

# Commercial and Municipal Wastewater Treatment and Disposal Systems

Turnkey Wastewater Treatment for Residential and Commercial Developments



*This Wastewater Treatment System in Comal County produces high quality effluent for 500 homes in a compact footprint.*

## Applications

- Subdivisions, apartments
- Schools, churches, businesses
- Golf course developments, resorts
- Manufactured home parks
- Municipal systems
- RV parks, campgrounds
- Rest areas, truck stops

Integrated  
**WATER**  
Services, Inc.

# Turnkey Wastewater Solutions

## Permitting, Design, Construction



The Crossings at Havenwood wastewater treatment system near New Braunfels was designed to be constructed in three phases, reducing the initial capital cost of the system by allowing the construction to be phased-in over the life of the development.

## Cost Effective

For more than 15 years, Integrated Water Services (IWS) has been providing wastewater treatment and effluent disposal systems for developments where conventional sewer systems do not exist and are cost

## Streamlined Process

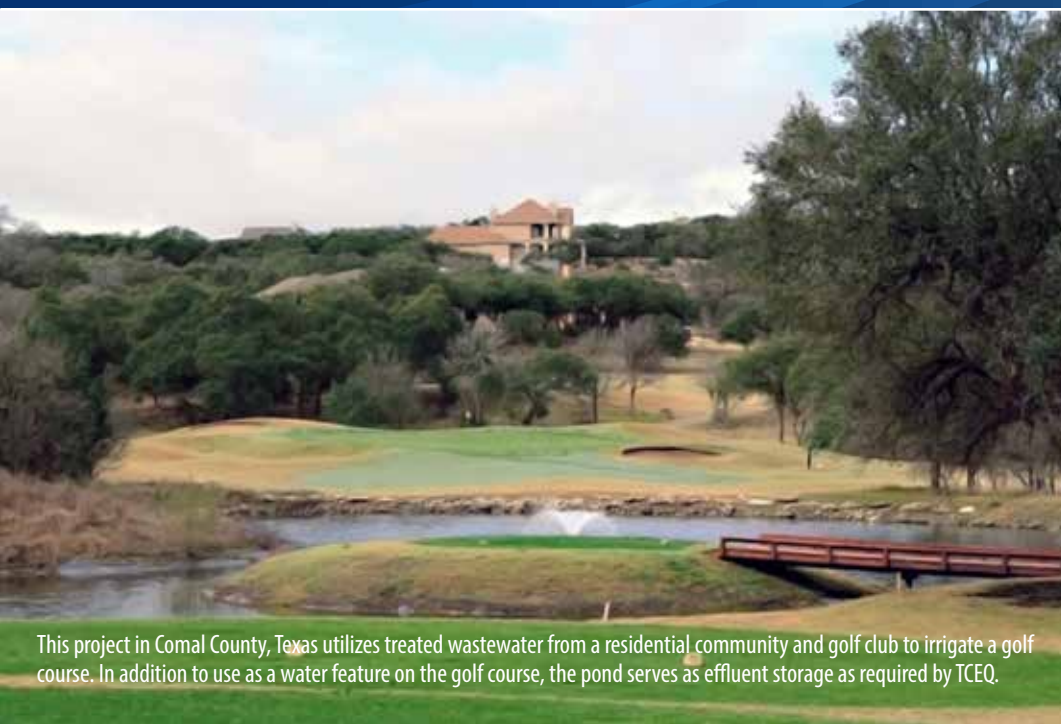
IWS works closely with the development project team and site engineers to provide specialized wastewater treatment expertise aimed at solving the wastewater challenges associated with the project.

## Cost and Performance Guarantee

By Providing a turnkey package including permitting, design, construction and start-up, IWS offers our clients a guaranteed maximum price to get a wastewater treatment system up and running.

## Treatment Plant Leasing

By Providing a lease option for select projects, IWS is able to significantly reduce the initial capital cost of the treatment plant.



This project in Comal County, Texas utilizes treated wastewater from a residential community and golf club to irrigate a golf course. In addition to use as a water feature on the golf course, the pond serves as effluent storage as required by TCEQ.





# IWS Specializes In Water and Wastewater



## Benefits

- Higher Development Density
- Lower Cost Infrastructure
- Ability to re-use treated effluent for beneficial purposes
- Scale over multiple phases to spread out capital outlays
- Shorter Implementation Timeframe

## Residential Communities



IWS designed and constructed an attached growth, packed bed media filter plant for the Crossings at Havenwood that was constructed in phases to reduce initial capital costs.

## Permitting & Design

IWS integrates seamlessly with the development and engineering team to handle the wastewater component of the project. In the design phase, we utilize our vast experience and relationships with leading equipment manufacturers to provide the most robust solutions for our clients. In addition, we have excellent relationships with TCEQ and in-depth knowledge of Texas regulations that enables us to quickly obtain regulatory approvals.

## Construction

IWS has been constructing water and wastewater treatment systems for over 15 years. We utilize our own equipment and our crews are experienced in all facets of treatment plant construction including concrete, mechanical, process, piping, electrical systems, utility building construction and earthwork.

## Estimating

IWS provides precise budget estimates for water and wastewater treatment and disposal options so that our Clients can accurately forecast financing and cash flow needs for their projects



The Crossings at Vintage Oaks utilizes STEP collection, MBR treatment and discharge via land application.



This planned Community near Boerne in Kendall County has a pressurized collection system, Activated Sludge treatment system, reclaimed water permit and discharge permit.



## Innovative Solutions

IWS is experienced in producing innovative solutions for wastewater treatment, collection, and effluent disposal; solutions that meet the topographical, geological and environmental restrictions of the project site in a cost-effective manner.

## Treated Effluent Re-Use

IWS understands the value to our customers and communities to be able to re-use treated effluent. We have designed and permitted multiple projects that treat wastewater and re-use the treated effluent for beneficial purposes such as irrigation.

## Alternative Collection Systems

The Hill Country's rocky, hilly, terrain makes it very expensive to construct conventional large-diameter pipe sewage gravity collection systems that rely on consistent grade and costly lift stations. IWS has designed and permitted collection systems that utilize small-diameter pipe, low pressure pump collection systems that are ideal for Hill Country topography because they are less costly to construct and do not require lift stations.



This Wastewater treatment plant in Kendall County, Texas is hidden from view by a retaining wall and below grade foundation.



Treated effluent can be used for beneficial purposes such as irrigation of landscaping and turf.



Septic Tank Effluent Pump (STEP) collection systems provide an economical alternative to conventional gravity collection systems in rocky, hilly terrain because they are shallow, small diameter pipe systems that don't require constant grade and they eliminate the need for manholes and costly lift stations. (Image by Orenco Systems)



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