

## 2013 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 2013 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.

## 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 into St. Joseph Sound.
- ✓ Enhances property marketability.
- ✓ Not subject to the Southwest Florida Water Management Districts (SWFWMD/SWIFTMUD) watering restrictions

## IMPORTANT Allocation Changes

As part of our ongoing commitment to provide a sufficient amount of reclaimed water to our customers, especially during the **Dry Season (February thru June)**, we have reviewed the allocations for all reclaimed customers.

Based on the individual review of each customer's property (3,562 customers), approximately 36% of the allocations will be adjusted. The Water Department will be notifying each reclaimed customer if their allocation is being changed.

Why is the Allocation important? The allocation determines the overall size (number of customers) the Reclaimed Water System can sustain and provides for a base line of irrigation usage for each property. The allocation is important to the customer as it could affect the utility bill during the dry season **if** the allocation is exceeded. Customers who exceed their dry season allocation will incur an over use surcharge fee of **\$2.00** per thousand gallons of overuse.

What is an allocation and how is it determined? The Allocation is the amount or volume of reclaimed water available to customers during the **Dry Season** to which the surcharge fee does not apply. The allocation is based on 0.8 inches of water per week (3.2 inches per month) multiplied by the amount of pervious acreage (total acreage minus the area of the house, patio, sidewalk, driveway, etc.) on a customer's property. The allocation table below shows how the pervious acreage ranges determine a property's allocation.

Reclaimed Water Allocation Table	
Pervious Acreage Range	Allocation
0.01 acres to less than 0.16 acres	14,000 gallons or less
0.16 acres to less than 0.19 acres	17,000 gallons or less
0.19 acres to less than 0.21 acres	18,000 gallons or less
0.21 acres to less than 0.25 acres	22,000 gallons or less
0.25 acres to less than 0.29 acres	25,000 gallons or less
0.29 acres to less than 0.50 acres	43,000 gallons or less
0.50 acres to less than 1.10 acres	96,000 gallons or less
1.10 acres to less than 10 acres	869,000 gallons or less

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

## Reclaimed Water Rates

### 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
Over Allocation Surcharges February 1st—June 30th	\$2.00

#### Billing Questions?

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

## Website Information



Use our Quick Response Barcode to access the Reclaimed Water Webpage from your smart phone.

The Official City of Dunedin Website is located at: <http://www.dunedingov.com/>

There is a great deal of information on our website regarding services and activities available within the City.

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

Navigate your cursor to the *Government* drop down menu on the banner, scroll down to *Public Works & Utilities*, then scroll down to *Reclaimed Water* and click.

The Reclaimed Water page is displayed. Click on the *Reclaimed Water Rates, Surcharges, Irrigation Schedule and Zones* button on the left side of the page. Scroll down to view information on rates, allocations, watering zones and schedules.

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

## 2013 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.

<b>Water Quality Table</b>				
	<b>Contaminant</b>	<b>Unit</b>	<b>Level</b>	<b>Violation</b>
Inorganic Contaminants	Chloride	mg/L	280	No
	Fluoride	mg/L	.50	No
	Odor	TON	1	No
	pH	Units	8.2	No
	Sulfate	mg/L	51	No
	Total Dissolved Solids	mg/L	790	No
	Arsenic	mg/L	.00093	No
Metals	Copper	mg/L	.0022	No
	Manganese	mg/L	.001	No
	Sodium	mg/L	140	No
	Zinc	mg/L	.0003	No
Trihalomethane Analyses	Bromodichloromethane	ug/L	15	No
	Bromoform	ug/L	7.2	No
	Chloroform	ug/L	8.7	No
	Dibromochloromethane	ug/L	22	No
Radiochemistry	Gross Alpha	pCi/L	2.5 ± 2.0	No
	Gross Beta	pCi/L	9.7± 4.5	No
	Radium 226	pCi/L	0.5 ± 0.13	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 our website at: <http://www.dunedingov.com>. On the website: Navigate your cursor to the **Government** drop down menu on the banner, scroll down to **Public Works & Utilities**, scroll down to **Reclaimed Water** and click. Once the Reclaimed Water page is displayed, scroll down to the Reclaimed Water Quality section and click on the Reclaimed Water Consumer Confidence Report for the year you want to view.