including a system dashboard, plus engineering analysis with weekly data reports, technical phone and video calls directly with the engineering team that designed and built the equipment, plus site visits as requested at any time. We also partner with local dealers and contractors to help in immediate need.

**Do you offer design services?** Yes  No  *If yes, please describe.*

Yes, engineering design and CAD drawings, plus lab testing, treatability of site samples with our in-house chemistry team in our lab, and anaerobic digestion trials.

**Do you offer financing?** Yes  No  *If so, what terms?*

Yes, we offer Manure as a Service programs, plus 3<sup>rd</sup> party leasing.

**Are you a full stop shop? Design to construction to operate?** Yes  No  *If so, please describe.*

Yes, we design the equipment, manufacture it all in house in North America, and assist with installation, and then fully commission and support ongoing operations for years.

**Do you have preferred partners?** Yes  No  *If so, please list and provide contact information/identify partners by name.*

Yes, Figure 8 Environmental, 3 Degrees, FSUI leasing, Rabobank, DLL Leasing, Bauer screw press

**Do you have any third-party verification/research that has been done on your technology?** Yes  No

*If so, please describe.*

Yes, we have had testing done by universities, plus many US lab analyses performed for our client farms. LWR has been validated for Methane Avoidance carbon credits by VERRA.

**Do you provide a performance guarantee?** Yes  No  *If so, what are you guaranteeing?*

*For example: up time, methane production, biogas production, parasitic load, throughput, O&M cost, percent recovery, other. Please describe.*

We customize the guarantee for the project/farm demands, and it often includes metrics like opex, water production, nutrient recovery, TSS removal, etc.

**Are there any other aspects of your business that you feel should be included in this document?**

LWR has systems in operations at farms for 10+ years. LWR has accumulated over 3 million data points from operation systems and is using AI to improve the opex and ROI of systems based on this data.

LWR has an app (myPlant) for ease of operation, plus a customer webapp portal to easily order consumables and track system value and ROI.

LWR can issue very unique high quality methane avoidance credits at approximately 5-7 per cow per year.

Is this technology currently operational on at least three North American dairy farms? Yes  No

Does this technology have a record of reliable performance for more than 12 months on at least three farms? Yes  No

Is this technology installed on at least 10 North American dairy farms? Yes  No

What are the Installed capital costs of this technology? Please clearly define what is and is not included, Ranges are acceptable.

Monthly leased costs based on ten-year leases

**Sprout**

Herd Size:100-200

\$3000-4000

**First Wave<sup>10</sup>**

Herd size 300-750

\$4,500-5000

**First Wave<sup>40</sup>**

Herd Size 500-1,200

\$7,000-\$8,000

**First Wave<sup>85</sup>**

Herd Size 1,000-3,500

\$9,000 - \$10,000

**First Wave<sup>185</sup>**

Herd Size 2,800 – 6,500

\$14,000-\$15,000

Plus PLANT 10 – 185 systems can be priced as adders.

What are the annual operating costs of this technology? Please clearly define what is and is not included, Ranges are acceptable.

~\$0.003/gallon for flocculant for the First Wave system. This is based on the influent Total Suspended Solids value of <3%.

What value does this technology or the products it makes, deliver to the farm? Please list identifiable economic, environmental, or community value (e.g. reduced cost, increased income, reduced odor, improved nutrient use, etc.).

Reduces volume of manure liquids and recovers solids from dilutes manure liquids leading to:

Reduced costs

Improved and segregated nutrient recovery for spreading

Reduced odors

Improved herd health

Improved crop growth due to nutrient spreading while the crop is growing

Reduced mastitis due to cleaner barns and clean liquids

Increased revenue from carbon credit sales

Increase herd size with no new land

Increased herd productivity

Is this technology eligible for USDA NRCS EQUIP funding? Yes  No

If yes, under what Conservation Practice Standard does it qualify? (e.g. NRCS Practice Standard: Waste Storage Facility (313))

Yes, LWR's manure-treatment system (which mechanically separates solids, produces a liquid nutrient concentrate and clean water) qualifies as an animal waste treatment facility, making it eligible for EQIP funding.

Typically, LWR installations would fall under:

NRCS 591 Amendments for the Treatment of Agricultural Waste

NRCS 590 Nutrient Management

NRCS Practice Standard 313: Waste Storage Facility: this covers storage and treatment facilities for manure/manure-laden liquids (e.g. manure pits, treatment basins). LWR systems align with 313 because they store and treat the waste stream [Natural Resources Conservation Service](#).

- Practice 367: Roofs and Covers, if manure solids or liquids are covered for storage or covers to capture biogas.
- Practice 558: Roof Runoff Structure, if roof runoff is managed in association with storage components.
- Practice 632: Waste Separation Facility.

Some states include Practice 632 Waste Separation Facility explicitly for tasks like solids separation. In any case, 313 is frequently the anchor standard with separations and covers added as needed

**Do you feel an in-depth Technology Information Request is needed to help people understand this technology?** Yes  No

*Newtrient has an extensive technical information request document that can be provided, it is based on the information requested for applications to the USDA NRCS EQIP program.*