

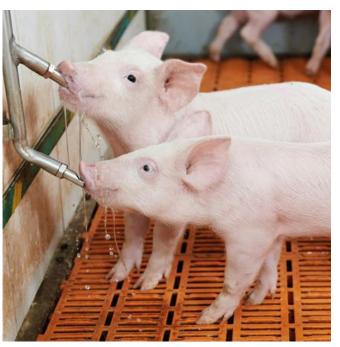
## SureCide AH Livestock Drinking Water Treatment Program: Healthier Animals Produce Better Results

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### Industry Background and Challenges

- Animal drinking water is a major source of health challenges
  - a) Water supplies (wells or city water) can contain microbes
    - > Bacteria, fungi (yeast and mold), viruses, algae, protozoa, etc.
  - **b) Animal drinking systems** make it easy for microbes causing diseases to grow and thrive by forming protective biofilms within the waterlines
    - > Water is slow moving/gets warmed encouraging microbial growth
    - The system may have many hiding places and dead ends niches
    - Drinking nipples connected to the systems/lines allowing microbes, their spores and food particles to transfer from animals to the water stream inside the line
      - Microorganisms of concern are: E. coli, Salmonella, Campylobacter,
         Clostridium septicum, Clostridium perfringens, Staphylococcus aureus, etc.





Drinkers Allow The Transfer of Bacteria From Animal to Animal Through The Drinking Water System



- Surecide AH is a chlorine dioxide based product
- Two part products (sodium chlorite and activating acid)
- Requires activation prior to use
- Activation is done automatically via an enclosed system to generate the stock solution – no manual mixing – no sachet packets – concentrated liquids are more cost effective and reliable than granular and tablet products
- Stock solution is then diluted automatically to 3-5 ppm total ClO2 (0.5 1.5 free ClO2) using flow controlled electronic metering pump or water driven volumetric pump
- The system is safe and easy to install
- CIO2 has a much wider pH span than chlorine and has 2.6x the oxidizing power – also helps control high pH unlike chlorine
- Minimal maintenance required
- Surecide AH is more cost effective than similar products in the marketplace

#### **Program Benefits**



- Continuous waterline sanitation eliminates the need for labor intensive line flushing – ensures water quality
- Improved feed ratio conversion (less feed/more weight) = more money for both the producer and the integrator
- Heavier animals
- Reduced risk of mortality caused by bacterial born diseases
- Robust farm level antimicrobial program that supports the ABF(Antibiotic Free) movement within the industry
- Grower Safety No manual chemical mixing required!

#### **Healthier Animals Produce Better Results**



## ClO2 Generator – Lafferty Equipment



- Low Cost
- Simple venturi dilution adjustable dilution ratios
- Automated- No Manual Mixing
- Double Float controlled
- Optional exterior venting port
- No electric required water only
- Smaller footprint than similar generators larger capacities available for large farms
- http://www.laffertyequipment.com/products/989316/
- Buy directly from manufacturer not Enviro Tech





# Electronic Metering Pump

More accurate than water driven medicators

Reliable – Water driven pumps are not made to run 24/7. They require a robust service schedule.



Chemistry never contacts the motor

Adjustable dilution ratios

Various pump sizes for large or small farms – pulse or 4-20mA input required

Lowest cost of ownership value on the market



Additional Animal Health Products

- Perafoam
- Perasan A –Peracetic Acid
- HydrogenPeroxide- 34% &50%
- Quat
- Floor Guard –
   beaded anti microbial floor
   treatment

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#### Industry Recognized

Allen Harim Farms

Perdue Farms – Delmarva

**Amick Farms** 

Rose Acre Farms

Miller Poultry

Cal-Maine Foods

**VALO BioMedia** 

**Cobb Vantress** 

Country Charm Egg

Jaindl Farms