



*Protecting Public Health and the Environment*

# Goleta Sanitary District



**Goleta Sanitary District's regional wastewater facility treats all the wastewater from the Goleta Valley. A portion of the clean and disinfected water is distributed back to the community as recycled water for landscape irrigation.**

## Recycled Water—18 years Supplementing Water Supplies in Goleta

Following the drought of 1986-1991, one of the worst droughts to hit the Goleta Valley in many years, the Board of Directors of the Goleta Sanitary District and the Goleta Water District worked together to bring recycled water to the Goleta Valley. Recycled water is the wastewater from the community that is passed through several processes designed to remove organic and inorganic material.

The treatment process begins with the primary stage where solids are removed using



**Dry cracked ground during drought.**

gravity followed by secondary treatment which uses biology to break down the organic material. Chemicals are used in the tertiary stage to remove the last bit of waste from the water. Finally it is disinfected to reduce bacteria concentrations to levels allowing it to be safely reused in the community, mainly for landscape irrigation.

In 1991, the wastewater treatment facility at One William Moffett Place was expanded to provide tertiary treatment to a portion of the secondary treated wastewater. The tertiary treatment structures are owned and operated by the Goleta Sanitary District while the Goleta Water District owns and operates the distribution system that delivers recycled water to the community.

The facility is capable of producing up to 3 million gallons of recycled water every day. Recycled water has become an important part of the water management plan for Goleta.

## \$30 Million Construction Project Progressing on Schedule

Construction to upgrade the wastewater facility to 100% secondary treatment began in May 2011 and has continued on schedule. It is approximately one-third complete and is still within the project budget estimated at \$30M. When the plant is completed and on-line, the expanded secondary treatment process will add a level of reliability to the daily production of the recycled water. No expansion of the tertiary portion of the treatment plant is included as part of this upgrade.



# Recycled Water Quality—Better than Required

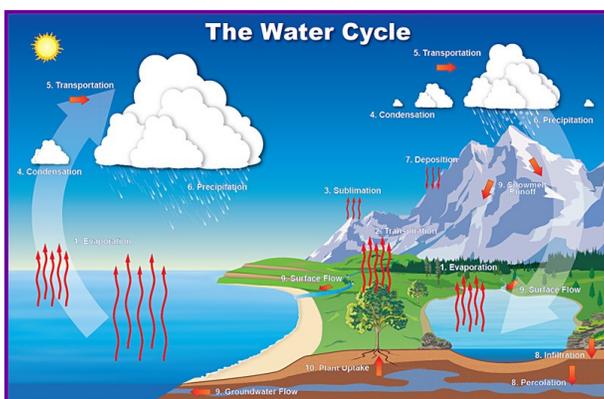
Constituents	Regulated Value	Measured Value Average for 2011
Turbidity	2 NTU units	0.6 NTU
Total Suspended Solids	10 mg/L	1.5 mg/L
Settleable Solids	0.1 mL/L	< 0.1 mL/L
Total Dissolved Solids	1,500 mg/L	1,200 mg/L
Cadmium	0.01 mg/L	< 0.0002 mg/L
Lead	5.0 mg/L	0.0003 mg/L
pH	6.5 to 8.4 pH	7.0 pH units
Total Coliform	2.2 MPN/100 mL	1.2 MPN/100mL
Chlorine	> 5 mg/L	13.5 mg/L

Recycled water must meet strict quality standards as defined by the State of CA Water Code Title 22 Regulations. The Regional Water Quality Control Board issued the recycled water quality requirements in consultation with the CA Department of Health Services. The secondary treated wastewater must meet stringent water quality standards before it even enters the tertiary treatment portion of the facility. The recycled water produced by the Goleta Sanitary District has consistently met all of the recycled water quality requirements over the years. This has allowed a continuous supply of recycled water to be available to the community without a disruption of service.

Laboratory testing ensures that the water is treated to a level that is appropriate and safe for its intended use. Although the recycled water from the Goleta Sanitary District is disinfected and testing for coliform bacteria regularly shows that no coliform bacteria is present, this recycled water is not suitable for drinking.

