



## Rantoul IL

This industrial facility is a new pork processing facility that will start operations in 2023. This advanced pork processing facility is energy efficient inside the processing plant and outside the wastewater facility.

The plant is a two-stage facility that uses an anaerobic lagoon as the first stage design with methane gas recovery. After the first stage, the water flows into one of three cyclic aeration basins for TN control.

### OBJECTIVES

- Easy Installation of High-Capacity Aeration Diffusers and Blower System
- Coordinate Installation and Startup Issues Prior to Going Online
- Efficiency of The Aeration with The Fewest Number of Diffusers

### PERFORMANCE

Ammonia < 1.0 ppm  
TN - <10 ppm

### PRODUCTS USED

Strip Diffuser

### SUMMARY

The project scope was a CMAR design with the engineer and contractor. **Jaeger Aeration** supplied the equipment submittal, equipment supply, and advice on how to provide installation support.

Energy efficiency is a primary factor in the selection of the **OxyStrip** diffuser and the screw blower aeration system. The engineering firm installed a methane recovery system which will reduce the net carbon use of the plant to achieve the *net zero goal*.



**FINAL ASSEMBLY**



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