



INSTALL TIME

8 HRS

HIGHLIGHTS

Project History :

Greenfield (2004), Greenfield (2014),
Conversion (2021), Parts Supply (2024)

Wastewater Type(s) :

Commercial

Application(s) :

Casino, RV Park, Restaurant

Discharge Type(s) :

Reuse

DESCRIPTION

The M|MBR team supported the Stillaguamish Tribe in building the first Angel of the Winds Casino wastewater treatment plant (WWTP) in 2004. The design capacity of that first plant was 50,000 GPD. Later, we helped to deliver a new, 80,000 GPD MBR system adjacent to the first plant in 2014. The old facility was decommissioned as a treatment plant and repurposed for sludge processing. In a 2021 project, working with the same owner, engineer, and operations company, M|MBR increased the WWTP capacity by 50%, from 0.08 MGD to 0.12 MGD. Most recently, in 2024, M|MBR installed BIO-CEL L+ membranes, replaced permeate pumps, modified piping, and updated controls. Membrane installation took roughly 8 hours and was coordinated with operations to minimize service disruptions.

In all, we have supported four significant MBR projects at this same location in support of growth and conservation goals.

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We're very satisfied with the membrane performance and the support we've received from the MMBR team (Mr. Tait Stahl). We wouldn't go anywhere else in terms of service.

Eric Thornburg, Angel of the Winds,
WA

2024 PROJECT OVERVIEW

Project Category : Aftermarket

Project Type : System Components

Scope : Turnkey

Previous Membrane : BIO-CEL L-2 (Flat Sheet, Polymeric)

Installed Membrane : BIO-CEL L+ (Flat Sheet, Polymeric)

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Results are site-specific and not a guarantee of performance; contract documents govern. Install time refers to the membrane changeout. Project history may include work by M|MBR team members before M|MBR Systems LLC was formed. Testimonials reflect individual views at the time given. Third-party product names are trademarks of their owners, used for identification only; no affiliation or endorsement is implied.