**NTU—Nephelometric Turbidity Units, the unit of measurement for turbidity.**  
**mg/L— milligrams per liter, also known as parts per million**  
**mL/L—milliliters per liter**  
**MPN/100mL—Most Probable Number per 100 mL of sample**  
**< - mathematical symbol to indicate “less than”**  
**> - mathematical symbol to indicate “greater than”**

## What is Recycled Water?



The water cycle is nature's way of recycling and purifying water so that it can be reused by plants and animals.

All water on earth is recycled water. Water you are washing with today may have been used by a dinosaur millions of years ago! The wastewater treatment process in place at the Goleta Sanitary District uses the same biological, chemical and physical processes used by nature to purify water. It's just done more quickly and on a much smaller scale.



*In the United States, recycled water has been safely used since 1929, with no known cases of illness or allergies as a result.*

## Recycled Water Available Throughout the Goleta Community

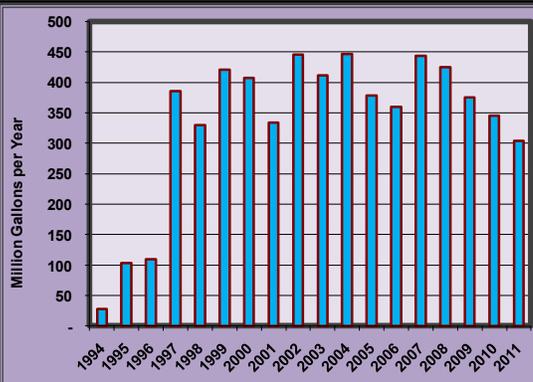


The recycled water produced at the Goleta Sanitary District is treated to a level to make it safe for use in the community. It is used for landscape irrigation at Goleta Beach, local golf courses and at UCSB. Some newer buildings have been designed to use recycled water for toilet flushing. Tests are performed daily at the District's certified laboratory to ensure a high quality and safe water product.



**Purple is the color code for recycled water.** A separate distribution system built of purple pipe transports recycled water to sites where it will be used.

**Total Annual Recycled Water Production from 1994 to 2011**



GSD can produce up to a maximum of 3 million gallons of recycled water every day. Since the recycled water facility was first put into operation in 1994, a total of approximately 6 billion gallons of reclaimed water have been produced and made available to the community. This freed up 18,500 acre feet of potable water that could be used for other purposes.

The Goleta Sanitary District and Goleta Water District continue to work together at all levels to coordinate the operations, maintenance and budgetary needs to ensure a safe and reliable supply of recycled water for the Goleta community for years to come.



# Goleta Sanitary District

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## *Protecting Public Health and the Environment*



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## Board Meetings

The District's regularly scheduled Governing Board meetings are at 7:30 p.m. on the first and third Monday of every month. Public is welcome.

## The District's Collection System Wins "Best in the Tri-Counties" Award



From left: Alex Bautista, Justin Graves, Juan Ramirez, Luis Astorga, Loren Berringer. Not shown: Mario Ortiz and John Corral, Collection System Supervisor.

In addition to many of its past local, state and national awards the District is pleased to announce that the collection system was voted the "Best Collection System of the Year" in the Tri-Counties section of the California Water Environment Association for 2011.

The award recognized the unique ability of the collection system employees to implement the collection system operations and maintenance program in such a way as to result in no sewer spills within the District's service area over the past 2 years. Their diligent hard work, "can-do attitude" and innovative approaches resulted in the most successful field operations in the Tri-Counties keeping the streets of Goleta safe.

*Congratulations Guys!*

**Do your part** in keeping the environment clean. Don't dump your household hazardous waste down the drain. Take it to the free Community Hazardous Waste Collection Center on the UCSB campus, Mesa Road, Building 565. For more information call: (805) 882-3602 or visit:

[www.LessIsMore.org](http://www.LessIsMore.org)

