

# *Decentralized Wastewater Treatment and Reuse*



Pre-manufactured or site-built solutions for wastewater treatment. Perfect for:

- *Residential Subdivisions*
- *RV Parks & Resorts*
- *Replacement of Aging Systems*
- *Adding Capacity to Existing Facilities*
- *Areas Not Serviced by Public Utility*
- *Reclamation & Reuse Applications*

# Fixed Film and Activated Sludge Systems



## THE BENEFITS OF BIOFILM

“Attached growth” processes for wastewater treatment have been proven more resilient than typical “suspended growth” systems like activated sludge. This means easier operation and far less possibility of environmental compliance issues. Put simply, when the microbes treating the wastewater are in a biofilm state, they are very hard to kill and far more tolerant of adverse conditions.

## FIXED FILM MEDIA

These systems harness the benefits of biofilm to maximize the biological effectiveness of the treatment process. To do so, we submerge a growth media in the aeration basins where treatment occurs. The bacteria and other microbes attach to the surface, creating a biofilm, which enhances treatment and prevents upsets. Typically, no RAS system is required. So, one less thing to go wrong!!



## ACTIVATED SLUDGE SYSTEMS

Although we believe submerged fixed-film is the way to go for most domestic/municipal wastewater applications, many engineers, especially in the US, are more comfortable with traditional suspended growth systems. We are happy to provide these types of plants as well. Just talk to us about your preference!

**JT SYSTEMS LLC : 21175 Tomball Pkwy, Houston, TX 77070**

**Contact: Charles Gray, VP Business Development**

**Email: [c.gray@jtsutilities.com](mailto:c.gray@jtsutilities.com) | Ph: (713)320-3521 | [www.jtsutilities.com](http://www.jtsutilities.com)**