



PROJECT HIGHLIGHTS

- Commissioned June, 2016
- Domestic WW, Retrofit
- Permit(s): Discharge
- TN < 10 mg/l
- Seasonal Hotel treatment > Discharge to Groundwater
- MMF Capacity: 0.0285 MGD
- 0.5 FTE (Full-Time Employees)



“Retrofit with Ovivo MBR technology enabled the Eastham Four Points Hotel Complex to finally successfully treat their extreme swings in flow and loadings”

PROJECT OVERVIEW

System Type(s): Ovivo® MBR

Previous Facility Type: S&L FAST® Fixed Activated Sludge Treatment System

Owner: South Bay Hotels, LLC (during design / construction / startup)
JNR Management (current Owner 2017)

Engineer: Beta Group, Inc.

Contractor: Pride Environmental and Construction, Inc.

Operations: Bennett Environmental Associates, Inc.

Delivery Method: Pre-Selection

Time To Retrofit: 9 months

Total Installed Project Cost: \$12,000,000

DESCRIPTION

Ovivo's MBR facility replaced an S&L fixed activated sludge system at the site that was unable to handle the influent seasonal flow and loading variations for the Eastham Four Points Hotel Complex in Massachusetts.

Retrofit with Ovivo MBR technology enabled the them to finally successfully treat their extreme swings in flow and loading, which exist due to the Cape Cod summer tourist season (typically 1,000 gpd through winter, and 25,000+ gpd during summer). Ovivo manage to retrofit within the existing infrastructure of the old plant, providing a quick and reliable solution, and greatly reducing the projects overall capital costs.



PLANT DESIGN INFORMATION

Fine Screen Type : Bar Screen (FS)

Aperture or Slot Size : 2 mm

Supplemental Aeration Technology : Fine Bubble, Strips

MBR Blower Type : Positive Displacement

Solids Management Data : Hauling

SCADA System : Wonderware

Disinfection Method : UV

Process Stages : 3

MBR (MEMBRANE ZONE) DESIGN

Filtration Mode: Pumped

of Reactors: 2

Submerged Membrane Unit (SMU): OV400

SMU: 2

Design Flux (MMF): 3.31 gfd

Minimum Temperature: 10 °C

Peak Factor: 1.5

of Maintenance Cleans: 4