

A close-up photograph of a person's hands holding a large amount of dark, rich soil. Numerous earthworms are visible, crawling through the soil. The person is wearing a blue shirt. The background is a blurred, warm-toned outdoor setting.

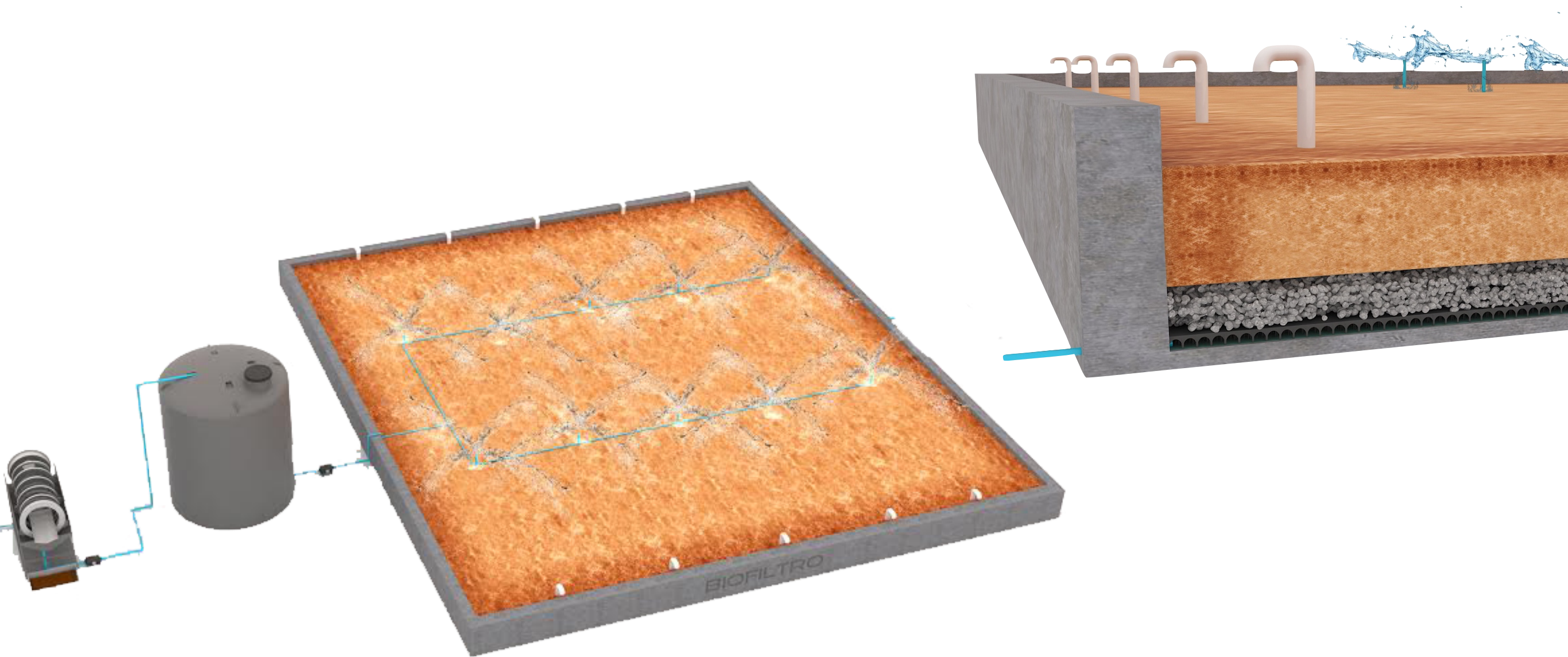
# BIOFILTERO

REVITALIZE WATER

Worm Powered Solutions for Circular Agriculture



Powered by earthworms and microbes, our patented Biodynamic Aerobic (BIDA®) System transforms wastewater into water apt for irrigation, worm castings and green house gas credits.





