



CASE STUDY

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Lagoon Aeration

Mazzei Aeration System Solves Lagoon Odors and High Maintenance Problems

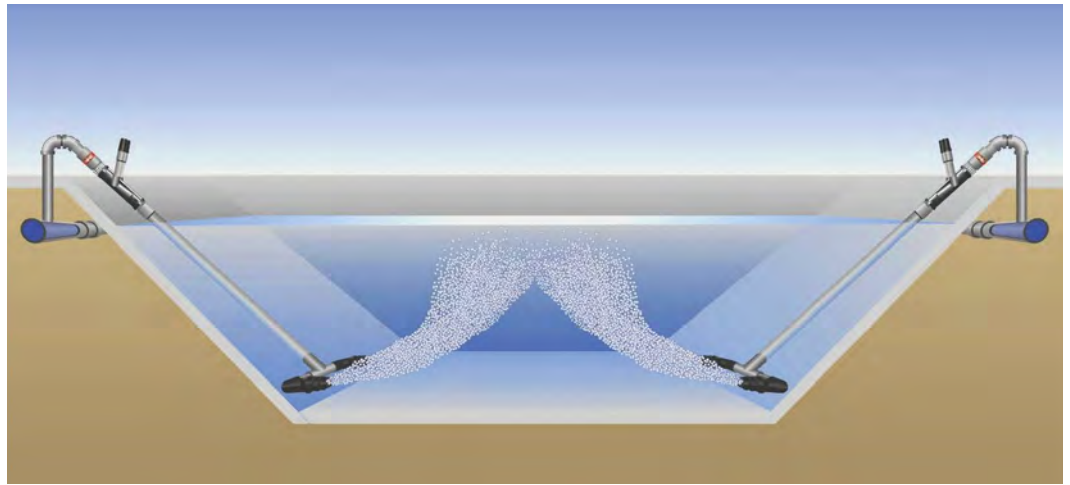
The Problem: A large vegetable processing facility was experiencing problems with its lagoon surface aerators. The company's treatment process includes a collection and screening assembly, two anaerobic stabilization ponds and a 40 million gallon aerated lagoon. The aeration lagoon is used for BOD reduction and polishing before the water is discharged to a near-by creek. Several surface aerators had been used to provide the oxygen in the aeration lagoon. However, the surface aerators were beginning to fail causing odor issues. This, along with ongoing high maintenance requirements, prompted the company to seek a new method for lagoon aeration.

The Solution: In 2004, the plant maintenance supervisor began replacing the surface aerators with the Mazzei venturi lagoon aeration system. Over the years, as the surface aerators failed, they were replaced with banks of eight Mazzei injectors and sub-surface nozzles. Each bank of injectors is powered by a 40 HP pump. These systems have delivered ample oxygen transfer, and have provided the plant's maintenance team with a solution to its lagoon aeration problem.



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The Results: When comparing the Mazzei system to the old equipment, the maintenance supervisor said that the surface aerators are “less reliable, require more maintenance, and you need a boat to get out to the middle of the lagoon in order to fix them—a real safety issue.”

The maintenance supervisor describes the Mazzei aeration system as “much better than the floating surface aerators,” noting that “since the equipment with the Mazzei is all land-based, and the only piece of equipment with moving parts is the pump, we are much happier with this system.”

To get a better understanding about how a [Mazzei venturi lagoon aeration system](#) works, take a look at this animation.



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