CASE STUDY

ECOPOD Offers Robust Treatment for Glamping Facility

San Bernardino, CA

SYSTEM SPECIFICATIONS
5,500 GPD Wastewater Treatment System

INSTALLATION DATE
Fall 2021

PRODUCTS
ECOPOD® Advanced Wastewater Treatment System

OWNER
AutoCamp

ENGINEER
Kimley-Horn

INSTALLER
Advantage Septic Systems, Hemet, CA

DESCRIPTION

A new AutoCamp glamping facility just outside the west entrance to Joshua Tree National Park in San Bernardino, California, required a wastewater treatment system that could handle daily flows from the 55 Airstream campers estimated at 100 gallons per day (GPD) per Airstream. Located in a sensitive environment that included large, mature tree growth, the system also needed to provide minimum disruption to the landscape and visual impact to guests.

San Bernardino County wastewater treatment regulations require NSF245 treatment. The system is also in the Joshua Basin Water District, which requires <10 mg/L TN effluent on top of the San Bernardino County requirements due to sensitive area.

An ECOPOD staged denitrifying system in Jensen Precast Tanks was selected based on the simple operation, minimal maintenance and robust treatment it could provide. Wastewater is piped to the 5,500 GPD ECOPOD treatment system from each of the Airstream locations and from a main building structure that houses a craft brewery, restaurant, and food commissary. The large precast concrete tanks were shipped to the jobsite. The 15,000-gallon BOD and Nitrifying ECOPOD reactor was battery style with three, 5,000 battery units, which were assembled at the jobsite. The ECOPOD reactors were installed inside two concrete tanks. One 5,000-gallon primary setline tank with an effluent filter and a second 3,000-gallon flow equalization tank with duplex time dosed pumps. Following installation, the top to the tanks were sealed. It then travels to a stone and pipe dispersal field.

Owner and engineer were happy with the robust and easy to operate system that required minimal maintenance and was designed to achieve the effluent total nitrogen requirement of <10 mg/L.

Scan this QR Code or visit QRCO.DE/JoshuaTreeCS to view the video version of this case study.

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