Wastewater Treatment Facilities
Providing Sewer Collection Services for over 28,600 Customers

West Regional WWTF
6.0 MGD AADF
Bardenpho Process

Central Regional WWTF
4.0 MGD AADF
Modified Active Sludge

South Regional WWTF
2.0 MGD AADF
Complete Mix Activated Sludge

Blue Cypress WWTF
0.017 MGD AADF
Extended Aeration

North County WWTF
0.850 MGD AADF
Extended Aeration
Flow is currently diverted to Central Regional

Sea Oaks WWTF
0.210 MGD AADF
Extended Aeration
Flow is currently diverted to Central Regional
Residuals Dewatering Facility

0.229 MGD AADF
Residuals, Septage and Grease Dewatering Facility

- Located on the Indian River County Solid Waste Landfill Facility
- Contractually operated by SYNAGRO on SYNAGRO equipment for IRCDUS
- Centrifugal Dewatering Process produces a 20 to 25% solid ‘Cake’ material
- Cake material disposed of ON-SITE at a Class I Landfill
- Liquid sidestream (centrate) is monitored on site and routed back to the West WWTF for treatment

Three (3) 100,000 gallon covered holding tanks with aeration and biological odor control

Centrate (liquid sidestream) on-site monitoring and routing to West WWTF for treatment

Centrifuge Dewatering

Septage Screening and Degritting

Dewatered ‘Cake’ material (20 to 25% solid) is disposed of ON-SITE at Class I Landfill
Residuals Dewatering Facility

Historically received hauled wastes from numerous counties, with Indian River County generated septage representing only 1/3rd of the total hauled septage brought to the facility for treatment and disposal.

The volumes of hauled wastes brought to the Residuals Dewatering Facility (domestic and non-domestic) from out of County sources resulted in erratic loadings to the West Regional WWTF, and episodes of permit non-compliance.

IRCDUS implemented restrictions on the wastes allowed at the RDF in May 2017, only allowing residuals from the County’s four Wastewater Treatment Facilities, and only those septage and grease wastes generating from locations within Indian River County.

This change has resulted in decreased septage tonnage being processed at the Residuals Dewatering Facility, decreasing the influent loadings to the West Regional WWTF, allowing for adequate wastewater treatment for the West Regional WWTF to maintain compliance with its discharge permit requirements.
Disposal of Dewatered Biosolids

Dewatered Biosolids material (Cake) disposed of at Indian River County Solid Waste Disposal District Landfill (Class I Landfill) on same site as Residuals Dewatering Facility

Dewatering equipment owned, operated and maintained by County contractor (SYNAGRO)

Biosolids dewatered to approximately 20 to 25% solid

Liquid sidestream (Centrate) routed to West Regional WWTF for treatment

No additional processing steps or trucking costs for the dewatered biosolids to be disposed of in the adjacent Class I Landfill

Cost effective approach for Indian River County Department of Utility Services and Rate Payers