



manure magic®

Optimizing Water Quality™



ManureMagic® eats into solids, liquefies manure and reduces odors. With more manure available for agricultural use, and enhanced manure storage capacity, ManureMagic® translates to fast ROI.

WHAT IS DRYLET'S ManureMagic?

ManureMagic is a dry-to-the-touch powder formulated with patented Micro Bioreactor (MBR) particles loaded with mixed microbial cultures that turbo-charge the natural process of anaerobic digestion in pits and lagoons. Every kilogram of product provides about 14 hectares of area covered with billions of beneficial microbes. Drylet's MBR particles provide bacteria with an ideal environment to reproduce at significantly accelerated rates, consuming and converting organic waste directly to gas and water.

HOW TO USE DRYLET'S ManureMagic?

Simply apply the product to pits after each pumping or flush. The product can also be added evenly across the surface of the lagoon, most easily by boat. In case of crusting or solids on the surface, break the layer with a pipe in order to inject ManureMagic directly into the liquid below it.

WHY DRYLET'S ManureMagic?

ManureMagic provides an innovative, user-friendly, eco-friendly, and significantly cheaper solids-removal alternative to the mechanical dredging of lagoons.

Manure from pits and lagoons can be pumped more easily and at a cheaper cost due to increased flowability and consistency. Consequently, higher volumes of manure can be made available for agricultural use, leading to expanded lagoon capacity.

ManureMagic also reduces hydrogen sulfide and odors up to 40% and 50% respectively, according to a Purdue University study. It helps keep neighbors happy throughout the year even when manure is being spread in the fields.

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A dose of 11 kg per 4500m³ in a dam filled at 32 000m³ capacity led to a 39% solids reduction in 120 days

Case studies show significant sludge buildup reductions in lagoons treated with ManureMagic

Case Study #1: floating solids disappear in 1 month

A large commercial hog operation was having lagoon troubles. Their main lagoon, which serviced five large barns with over 10,000 head, was overrun with solids build-up. It was creating odor and fly issues as well as a sheen that attracted unwanted wildlife to the lagoon. Several commercial solutions had yielded no success. The solids, odor, flies, and sheen were all being caused by nuisance bacteria. Just 22kg of ManureMagic were applied at a few points around the lagoon and in the center. One month later, floating solids were nearly gone and the sheen had virtually disappeared.



Picture 1. Lagoon before ManureMagic application (February)



Picture 2. Lagoon after ManureMagic treatment (March)

Case Study #2: over 60% solids reduction in one year

In May 2016, 57kg of ManureMagic were applied to the test lagoon fed by four 1,000-head hog barns at a major hog production company. Another 22kg were also applied to the barns' pull-plug pits over the course of four months. Lagoon sludge levels were measured in June, then in September, at nine identical locations in both the treated and control lagoons. The levels of the lagoon treated with ManureMagic were down 10% within a month, with each point falling between 15 and 30cm. By the end of September, they had dropped 42% on average, with individual levels dropping 45 to 76cm (see Figure 1). Measurements taken nine months later, in June 2017, revealed a further 44% drop average, with no product added over that timeframe, bringing the total reduction rate to over 60% in one year. Meanwhile, the control lagoon remained unchanged over the whole period.

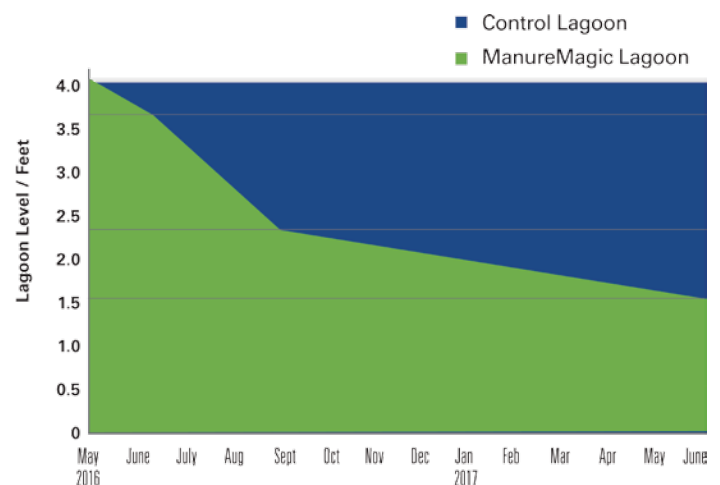


Figure 1. ManureMagic field trial compared two identical lagoons at 7-million gallon capacity at a major hog production company for a 4-month period. The biological process remained active after the end of the trial, with a drastic drop in sludge levels over 9 months after the last dose of product was added—this despite more solids being flushed in to the lagoon on a weekly basis.