

WE SOLVE ODOR!

Take Back Control Of Odors At Your Facility
Increase Plant Capacity / Reduce Operating Costs



INDUSTRIAL WASTEWATER TREATMENT POULTRY PROCESSING



Maple Lodge Farms is the largest poultry processing plant in Canada. Recent growth in plant operations had led to an increase in load to their wastewater process which was causing regular WWTP upsets and overloads.

The Challenge/Problem

Increased chicken production was causing overloading of the wastewater plant, excessive sludge buildup, and odor problems.

- Plant upsets/overloading under various loading conditions (95% weekday load v.s. 5% weekend load were a regular occurrence).
- Pungent odors from the wastewater treatment system and lagoons were disrupting the neighboring community.
- Increased aeration requirements were causing higher operating costs.
- Sludge build-up in the settling lagoons was unsustainable and required frequent dredging which resulted in high operating costs.

SciCorp Treatment Plan and Execution

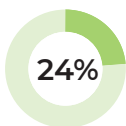
Maple Lodge connected with SciCorp seeking guidance for a sustainable solution. SciCorp engineers responded immediately and worked with Maple Lodge to assess the overall operations and to develop a treatment approach that involved the following:

- ✓ Application of a shock dose spraying BIOLOGIC™ SR2 over the surface of the aerated and settling lagoons
- ✓ Ongoing dosing of BIOLOGIC™ SR2 using a small metering pump based on the average hydraulic flow rate and the average BOD wastewater loading

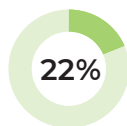
Success

Working with SciCorp, Maple Lodge operators were able to optimize their wastewater treatment facility resulting in the elimination of odors, elimination of WWTP upset occurrences and a measurable reduction in operating costs.

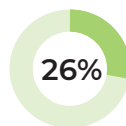
Long-term benefits included:



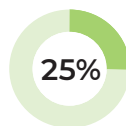
Increased treatment plant capacity without plant upset while maintaining final effluent quality



Reduction in aeration energy costs



Reduction in sludge generation



Reduction in polymer used for sludge dewatering

Elimination of malodors and significantly improved removal rates of BOD, COD, TSS, and Ptot.

Problems Avoided

As a result of their partnership with SciCorp, Maple Lodge was able to avoid:

- Wastewater capacity overload and limitations on chicken processing rates
- Odor complaints from neighbors
- High aeration and sludge disposal costs

www.scicorp.net

Contact our Engineers:

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