

## 2009 Annual Reuse Report

Customers in the City of Dunedin can rely on high quality reclaimed water suitable for landscape irrigation. Reclaimed water is treated through advanced technical processes designed by engineers, operated by highly skilled and licensed City staff, and tested in sophisticated laboratory processes. The utilization of the City's reclaimed water for landscape irrigation is safe for the protection of the environment and the public health. The City's reclaimed water program is an important component in the conservation of groundwater needed to sustain your drinking water supply for future years. This 2009 Annual Reuse Report provides specific information on the quality of reclaimed water supplied to customers in the City of Dunedin.

Reclaimed water is a product of treated wastewater collected from homes, businesses, and the by-product water from the City's reverse osmosis water treatment plant. The wastewater flows through sewer mains and pumping stations to the City owned and operated Advanced Wastewater Treatment Facility. This facility operates 365 days a year, 24-hours a day, and is operated by technically skilled operators, mechanics, and technicians committed to providing City customers with superior reclaimed water. The wastewater moves through numerous treatment processes to remove odor, oils and grease, organic matter, solids, nitrogen, phosphorus, metals, bacteria and other contaminants.

The resulting reclaimed water meets all state standards for use as landscape irrigation water. Reclaimed water is then pumped to customers and to four storage tanks located throughout the City.

The City of Dunedin Reclaimed Water Program received cooperative funding from the Pinellas-Anclote River Basin Board of the Southwest Florida Water Management District.

## Conservation

### **WATER – TOO VALUABLE TO BE USED JUST ONCE**

The monthly rates for reclaimed water to properties located within the City limits were originally established in 1992 and are listed below. These rates remain unchanged for customers who do not overuse reclaimed water during the dry season.

Reclaimed Water Used	Cost Per 1,000 Gallons
First 15,000 Gallons	\$0.50
15,001 to 125,000 Gallons	\$0.25
Over 125,000	\$0.10

### **Billing Questions?**

**Please Contact Utility Billing at: (727) 298-3024**

## Dry Season Conservation

The amount of reclaimed water allocated to a customer in the dry season months of February 1st thru June 30th are based on the customer's previous irrigation acreage. The day and time you are scheduled to irrigate is based on the zone where your property is located in the City. To determine the previous acreage, zone and watering times for your property, please visit our web-site (See Web-Site Information) or call the Water Division at (727) 298-3100.

Customers who exceed their dry season allotment will incur an overuse surcharge fee of **\$2.00** per thousand gallons of overuse.

*The overuse surcharge fee approach does not raise the cost of reclaimed water for customers irrigating within their dry season monthly allocation.*

## Benefits of Reclaimed Water

- ✓ Lessens the demand on potable water sources for irrigation ensuring sustainability of water resources for ourselves, our children and generations to come
- ✓ Recycles water & diminishes discharge in St. Joseph Sound
- ✓ Enhances property marketability

## Do's and Don'ts

### **Do's**

- ✓ Wait until the rainy season (July - December) to plant new sod, annuals, perennials, and shrubs.
- ✓ Water no more than 3 days per week and no more than 2 hours per day.
- ✓ Follow your assigned irrigation schedule from February through June.
- ✓ Be a community team player and irrigate responsibly.
- ✓ Select drought tolerant plants for your landscaping.

### **Don'ts**

- X Don't irrigate at any time on Wednesdays**  
**This is a City Wide Maintenance Day.**
- X Don't irrigate between 9:00 A.M. and 6:00 P.M.
- X Don't irrigate between 10:00 P.M. and 5:00 A.M.
- X Don't plant during the DRY SEASON; there may not be adequate water to keep the new plants alive.
- X Don't over water or you can cause fungus, dollar weed, root rot, and other landscape problems.

## Web-Site Information

**The Official City of Dunedin Web-Site is located at: <http://www.dunedingov.com/>**

You will find a great deal of information on our site regarding services and activities available within the City.

**To determine the amount of reclaimed water allocated, the zone and/or the watering times for your property from our website, please follow the instructions below:**

Click on **Public Works & Utilities** in the Gray area on the left side of the screen.

Then Click on **Reclaimed Water** at the top of the page or **Reclaimed Water Division** under the Reclaimed Water Division section.

The **Reclaimed Water Availability** page is then displayed. Scroll down to view information on rates, watering schedules and zones.

**If you have any questions please call our office at: (727) 298-3100.**



# City of Dunedin: 2009 Report to Consumers on Reclaimed Water

## Reclaimed Water Quality

The source of the City's reclaimed water is the wastewater from residences, businesses, and the City's reverse osmosis water treatment plant. Anything poured down the drain or naturally occurring in the groundwater can become a component of the raw wastewater that is treated at the City's Advanced Wastewater Treatment Facility. Contaminants that may be present in the source water for reclaimed water include:

Microbial Contaminants, such as viruses and bacteria, which may come from human, animal, or food waste products

Inorganic Contaminants, such as salts and metals, which can be naturally-occurring or result from stormwater inflow, industrial wastes, or residential uses

Pesticides and Herbicides, which can result from stormwater inflow, commercial and residential uses

Radioactive Contaminants, which can be naturally occurring

In order to ensure that reclaimed water is safe for landscape irrigation, the Florida Department of Environmental Protection establishes strict regulations which limit the amount of certain contaminants in reclaimed water. Over 130 compounds were evaluated for this reclaimed water report. Only those substances listed in the table below were found in the reclaimed water. These laboratory results indicate that the City's reclaimed water is safe for landscape irrigation. Definitions of terms and abbreviations found in the report are provided below.

Water Quality Table				
	Contaminant	Unit	Level	Violation
Inorganic Contaminants	Chloride	mg/L	310	No
	Fluoride	mg/L	.57	No
	Odor	TON	3	No
	pH	Units	8.1	No
	Sulfate	mg/L	80	No
	Total Dissolved Solids	mg/L	930	No
Metals	Arsenic	mg/L	.0038	No
	Copper	mg/L	.0005	No
	Manganese	mg/L	.014	No
	Sodium	mg/L	160	No
	Zinc	mg/L	.023	No
Trihalomethane Analyses	Bromodichloromethane	ug/L	20	No
	Bromoform	ug/L	16	No
	Chloroform	ug/L	9.8	No
	Dibromochloromethane	ug/L	38	No
Radiochemistry	Gross Alpha	pCi/L	2.8 ± 2.1	No
	Gross Beta	pCi/L	9.8 ± 3.2	No
	Radium 226	pCi/L	0.3 ± 0.2	No

Liter (L): One gallon equals 3.785 liters.

Milligram (mg): A unit of mass equal to one-thousandth of a gram.

Milligrams per Liter (mg/L): The units used in reporting the concentration of matter in water as determined by water analysis.

Milligrams per Liter as Nitrogen (mg/LN): The unit used to measure nitrate as nitrogen.

Microgram (ug): A unit of mass equal to one-millionth of a gram.

Micrograms per Liter (ug/L): A unit of concentration of dissolved substances based on their weights.

Color Units (PCU): A measure of color.

Pico: A prefix meaning 10<sup>-12</sup> or 0.000000000001.

Picocuries per Liter (pCi/L): A measure of radioactivity.

TON: Threshold Odor Number.

This Annual Reuse Report is required as a condition of permit by the Florida Department of Environmental Protection. The purpose is to report the origin, nature, and characteristics of your reclaimed water supplied by the City of Dunedin. If you have any questions or want to obtain additional copies of this report please call (727) 298-3100, visit the Water Division at 1401 County Road 1, or visit <http://www.dunedingov.com> and 'Click' on the "Public Works and Utilities" link on the left side of the screen.