

CITY OF ROSEVILLE water recycling

RECYCLED WATER
a Safe, Reliable Water Source

Every day, the City of Roseville's wastewater treatment plants capture, treat and convert millions of gallons of wastewater into recycled water.

Even in times of drought, there is an abundant supply of wastewater that can be recycled and used. Best of all, recycled water helps fight drought conditions by lessening the demand on our drinking water supply.



EVERYONE BENEFITS FROM RECYCLED WATER

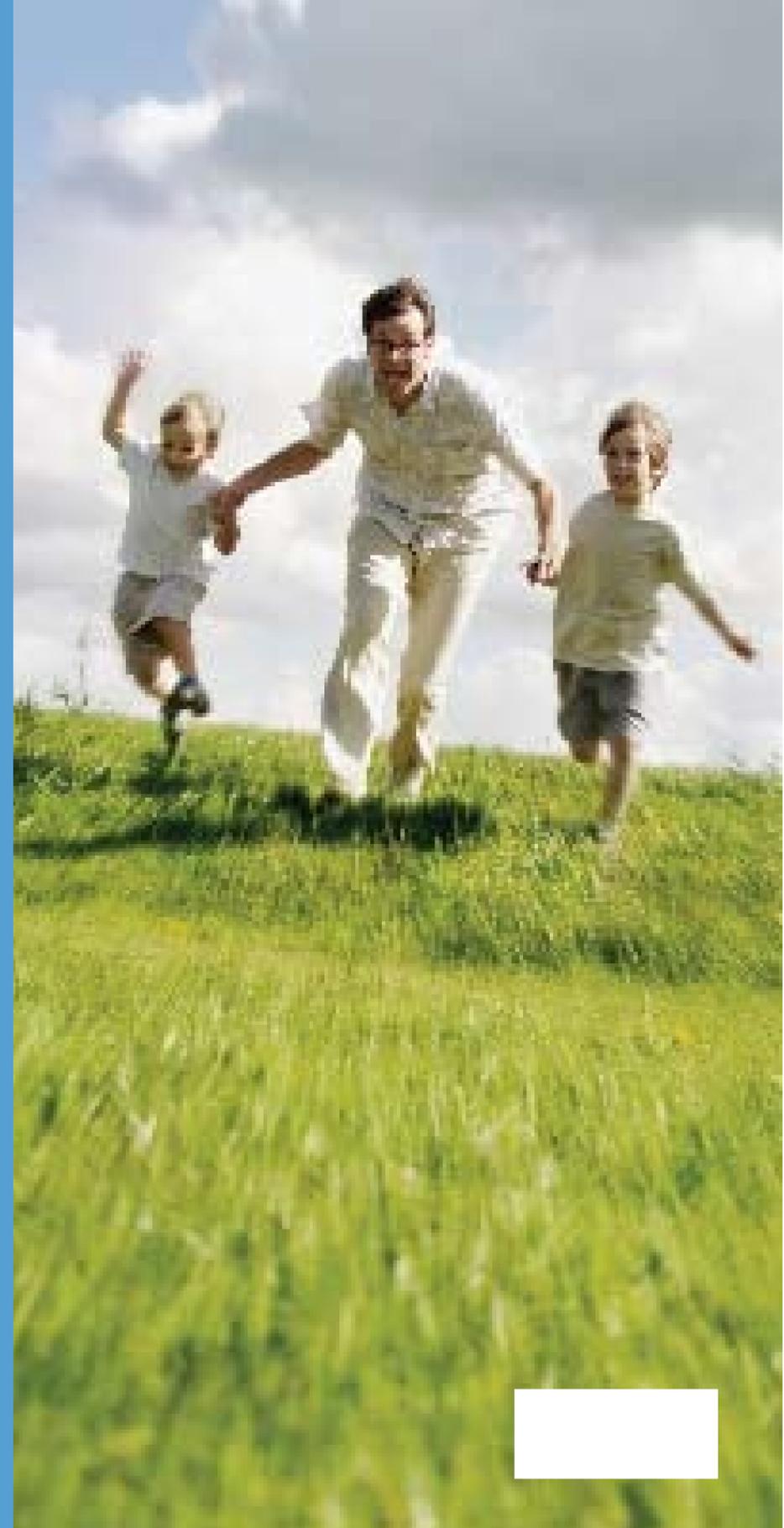
A program that began in 1997 with a single commercial customer has grown to become an important source of water. Each time a customer waters grass and plants with recycled water, it saves drinking water and helps keep our city green.



