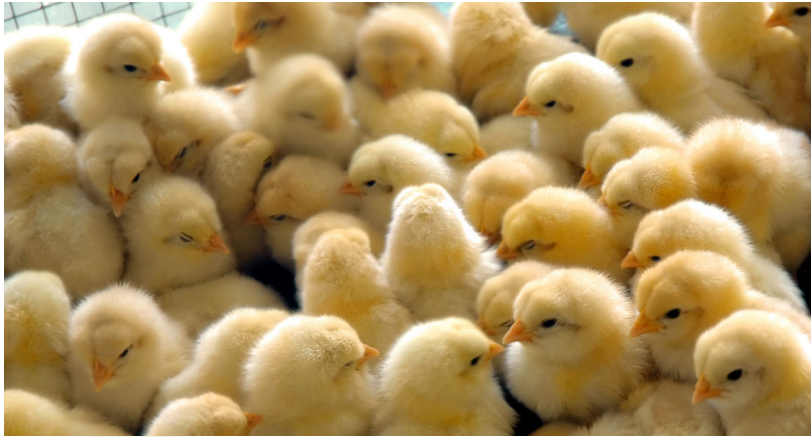


Poultry Odor Management

Worcestershire Broiler Grower, UK

Background



The farm is a family run contract grower supplying broiler chickens to a leading UK poultry integrator. They have an annual throughput of approximately one million birds which are grown via six week growing cycles in four sheds. All four sheds use wood shavings for bedding. Each cycle is grown from hatched to 35 days of age with no thinning.

Following the submission of a planning application to expand the facility, the Environment Agency (EA) started receiving complaints from local residents about unpleasant poultry related smells outside of the farm boundary. Many of these complaints were substantiated by EA officers at levels likely to cause annoyance and therefore the farm was breaching its Integrated Pollution Prevention and Control (IPPC) license.

Objectives

The EA required the farm to review its odor management practices and create an odor reduction plan to stop malodors from being detected outside of the farm boundary at levels likely to cause annoyance. Following numerous unsuccessful attempts to control the odor, the farm approached UK distributor Simply Environmental to help solve the problem.

Solution

BiOWiSH™ Manure and Odor Treatment was chosen as the product best suited to reduce odor generated by intensive poultry rearing. BiOWiSH™ is a composite biocatalyst, a unique blend of microorganisms, enzymes, and co-factors that helps to naturally break down organic waste and eliminate odor causing compounds at the source.

BiOWiSH™ Manure & Odor Treatment

- Removes rather than masks odors
- Reduces Volatile Organic Compounds (VOCs)
- Significantly reduces ammonia
- Accelerates the decomposition of manure
- Accelerates litter and carcass composting
- Reduces flies
- Safe for people and the environment

Available Sizes

- 1 kg/2.2lb
- 5 kg/11lb
- 10 kg/22lb



Implementation Program

The BiOWiSH™ powder (0.5 grams/m² shed area) was mixed with water (50 ml/m²). The solution was kept at 27-30 degrees Celsius and continually aerated for 12 hours prior to being directly sprayed to the litter in the growing areas via a standard knapsack sprayer. For best results, three applications were applied at 20, 25 & 30 days. The implementation program may vary dependent on the type of litter, species of bird, stocking density and crop length.

Results

Since implementation in January 2013, there have been no odor complaints substantiated by the EA at levels likely to cause annoyance, a positive outcome for the farm given the last crop of 2012 resulted in 31 complaints of which seven were substantiated. Moving forward, the farm's odor abatement program now includes BiOWiSH™ Manure & Odor as the preferred means to control odor, enabling the farm to operate within the terms of the environmental permit.

Testimonial

"If you want to try and stop neighbors from complaining or to satisfy the Environment Agency you need to reduce odor from your poultry, I haven't found anything better than or as cost effective as BiOWiSH™ Manure and Odor (Poultry) as recommended to me by Simply Environmental"

- **Pete Dorey, Farm Manager**

Conclusion

Be it to comply with your existing environmental permit conditions, or to allow for future farm expansion, BiOWiSH™ offers an effective technology for the management of odor in poultry farms at minimal cost.

After a short period of determining the optimal dosing rate of BiOWiSH™ to achieve the objectives, the farm can confidently continue to operate within the terms of the environmental permit conditions. The results to date have proven that the continued use of BiOWiSH™ can significantly reduce poultry odors and related complaints.

Contacts

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