

CITY of ROCKPORT, TEXAS



WATER CONSERVATION PLAN JANUARY 2015



*CITY OF ROCKPORT
UTILITIES DEPARTMENT
2751 SH 35 BYPASS
ROCKPORT, TX 78382*

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1. INTRODUCTION

The City of Rockport Water Department purchases water from San Patricio Municipal Water District whose source is the Nueces River, with supplements from City of Corpus Christi. Our system provides water to customers within our corporate city limits, as well as those in the Town of Fulton and much of Aransas County. Over the past two decades, this area has experienced significant growth and with the abundant outdoor recreation, has become a favorite vacation destination. Many of the homes served by our water system are secondary residences; primarily occupied on weekends and holidays, with irrigation being the main use of our resources. These factors place increased demands on our water system and supply.

The City of Rockport recognizes the need to conserve and efficiently use existing resources to continue meeting current and future needs. For this reason, the City has implemented programs to minimize water loss and waste. Educational outreach programs are also in place.

In adopting this water conservation plan, the City of Rockport shall:

- Complete the Texas Water Development Board Water Conservation Utility Profile, WRD-264 on an annual basis;
- Set five- and ten-year goals for per capita water use;
- Adopt an ordinance approving the plan.

The conservation plan includes all elements required by TCEQ.

2. WATER UTILITY PROFILE

For copy of 2015 Water Utility Profile, see Attachment A.

3. SPECIFICATION OF WATER CONSERVATION GOALS

As required by TCEQ, the City of Rockport has adopted specific water conservation goals for the water conservation plan and developed 5- and 10- year goals for reduction in per capita municipal use, including the following:

- Maintain unaccounted water in the system below 12% annually in 2016 and subsequent years;
- Continue to maintain a meter replacement program;
- Review and modify the current public awareness program and encourage water conservation and more efficient use of water by making information available to the public;
- Review and modify system specific strategy to conserve water to reduce usage during peak periods.

Five- and Ten-year Goals in Gallons per capita per day (gpcd)

Current 5-Year Average Municipal per capita use 2011-2015	97.20
5 – year Goal (gpcd)	107.00
10 – year Goal (gpcd)	107.00

4. METERING, USAGE RECORDS, WATER LOSS AND LEAK DETECTION AND REPAIR

One of the main factors in water conservation is precise tracking of water use and control of loss through leaks and illegal connections. Careful leak detection and repair and continuous monitoring of unaccounted water are imperative to control loss.

4.1 Accurate Metering of Treated Water Deliveries

The City of Rockport meters all treated water deliveries from San Patricio Municipal Water District, through one 10” meter at the Aransas County line. This meter is read daily and tested annually.

4.2 Metering of Customer and Public Uses and Meter Testing, Repair and Replacement

The City of Rockport meters all water usage, including residential, commercial, industrial and governmental. A water audit was conducted in 2001 and a meter replacement program was implemented to reduce water loss. The program targets 10% of the older meters within the system, annually.

Additionally, the City of Rockport owns a meter tests bench and performs sample testing of meters on a regular basis.

4.3 Record Keeping

The City of Rockport records water delivered and water sold; estimates water losses and separates water sales and uses into residential, commercial, and industrial categories as required by TAC Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2(a)(2)(B)

4.4 Measures and Control of Unaccounted Water

Unaccounted water is the difference between treated water deliveries from San Patricio Municipal Water District and the metered deliveries to customers. Authorized but unmetered uses by fire fighting and line flushing are included in the calculation. Other unaccounted water includes:

- Losses due to water main breaks and leaks in the water distribution system;
- Losses due to illegal connections;
- Losses due to fire fighting and fire line flushing;
- Line flushing due to construction, maintenance, repair and water quality needs;
- Inaccuracy in customer meters.

In an effort to control unaccounted water, the City of Rockport Utilities Department personnel manually read every meter in the system on a monthly basis and check all non-active connections. Field personnel walk all main distribution lines monthly and visually inspect all service lines for leaks. Meter readers and other field personnel also watch for and report signs of illegal connections.

4.5 Leak Detection and Repair

The City's SCADA system monitors activities and tank levels within the system. Activity is reviewed daily and high / low level alarms are programmed to automatically notify personnel when reached. Additionally, meter readers and field personnel watch for and report signs of leaks and illegal connections. Leaks are repaired quickly and illegal connections are terminated immediately.

4.6 Monitoring Effectiveness and Efficiency

The City of Rockport compiles data annually and submits a water utility profile to the Texas Water Development Board. Water use by category for the current year is compared to historical values.

Annual water audits are performed by Utilities Department Personnel. In addition, in depth water audits were conducted by JBS and Associates in 2001 and 2005.

In 2009, the City contracted with SAMCO Leak Detection to conduct a leak survey on a part of the system representing approximately 10% overall. The leaks identified were repaired within 2 weeks. Future leak surveys shall be conducted periodically.

5. WATER CONSERVATION PROGRAM

The City of Rockport mails Consumer Confidence Reports to all customers annually. A copy of the CCR is included on the City's website with additional copies and other water conservation literature also placed in public areas of City buildings. Education outreach programs are currently being developed for use in the school district and community.

