Palm Coast
FL, WWTP

OVIVO® MBR
ONE SYSTEM, MANY SOLUTIONS

PROJECT HIGHLIGHTS

- Commissioned : November 2017
- Domestic WW & New Construction
- Permit(s); Discharge-Surface Water
- 3/1/2 (TN/TP/Turbidity)
- MMF Capacity: 2.5 MGD
- $ 10.04/gal
- 0 FTE (not operational yet)

"Ovivo MBR provides the city of Palm Coast the opportunity to expand within a small footprint, and producing an effluent quality that nearly meets drinking water quality standards."

PROJECT OVERVIEW

System Type(s):	Ovivo® MBR
Previous Facility Type:	None
Owner:	
Engineer:	
Contractor:	
Operations:	
Delivery Method:	
Time To Retrofit:	
Total Installed Project Cost:	

DESCRIPTION

City of Palm Coast existing Wastewater Treatment Plant 1, was built in the early 1970s and has been gradually expanded over the years, but has nearly reached its capacity. The City of Palm Coast, was in need to incorporate a new facility to accommodate the city's anticipated growth.

Ovivo Membrane Bioreactor (MBR) technology was selected due to its advanced technology, its small footprint and reliability of meeting tighter limits producing an effluent quality that nearly meets drinking water quality standards. The primary method of disposal of this highly treated effluent will be for irrigation and groundwater recharge with the wet weather backup being a discharge to a wetland where the effluent can further enhance the environment.

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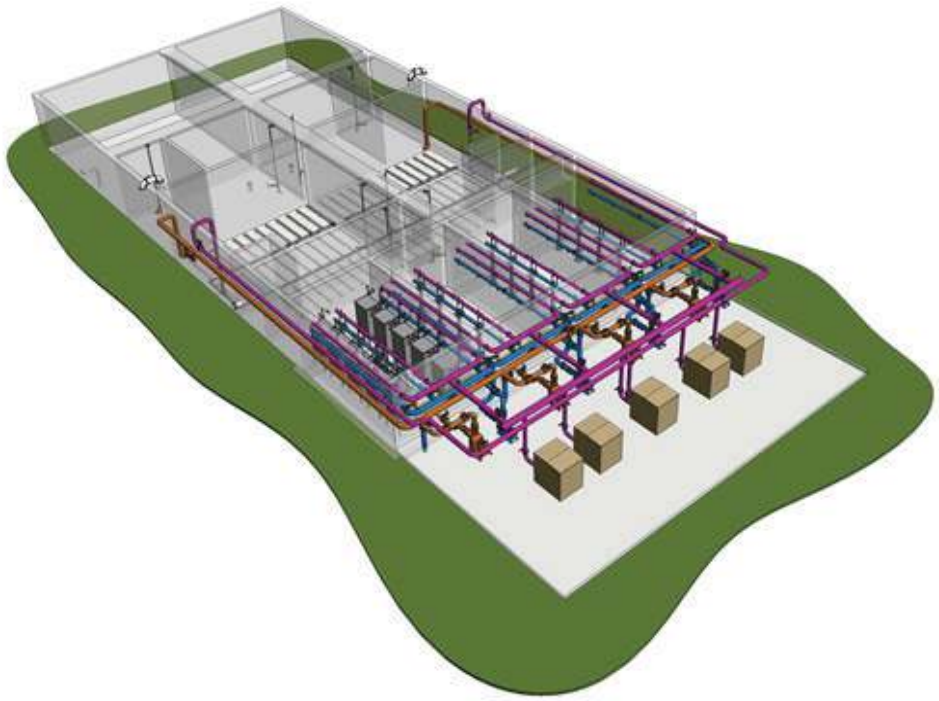

PLANT DESIGN INFORMATION

Fine Screen Type :	Rotary Drum Screen
Aperture or Slot Size :	2 mm
Supplemental Aeration Technology :	Fine Bubble, strips
MBR Blower Type :	Positive Displacement
Solids Management Data :	Belt Press
SCADA System :	PanelView
Disinfection Method :	Chlorine
# Process Stages :	5

MBR (MEMBRANE ZONE) DESIGN

Filtration Mode:	Pump Assisted Gravity (PAG)
# of Reactors:	4
Submerged Membrane Unit (SMU):	OV480
# SMU:	40
Design Flux (MMF):	14.52 gal / (ft^2 x day)
Minimum Temperature:	20°C
Peak Factor:	2
# of Maintenance Cleans:	4