

Genesis Water Technologies Domestic Waste Water Reuse System (DWRS)



About Us

Genesis Water Technologies, Inc. (GWT), is a USA based global water and wastewater specialist of innovative and advanced treatment solutions for water and wastewater treatment with specific solutions focused on domestic wastewater treatment and reuse applications.

GWT has its corporate office in Florida, USA with offices and channel partners across the world to serve industrial clients.

To learn more about us, please visit our website at:
<http://www.genesiswatertech.com> or request our companies capabilities presentation.

Specialized Market Segments

- **Domestic Wastewater Treatment & Reuse**
- **Municipal Wastewater Treatment, Recycling & Reuse**

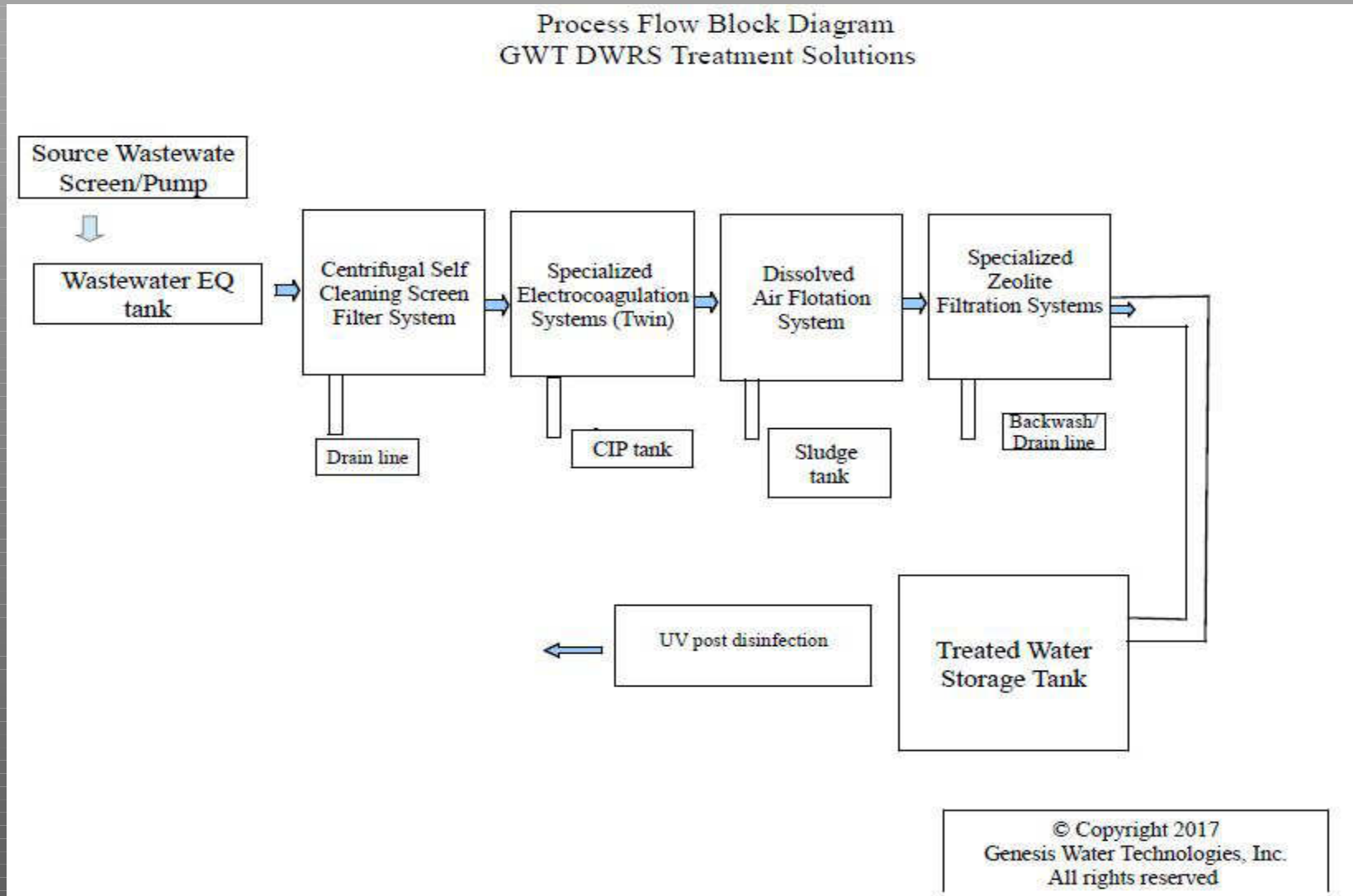
Modular DWRS Wastewater Solutions



GWT™ DWRS Systems

- GWT™ Series Domestic Wastewater Reclamation Systems (DWRS) incorporate advanced treatment technology in an essentially chemical free multi-stage treatment process.
- DWRS systems were designed with flexibility in mind and incorporate optimized treatment processes to handle domestic wastewater contaminants including TSS, phosphorus, BOD, COD, oil/grease, bacteria and ammonia nitrogen, for domestic wastewater treatment and non potable reuse applications.
- High performance system solution designed to meet the specific and unique challenges of domestic wastewater streams based on experience and collaboration with clients.
- Dependable deployment of modular based solutions based on flow rate with flow rates from 25 gpm (135 m³/d) to 3700 gpm (20,000 m³/d) and larger.
- GWT DWRS Systems can be retrofitted into existing domestic wastewater treatment systems for optimized performance to meet stringent regulations.

General System Diagram



System Subject To Change Based on Domestic Wastewater Profile and Client Requirements

GWT™ Water Treatment Solutions

We design and manufacture custom built modular domestic water and wastewater treatment systems with flexibility in mind to meet the needs and specifications of each clients domestic wastewater stream.

This includes removal or reduction of:

- Bacteria
- Suspended Solids including colloidal silica
- BOD/COD
- Phosphorus/Ammonia Nitrogen (based on system configuration)

Other water treatment solutions we specialize in:

- Specialized Filtration Systems
- Reverse Osmosis Desalination
- Specialized Natural Absorbent Medias
- Disinfection Systems

Domestic Water & Wastewater Treatment Experience

Sectors & Locations

- Hotels/Commercial Properties – Americas, Asia, Africa, Middle East
- Municipal STP – Americas, Middle East, Asia
(including retrofit/optimization of existing centralized/decentralized STP plants to meet more stringent regulations)

