



Your California Authorized Distributor of Air Diffusion Systems (ADS)

Niner Wine Estates Case Study

Niner Wine Estates in Paso Robles, CA is one of the most environmentally progressive wineries in the world. In addition to pursuing LEED certification for the tasting room and winery, the owner and engineers took additional steps to reduce its impacts to onsite natural resources. One of the biggest environmental concerns with this 50,000 case per year winery was water availability to grow their grapes.

There was already a significant impact to groundwater resources from surrounding vineyards. It was decided that the winery wastewater would be recycled and used to supplement their groundwater supplies for irrigating their vineyards.

The challenge in this case was to design a system that would treat the winery wastewater to an acceptable level that would meet state mandated discharge requirements. In addition, due to the proximity to the Niner tasting room, the system had to be odorless and very quiet so as not to interfere with the ambiance of this beautiful winery.

The solution was **Air Diffusion Systems' (ADS) Aerated Facultative Lagoon System**. ADS was chosen because the system comes with a standard five-year guarantee package to be odorless and meet discharge requirements. This simple system accumulates little to no sludge and operates on 3-5 times less energy than surface aerators. These energy savings qualified the owner for an estimated \$6,000 rebate from PG&E and an approximate annual savings of \$17,000 when compared to surface aerators.



Influent Data

Average Flow= 5,000 gallons per day
Biological Oxygen Demand= 5,000 MG/L
Suspended Solids= 300 MG/L

Design Requirements

Biological Oxygen Demand= 200 MG/L
Suspended Solids= 200 MG/L

Niner Wine Estates Savings Profile*

ADS energy cost= \$5,700/year
(compared to Surface Aeration= \$23,000/year)

Annual Energy Savings= \$17,000

PG&E Rebate= ~\$6,000

Return on Investment= ~3 years

*** Based on: 12' water depth, \$.15/kWh**

Call EP Aeration today to find out more information about how we can reduce your wastewater liabilities!

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