ENVIRONMENTAL UTILITIES

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water recycling





SAFE AND PURE Treating Wastewater to Sparkling Clarity

Recycled water is safe

If you look at a glass of drinking water and one filled with Roseville's recycled water, you won't see a difference. That's because we treat and disinfect wastewater to the highest level required by the California Department of Health Services, earning the state's approval to use our recycled water in many ways, except drinking. We also distribute our recycled water through purple pipes that are completely separate from the system that carries drinking or potable water.

How safe is it?

There has never been an illness traced to recycled water in California. While you should never drink it, Roseville's recycled water is completely safe for its approved uses.

How does wastewater get so clean?

Roseville's two treatment plants put wastewater through multiple steps to clarify, treat and disinfect it. By the time the wastewater reaches the end of the process, it is transformed into safe, recycled water to meet a variety of irrigation needs.

Monitored for quality

Each wastewater treatment plant features an onsite lab staffed by water quality experts. These professionals routinely test random samples, ensuring our recycled water meets the state's strict standards for purity.

The city is striving to meet 10 percent of its total water needs with recycled water.

It takes about a million gallons of water each day to irrigate a 170-acre golf course. That's enough water to meet the typical daily drinking water needs of 1,000 families.

INNOVATIVE AND PRACTICAL Putting Recycled Water to Work

Keeping our community green

Thick carpets of grass and lush landscapes are the two most visible benefits recycled water provides. In Roseville, we irrigate parks, golf courses, streetscapes and other lawns and landscape settings using recycled water.

Preserving drinking water supplies

Recycled water is also used in the cooling process for the Roseville Energy Park power generation facility. In addition, recycled water is commonly used to restore wetlands, irrigate crops and increase stream flow. The City of Roseville follows stringent guidelines that regulate where and how we use recycled water.

Protecting nature's delicate balance

The recycled water we don't use for irrigation or cooling at the Roseville Energy Park is released into Dry Creek and Pleasant Grove Creek. The surplus water enhances the aquatic habitat and fisheries, which helps sustain a healthy riparian ecosystem.

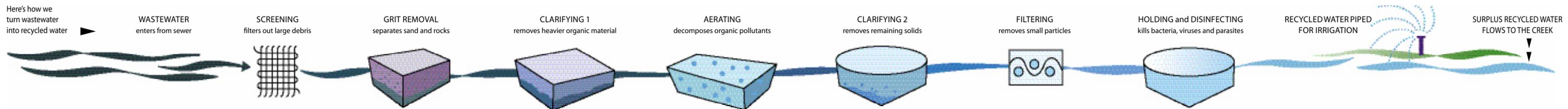
SMART AND ECONOMICAL Doing More for Less

Recycled water provides a top quality resource at a reduced price. We are able to keep costs low by modifying our existing plant and including the necessary equipment when building our newer plant. And because we build irrigation pipelines into our infrastructure, we've passed the savings on to our recycled water customers.

CITY OF ROSEVILLE A History and Future of Wise Use

Since we began our program in 1997, recycled water has played an increasing role in helping the city lower demands on precious drinking water supplies.

1993	The city undertakes the long-range planning, conversion and approval process needed to create and provide recycled water.
1997	The city's recycled water program is established. Recycled irrigation water is delivered to its first customer, Woodcreek Golf Club.
1998	Sun City Roseville begins irrigating its golf courses and public landscapes with recycled water.
2000	The city delivers more than 1,000 acre-feet annually to its recycling water users.
2005	The Pleasant Grove Wastewater Treatment Plant begins operation, adding a second source of recycled water for the city. Recycled water use tops 1,400 acre-feet the same year.
2007	The city conserves millions of gallons of drinking water by using recycled water in the Roseville Energy Park's cooling process. The total quantity of recycled water delivered was 2,400 acre-feet.
2010	Roseville's recycled water use is projected to reach 4,000 acre-feet per year. That's more than one billion gallons!



A gallon of recycled water used is a gallon of drinking water saved.

It's that simple. So the millions of gallons of recycled water we use each day means that same amount of potable water can be used for other purposes.

An acre-foot (325,000 gallons) is enough water to cover an acre a foot deep. An acre is about the size of a football field, so 1,000 acre-feet of water would cover a football field 1,000 feet deep.