Prestigious Publications

Articles/Case Studies Published in Prestigious Worldwide Publications:

- Water & Waste Digest
- Water Quality Products
- Construction Review Online – Africa
- Environmental Expert
- Environmental Leader
- Everything About Water Magazine

Domestic Waste Water Treatment Challenges

We take on immense challenges that matter to our clients

- Water Treatment Recycling and Reuse
 - Water Resource Scarcity
 - Regulatory Changes
- Sustainable Environmental Remediation

Multi-Stage Treatment Process

The GWT™ DWRS treatment process is flexible and optimized to meet the needs and specifications of each client.

Systems can typically include the following processes:

- Specialized Filtration Processes
- Optimized Electrocoagulation Process
- Flotation Process
- MBBR Biological Process
- UV Post Disinfection Process

GWT™ DWRS Capability

- Turbidity <1 NTU
- Removal or reduction of suspended solids, viruses, turbidity, organics, BOD/COD, ammonia nitrogen, fats/oil/greases, and phosphorus.
- Maintain regulatory compliance with reduced operating costs versus conventional physical/chemical treatment processes.
- System provides a simplistic yet advanced solution for domestic wastewater recycling and reuse applications.

Case Study

Domestic Wastewater Case Study

Results based on specific case study water analysis – individual results may vary

Water Quality

Parameter	Unit	Before Treatment	After Treatment
Nickel	mg/L	26	< 2.35 mg/L
BOD	mg/l	300	< 15 mg/L
Bacteria/Coliform	UFC/100ml	>1000	ND
TSS	mg/l	100	< 5

Cost

Clients confirmed that GWT™ DWRS treatment cost are optimized for Opex costs and provide highly efficient and effective treatment performance to solve domestic water and wastewater treatment including decreased costs associated with sludge production, disposal costs and labor costs.

Summary

GWT Series Domestic Wastewater Reclamation Systems (DWRS) incorporates advanced treatment technology in a basically chemical free multi-stage treatment process with lower operating and maintenance costs.

The DWRS is flexible incorporating treatment processes to handle TSS, turbidity, BOD/COD, bacteria, ammonia nitrogen, and phosphorus typical in domestic wastewater to allow for non-potable water reuse applications.

Dependable deployment of modular based solution based on flow rate with flow rates from 25 gpm (135 m³/d) to 3700 gpm (20,000 m³/d) and larger.

The DWRS treatment can be integrated into existing municipal wastewater treatment processes to optimize treatment to meet more stringent regulations with typically lower OPEX cost.

Thank You

Genesis Water Technologies, Inc.
Web: <http://www.genesiswatertech.com>

Using Innovation To Meet The Water Needs of The World

