

Aonair Wines

Napa Valley, California – USA

Client Profile: Aonair Wines is a limited production winery located in the rocky hills of Napa Valley. The boutique winery produces ear which are available exclusively through its wine club. Aonair elected BioFiltro due to its chemical-free, low maintenance process and minimal energy demand to treat 1,000 to 2,000 GPD of water.

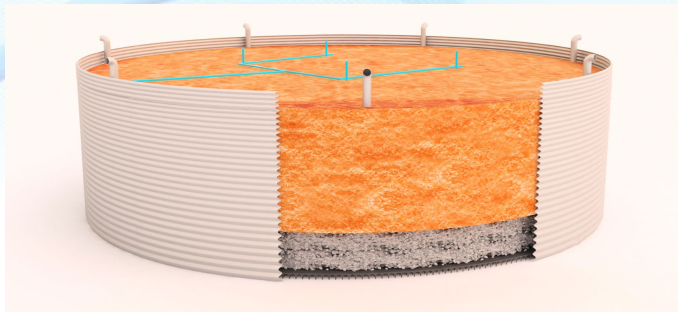


Average BOD Removal: 97%
Average BOD Discharge: 51 mg/L



Average TSS Removal: 94%
Average TSS Discharge: 9.0 mg/L

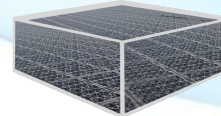
System Design: In order to deliver effluent compliant with 160/80 mg/l BOD and TSS vineyard irrigation regulations in Napa County, BioFiltro installed a double pass system to ensure high removal efficiency. Process water first flows from the winery into an accumulation tank where a 1/2 HP pump, triggered by a telemetry system, powers the irrigation system to disperse water across the surface of the first BIDA® System. Water gravity feeds through the medias and out into a secondary accumulation tank where it is pumped by another 1/2 HP pump into a second BIDA® System before gravity feeding into storage tanks. Each BIDA® System is housed in a corrugated steel tank approximately 20' in diameter and 5'9" feet high. The energy demand is ~0.0014 kWh per gallon treated and treated effluent flows out hours after being discharged from the winery.



Wood Shavings,
Worms, and Microbes



River Cobble



Drainage Basin

