

Cost-Effective Solutions for Land Developers

The Project:

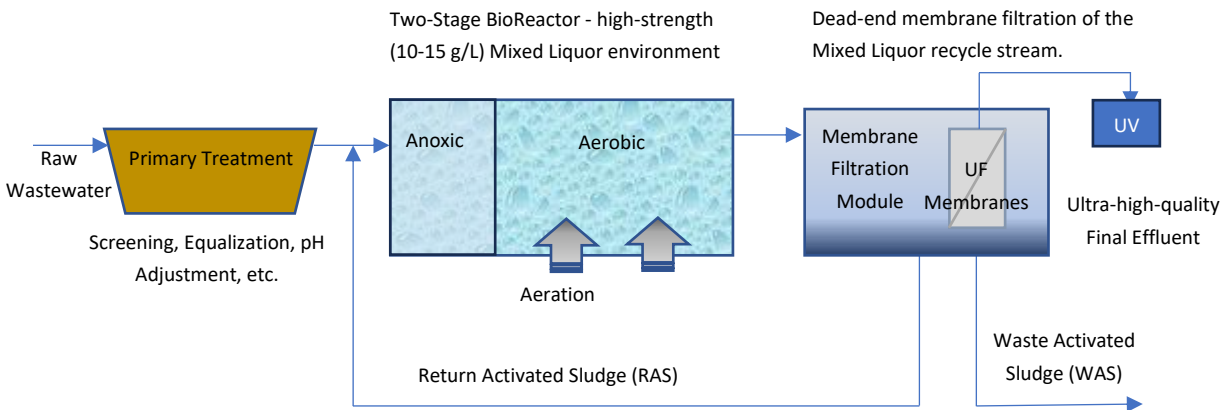


Situated in the historic town of Los Olivos, California, the Inn at Mattei's Tavern offers visitors to the Santa Ynez Valley a luxury experience in one of the state's most picturesque regions. The mixed-use development includes 67 guest rooms and villas, onsite restaurant, spa, and banquet facilities generating over 10,000 USgpd (40m³/d) of domestic and high strength wastewater. Located in a protected environment in the heart of the California Wine Country, the wastewater treatment targets were set to not only match the strict guidelines of Santa Barbara County but to also provide

the site with a continuous source of high-quality reuse water for onsite non-potable applications such as landscape irrigation.

The Solution:

Enereau was approached to supply its nrPUR™ Membrane BioReactor (MBR) technology for the project. With space at a premium, Enereau's compact MBR was the optimal solution. Below-ground installation was selected for the equalization and process tankage to conceal the system, allowing it to be located directly adjacent to the site's Spa facilities. A two-stage BioReactor with both Anoxic and Aerobic zones support the nitrification and denitrification conditions required to achieve the site's nutrient removal targets. Submerged hollow fibre UF membranes perform the final solids/liquid separation step, with the tight <0.1 µm pore size acting as an absolute barrier to solids leaving the system. A final UV disinfection step was installed to ensure the quality of the treated water discharged from the MBR.





Flexible design allowed for a compact configuration easily concealed from guests.



nrPUR™ Ultrafiltration (UF) Membranes consistently deliver reuse quality effluent.

Effluent Quality:

Parameter	Limit	Result	Unit
BOD	<10	<5.0	mg/L
TSS	<5	<5.0	mg/L
TN	< 10	<5.0	mg/L
Turbidity	<0.2	<0.1	NTU

For more information visit www.enereau.com or contact us at sales@enereau.com