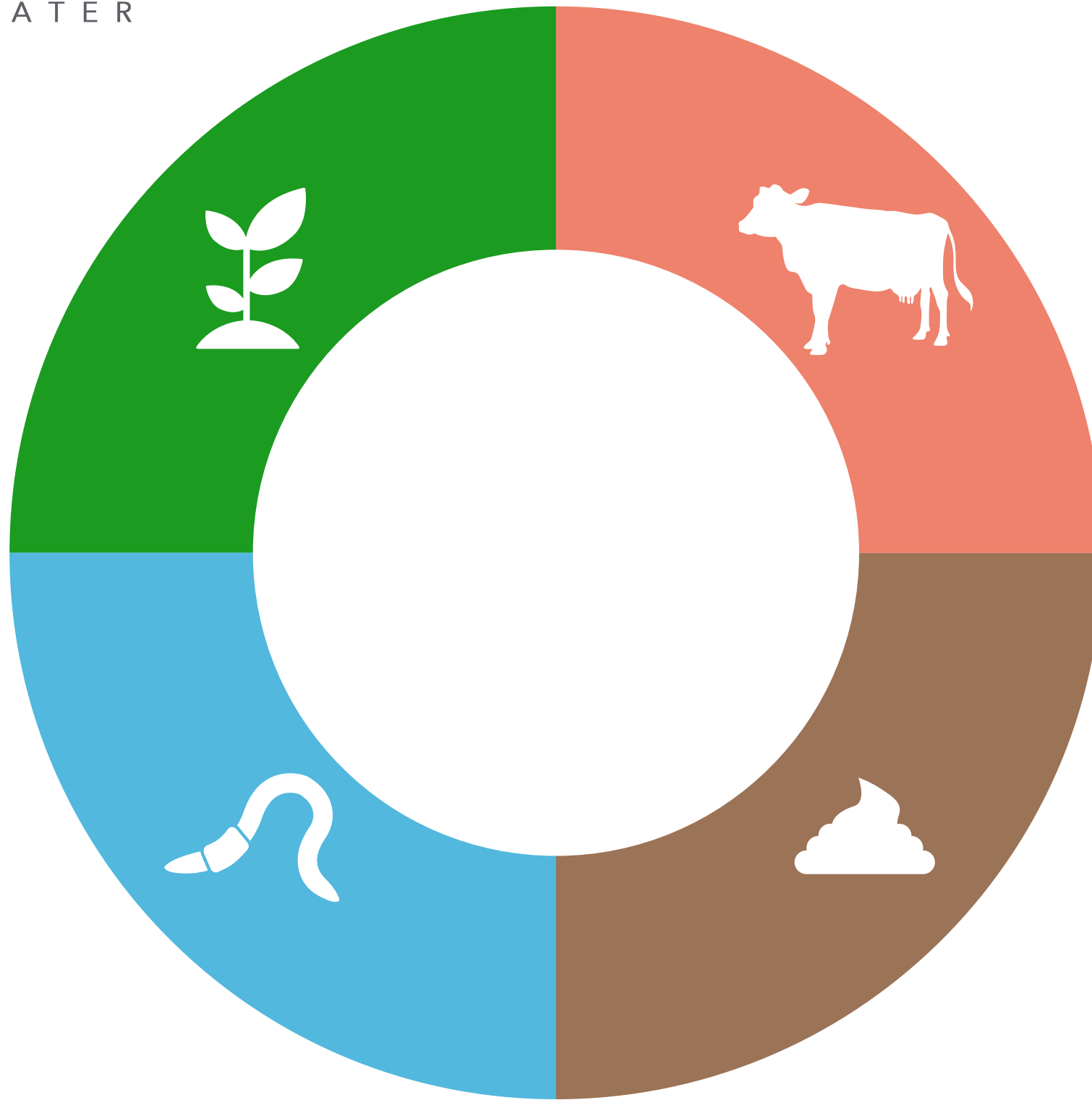
## Worms

- Break down solids
- Burrow – aerate and saturate
- Average lifespan of 6-8 years
- 200 – 400 hatchlings per worm per year
- Microbe rich castings - benevolent
- Stabilize local environment

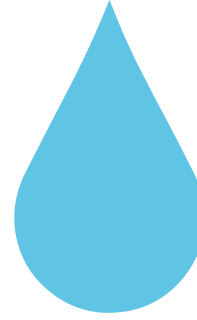
## Industry Specific Microbes

- Target soluble and dissolved solids
- Billions of colonies

Symbiotic relationship forms biofilm, a dynamic external digestive layer, across the system medias for bioremediation of waste.







