

# SCALEBLASTER<sup>®</sup>

WATER CONDITIONER

## APPLICATIONS

*Sustainable Solutions to Hard Water Problems*

CLM-525

Hog Raising Operations



# Hog Raising Applications

**Wastewater Systems** – The build-up of Struvite (scale) in wastewater treatment systems can lead to great inefficiency within the operation. **ScaleBlaster** will eliminate lime scale and struvite build up in –

- Piping
- Pumps – Sump & Line
- Valves
- Agitation Pumps
- Effluent Irrigation lines
- Aerators

Cleaning of struvite (scale) build up requires acids and chemicals. In some instances, the piping and equipment require complete replacement. **ScaleBlaster** will eliminate this build-up.

Flushing systems for manure removal from livestock facilities use a large volume of water. Many systems recirculated lagoon effluent which can result in 'supersaturation' of ammonia, magnesium and phosphates – the components of Struvite Scale. **ScaleBlaster's** Electronic control system neutralizes the polarity of the molecular structure of these elements. Simple explanation – they will not stick to each other to form scale crystals – struvite or lime scale.

- Wastewater system do not need to be cleaned prior to installing **ScaleBlaster**.

**Drinking Systems** – Water hardness varies by geography, changing from *slightly hard* (3gpg/50ppm) to *rocklike hard* (>20gpg/>342ppm) within many states. Regardless of the hardness level, calcium will build-up in natural water systems. This lime scale accumulation affects drinker system water flow in two ways –

1. Equipment – Nipple drinkers, valves, medicators, flow meters, pumps and the general piping accumulate lime scale. **ScaleBlaster** makes the system cleaning cycle quicker and cheaper with the reduction of acids, chemicals and labor used in the cleaning/de-scaling of the system.
  2. Bio-film – Lime scale (calcium deposits) are harbingers for bio-film. Eliminating scale in the system reduces the accumulation of bio concerns.
- Drinking systems should be cleaned prior to installing **ScaleBlaster**.

**Cooling Systems** – Misters, evaporative cooling systems and wash down facilities are kept scale free. Valves in the fogging or mister systems are replaced less often. Cool cell pad systems last significantly longer. Reduction of scale in the water flow improves pump capacity and system longevity.

- Cooling systems do not need to be cleaned prior to installing **ScaleBlaster**.

**Animal waterers** - Scale control in the water nozzles and valves, which can stick opened or closed.

**Pen cooling misters** - Scale control in the water nozzles

**Water wall curtain cooling system** -The temperature in hog facilities is very important. If the animals get too hot they suffocate. To help control cost of operation and lower the air conditioning bill, a water wall curtain is used. This is a system that uses a heavy plastic panel like in cold storage warehouse doors to drive through. This water wall has a header applying streams of recycled water to the wall. The water collects in a trough at the bottom. As the water streams down the wall, the water cools air that is coming through the slits in the curtain. This does two things: it cleans the air and drops the air temperature. **ScaleBlaster** would prevent scale deposits on the header nozzles and on the wall itself.

**Waste management** - Waste management is a huge cost and a huge problem. Water is used to flush the floor and pen areas. The waste is directed to troughs and eventually to pits where it is lagooned for liquid application to fields. **ScaleBlaster** can prevent clogging of pipe lines, pumps, sensors, etc.

**Hog watering system** - Many of the health problems of the hogs stem from the water chemistry. **ScaleBlaster** offers lime scale control and better taste. Hogs will drink more, which is good for their health.



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