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DESIGN AND 3 Construction

NO MUNICIPAL WATER & SEWER?

The increased growth pressure that is occurring outside established metropolitan areas and in rural or island areas where no existing municipal water and sewer infrastructure exists has created a demand for alternatives.

CWS has developed innovative and customized solutions for providing community and commercial treatment systems that allow for development in areas that were previously restricted.

BENEFITS

Millions of people in the US, Caribbean and South America rely on community and decentralized systems to treat their wastewater. These systems will play an even greater role in the future by allowing development to proceed in areas that were not possible in the past and can be designed to perform under a variety of site specific conditions. These benefits include:

- Treatment systems can be skid-mounted, making them easier to install in remote areas
- Containerized systems, such as membrane bioreactors (MBR), are modular and expandable
- Installation either above or below ground, depending on the type of treatment system
- Higher treatment capacities in a compact footprint
- MBR systems provide high quality effluent suitable for many types of reuse applications. This can be a valuable resource in fresh water supply-limited areas.



WHAT IS A WASTEWATER COMMUNITY TREATMENT SYSTEM?

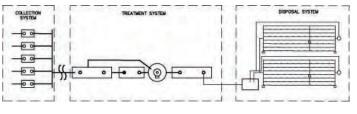
BENEFITS TO Developers:

Fast Approval

Added Density

Environment Friendly

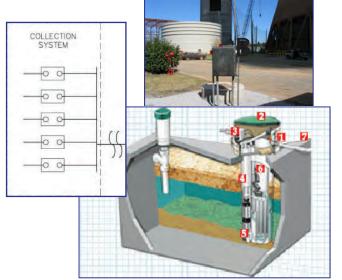
All community systems consist of three separate major components; collection systems, treatment systems and disposal systems. CWS provides options for each phase of community system and provides customized design so the final system will provide the most efficient, cost effective solution for the individual community.



COMMUNITY AND DECENTRALIZED WASTEWATER TREATMENT SYSTEMS, RAINWATER HARVESTING

COLLECTION OPTIONS

- Conventional gravity sewer sewers (8-inch minimum)
- Low Pressure sewers (steep terrain and rock)
 - 1. Enviro-One (E-One)
 - 2. STEP (Septic Tank Effluent Pumping-Orenco)
- Conventional Lift Stations



TREATMENT OPTIONS

- Central Septic Tank (convertible to aerated treatment unit)
- ATU (Aerated Treatment Unit-activated sludge process with clarifier)
- Trickling Filters
- Membrane Filters (membrane bioreactors)



Complete Water Services has developed innovative and customized solutions for providing community, resort and commercial treatment systems that allow for development in areas that were previously restricted.

DISPOSAL OPTIONS

- Infiltrator chambered leaching systems
- Drip irrigation systems
- Land application systems (spray fields)
- Re-use systems (golf courses, etc.)
- Gray water systems (landscaping)



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COMMUNITY AND DECENTRALIZED WASTEWATER TREATMENT SYSTEMS, RAINWATER HARVESTING

<u>A D V A N T A G E S</u>

- 1. Provide treatment optons for communities and resort facilities that are not connected to municipal treatment systems
- 2. Increase in property values by having sewered developments versus septic tank treatment
- Construction costs can be lowered by having pre-assembled treatment systems to allow for quick installation and system start up
- Community system construction costs can be offset by revenues from increased density of housing and facilities



DESIGN CONSTRUCTION

CWS has extensive experience with designing and installing wastewater systems, and specializes in providing customized pre-assembled wastewater treatment systems that simplify field construction activities. Systems include package pumping and filtration systems, pH adjustment systems (if required), membrane systems, and packaged wastewater treatment systems.

CWS professionals are hands-on, real world designers, professional engineers and operators who know what it takes to design and build practical, efficient and effective treatment plants, well suited for their purpose and setting. The type of collection, treatment and disposal systems are tailored to the needs and budgets of clients, given present and likely future application requirements.





COMMUNITY AND DECENTRALIZED WASTEWATER TREATMENT SYSTEMS, RAINWATER HARVESTING

FINDING REAL VALUE IN RAIN WATER

It has never been more important to work for environmental sustainability. Harvesting rain is a practice that has been around for centuries. Cisterns and other rain harvesting systems are widely used in Europe, Africa, Australia, India, the Bahamas, and countless remote countries many who depend solely on rain for day to day life. Today right here in the USA, we too can successfully harvest rainwater to meet many of our needs.

Anyone, from the individual who wants to use stored rain for watering plants to large companies that use grey water in toilets and sinks, can make a difference. There is a large array of rainwater catchment systems available.

Rainwater harvesting systems provide distributed storm water runoff containment while simultaneously storing water which can be used for irrigation, flushing toilets, washing clothes, washing cars, pressure washing, or it can be purified for use as everyday drinking water.

Small steps can make a huge impact. The Complete Water Services (CWS) team of professional water treatment experts will help you design the optimal rain water harvest system to meet your specific needs. We will supply the equipment and guidance in designing the ideal filtration system to meet your needs.

> From a simple barrel system to a complex underground rain water catchment system to selecting the right filtration and processing systems, CWS is your one stop supplier of material and resources to support your sustainable, efficient and effective rain water harvesting system. Saving you time and money while optimizing your use of one our planets most important resources - water.





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