With **cleaner water**, users can:

- Increase milk production if reused for flush due to ammonia reduction.
- Reduce acreage for land app by 70% and/or increase cash crop value
- Avoid clogging irrigation systems or having to dredge ponds.
- Reduce methane emissions from ponds by 90%



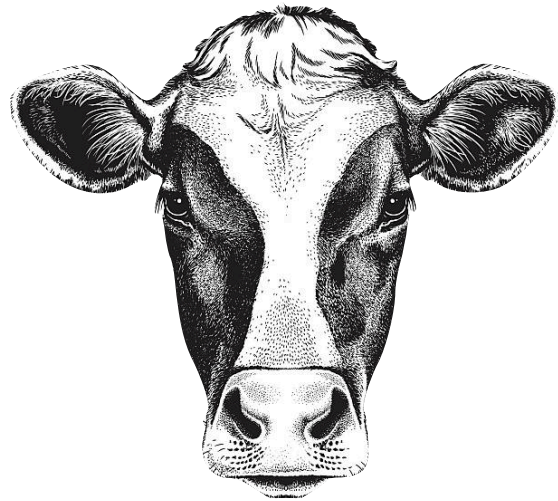
With **worm castings**, users can:

- Utilize the captured available nitrogen as a fertilizer to increase crop yield, carbon sequestration, and water retention.
- Generate alternative revenue stream if sold to farmers, marijuana, or gardeners.
- Eliminate costs if farmer already utilizes synthetic fertilizers.



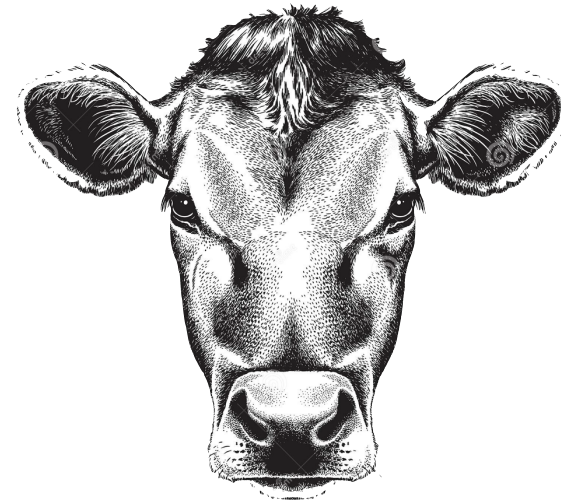
With **cleaner air**, users can:

- Qualify and monetize carbon credits
- Reduce odors from their farming operations