6. WATER RATE STRUCTURE

The City of Rockport has a conservation oriented and non-“promotional” rate structure which is cost of service based. The City has a fixed monthly fee based on meter size, which includes up to the first 2,000 gallons of water used, and increases as the meter size increases. A commodity charge is applied for each additional 1,000 gallons of usage and in an effort to encourage water conservation, the City has a tiered rate structure in which the unit price for water increases with increasing water use.

CLASS	DESCRIPTION	WATER	WATER RATES	WATER RATES	WATER RATES
		MIN/2000 GAL	/ 1000 gal 2001- 10000	/ 1000 gal 10001 - 15000	/ 1000 gal 15001 & OVER
INSIDE	3/4"	\$ 18.42	\$ 4.83	\$ 5.69	\$ 6.48
INSIDE	1"	\$ 22.28	\$ 4.83	\$ 5.69	\$ 6.48
INSIDE	1 1/2"	\$ 41.51	\$ 4.83	\$ 5.69	\$ 6.48
INSIDE	2"	\$ 64.60	\$ 4.83	\$ 5.69	\$ 6.48
INSIDE	3"	\$ 126.18	\$ 4.83	\$ 5.69	\$ 6.48
INSIDE	4"	\$ 195.45	\$ 4.83	\$ 5.69	\$ 6.48
INSIDE	6"	\$ 195.45	\$ 4.83	\$ 5.69	\$ 6.48
OUTSIDE	3/4"	\$ 25.46	\$ 6.83	\$ 8.06	\$ 9.19
OUTSIDE	1"	\$ 30.83	\$ 6.83	\$ 8.06	\$ 9.19
OUTSIDE	1 1/2"	\$ 57.56	\$ 6.83	\$ 8.06	\$ 9.19
OUTSIDE	2"	\$ 89.65	\$ 6.83	\$ 8.06	\$ 9.19
OUTSIDE	3"	\$ 175.25	\$ 6.83	\$ 8.06	\$ 9.19
OUTSIDE	4"	\$ 571.54	\$ 6.83	\$ 8.06	\$ 9.19
OUTSIDE	6"	\$ 271.54	\$ 6.83	\$ 8.06	\$ 9.19
FULTON	3/4"	\$ 25.46	\$ 6.83	\$ 8.06	\$ 9.19
FULTON	1"	\$ 30.83	\$ 6.65	\$ 7.88	\$ 9.01
FULTON	1 1/2"	\$ 57.56	\$ 6.65	\$ 7.88	\$ 9.01
FULTON	2"	\$ 89.65	\$ 6.65	\$ 7.88	\$ 9.01
FULTON	3"	\$ 175.25	\$ 6.65	\$ 7.88	\$ 9.01
FULTON	4"	\$ 571.54	\$ 6.65	\$ 7.88	\$ 9.01
FULTON	6"	\$ 271.54	\$ 6.65	\$ 7.88	\$ 9.01
WHOLESALE	1"	\$ -	\$ 5.24	\$ 5.24	\$ 5.24
WHOLESALE	2"	\$ -	\$ 5.24	\$ 5.24	\$ 5.24
WHOLESALE	3"	\$ -	\$ 5.24	\$ 5.24	\$ 5.24
WHOLESALE	4"	\$ -	\$ 5.24	\$ 5.24	\$ 5.24
WHOLESALE	6"	\$ -	\$ 5.24	\$ 5.24	\$ 5.24

7. OTHER WATER CONSERVATION MEASURES

7.1 Wastewater Effluent Reuse

Rockport Country Club reuses effluent from City of Rockport Wastewater Treatment Plant for golf course irrigation. They are permitted up to 2.2 acre feet per acre annually.

Additionally, the Wendell's reuse effluent for wildlife ponds on their property.

7.2 Ordinances and Plumbing Codes

- The state has required water-conserving fixtures in new construction and renovations since 1992. The state standards call for flows of no more than 2.5 gallons per minute (gpm) for faucets, 3.0 gpm for showerheads, and 1.6 gallons per flush for toilets. Similar standards are now required nationally under federal law. These state and federal standards assure that all new construction and renovations will use water-conserving fixtures. The City of Rockport will continue to implement ordinances, plumbing codes, and rules on water conserving fixtures as they evolve through relevant building codes and State of Texas requirements.
- Drought Contingency plan requests community voluntarily conserve and limit use of water and limit outdoor irrigation to three days per week from May 1 – September 30.

7.3 Requirement for Wholesale Customer

The City of Rockport is a wholesale water supplier. Every contract for the wholesale sale of water by customers that is entered into, renewed, or extended after the adoption of this water conservation plan will include a requirement that the wholesale customer and any wholesale customers of that wholesale customer develop and implement a water conservation plan meeting the requirements of Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2 of the Texas Administrative Code. The requirement will also extend to each successive wholesale customer in the resale of the water.

7.4 Coordination with Regional Water Planning Group

A copy of this ordinance shall be provided to the Coastal Bend Regional Water Planning Group.

8. IMPLEMENTATION AND ENFORCEMENT OF THE WATER CONSERVATION PLAN

The City of Rockport will adopt the plan by ordinance and provide a copy to the TWDB upon completion. The ordinance shall designate responsible officials to implement and enforce the water conservation plan.