

CONSERV II WRF PRELIMINARY TREATMENT STRUCTURE BIOFILTER ORLANDO, FL

FINAL PROJECT SCORECARD

- Controlled**
highest source of
odor
- System** in
service since 2000
- Biofilter H₂S**
removal efficiency
>99%

WEA was selected by the City of Orlando to complete an odor study at the 25 MGD Conserv II WRF to identify the highest sources of odor and to recommend improvements. Upon completion of this work WEA was selected to work with Ivey, Harris & Walls to design a cover system, air collection duct and biofilter for the existing preliminary treatment structure which was emitting high concentrations of hydrogen sulfide.



In-Ground Biofilter with Wood Chip Media

The project included the replacement of the existing mechanical bar screens (IHW), installation of approximately 2,000 ft² of removable aluminum covers over concrete channels, 700 ft of FRP and HDPE air collection ductwork and construction of a 2,000 cfm biofilter. In addition, surface sprinklers were provided for supplemental moisture. Construction was completed in 2001 at a total cost of \$375,000.