**Holstein**

8.2 tCO<sub>2</sub>/yr GHG Credit Per Cow



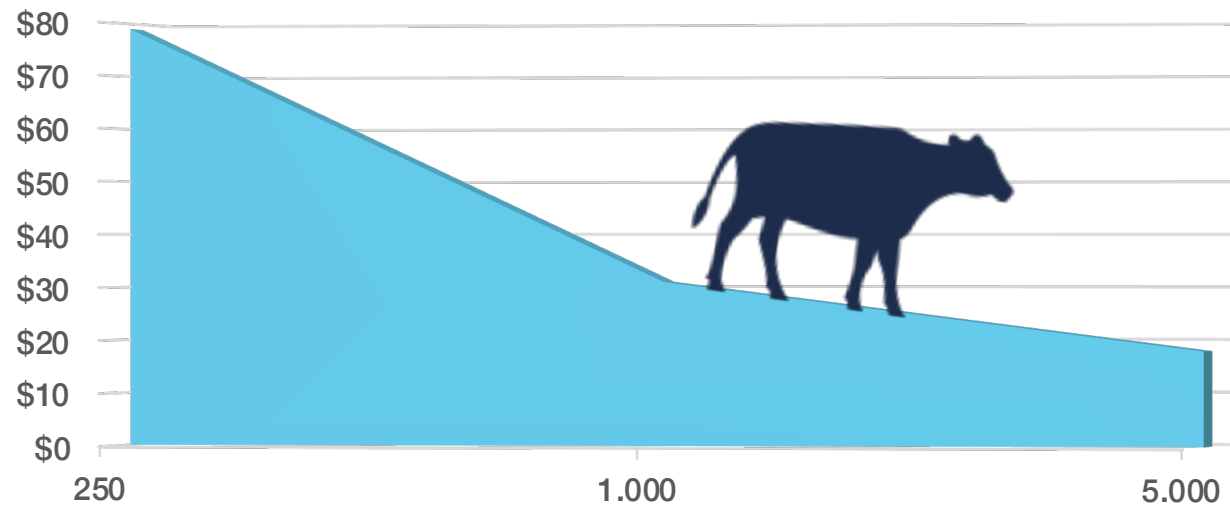
**Jersey**

5.6 tCO<sub>2</sub>/yr GHG Credit Per Cow

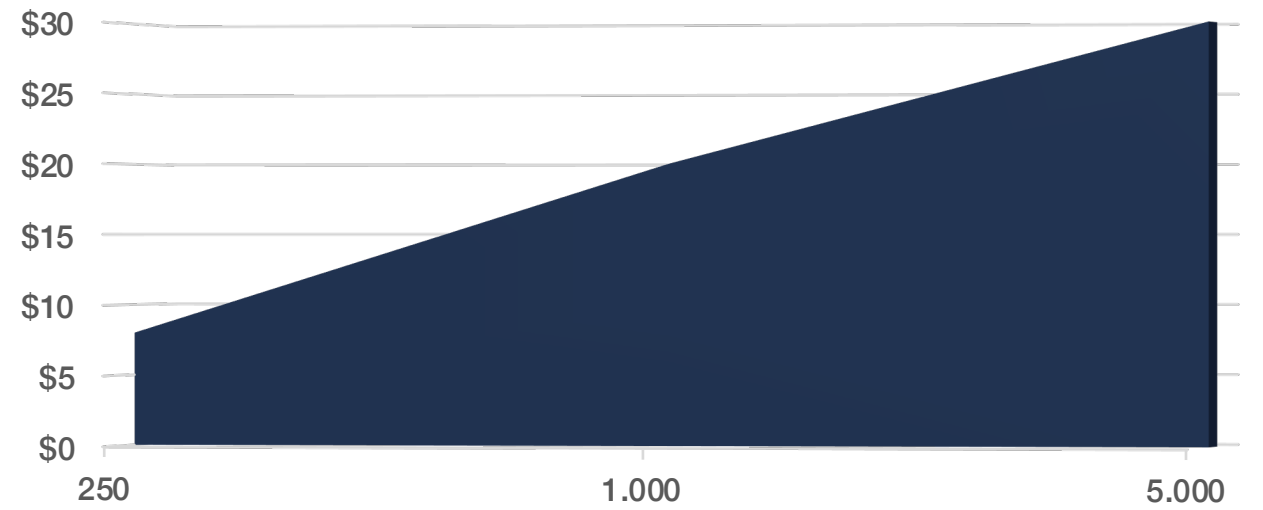
Systems for all dairies deliver 50% Total Nitrogen Removal  
and 3 yd<sup>3</sup> worm castings per year per cow



**Total Lifetime Cost Per Cow**



**Total Net Profit Per Cow**



**BIOFILTRO**  
REVITALIZE WATER

**INNOVATION**  
CENTER FOR U.S. DAIRY.  
HEALTHY PEOPLE • HEALTHY PRODUCTS • HEALTHY PLANET

Royal Dairy, Royal City WA

7,000 Milking Head  
Previously had facultative lagoons  
Required 4,000 acres and hauling for disposal  
Now needs 400 acres - all available onsite



**U.S. Dairy**  
**Sustainability Awards**  
Innovation Center for U.S. Dairy.

*"This is the first system we found that could provide an economical and efficient solution capable of cleaning our green water. The simplicity of using worms and biology is brilliant"*

- Austin Allred  
Owner, Royal Dairy

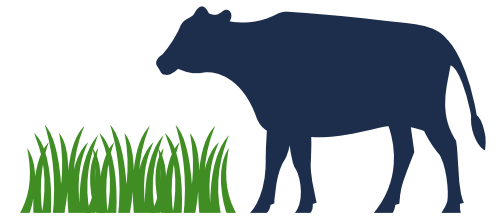








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REVITALIZE WATER



Thank You

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