



CASE STUDY: PARADISE RANCH MOBILE HOME PARK

25,000 GPD MEMPAC™-E • Castaic Lake, CA

PROJECT TEAM:



Water Resource Engineering Associates
Engineer
Ventura, CA
805.653.7900
www.wreassoc.net



Waterworks Technology
Operations
Cornell Gillenwater
Ontario, CA
888.277.4677

OVERVIEW

- > Cloacina provided a 25,000 gallon per day MEMPAC-E with lift station and equalization transfer equipment
- > This system reclaims 100% of the treated effluent for on-site orchard irrigation
- > The MEMPAC-E is operated and maintained by park staff
- > Cloacina remotely monitors and controls all treatment equipment including the lift station and headworks with a grinder

DESIGN PARAMETERS

MODEL SUPPLIED

MEMPAC-E
Activated sludge with Biological Nutrient Removal (BNR)
Membrane filtration

INFLUENT PARAMETERS

DAILY FLOW	25,000 Gallons Per Day (GPD)
FLOW RATE	17 Gallons Per Minute (GPM)
INFLUENT BOD	300 mg/L
INFLUENT TSS	300 mg/L
INFLUENT TYPE	Domestic

EFFLUENT QUALITY

PARAMETER	DESIGN
BOD	<10 mg/L
TSS	<10 mg/L



For project videos, additional photos and more information, visit cloacina.com/paradiseranch

“

“One of our clients needed a wastewater treatment plant upgrade. We undertook the assignment to evaluate several small package plant systems. The outcome of the systems we reviewed showed that Cloacina’s membrane plant is the best product on the market...Its working components are state-of-the-art. Combining these benefits, along with the outstanding customer service, makes this our number one choice for wastewater treatment plant membranes. Thank you Cloacina. You are doing an excellent job!”



**Cornell Gillenwater, President
Waterworks Technology, Inc.**



CLOACINA SUPPLIED THE FOLLOWING FOR THIS PROJECT:

EQUIPMENT: Universal Blower Pac semi-sound attenuated blowers, flat sheet membranes, Vogelsang pump, Endress+Hauser equipment, Or-Tec screen, Ott diffusers

LIFT STATION: Packaged duplex lift station with channel grinder

HEADWORKS: Self-cleaning 2 mm perforated screen

SECONDARY TREATMENT: Activated sludge with BNR

CLARIFICATION: Flat sheet membrane cassette

CONTROLS: Powder-coated steel enclosure with Cloacina controls system integrating all on-site equipment

DISINFECTION: Integrated client's existing disinfection equipment

ADDITIONAL: Effluent is used to irrigate adjacent orange grove

