



Case Study

Odor Control

Exetare-Profectio Partnership BioSystem

Kenneth Berg, General Manager
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FACILITIES

The facility houses 3,000 sows and 8,000 nursery pigs. The buildings have 24" pull plug pits that recharge from the secondary lagoon. The storage system consists of a 7 million-gallon primary and a 4 million-gallon secondary lagoon.

PRE-PITCHARGER ENVIRONMENT

This facility had been registered with the Minnesota Pollution Control Agency (MPCA) in 1999 due to violations of the state's odor regulations. The facility had gone one year without any biological treatment and was becoming odorous again.

PITCHARGER BIOSYSTEM ENVIRONMENT

PitCharger was added to both the lagoons and the buildings on June 6, 2001. Maintenance applications are currently being made through the buildings. A mixing/aeration system was added on July 21, 2001. Biochemical Oxygen Demand (BOD) values on that date measured 2,438 mg/L. BOD values dropped to 589 mg/L September 13, 2001. Hydrogen sulfide readings were correspondingly low in intensity.

CURRENT STATUS

The owner and barn manager believe that the odor levels around the facility are at their lowest levels since the operation opened. Correspondingly, the values of Biochemical Oxygen Demand have dropped significantly.

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