CITY OF ROSENBERG

WATER CONSERVATION PLAN

April 2014

Public Water Supply Identification Number: 0790003
Fort Bend County

John Maresh, Assistant City Manager for Public Services
Karl Zwahr, Utilities Director

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Section 1 – Introduction & Purpose

The City of Rosenberg (the "City"), a community located within central Fort Bend County, Texas, recognizing the need for efficient use of existing water supply and treatment facilities, shall adopt the following water conservation plan for the purposes of identifying and establishing principals and practices to effectively monitor and conserve the efficient use of available water supplies and distribution system capacity. This is an update of the current plan previously adopted on April 07, 2009. The plan was prepared in general accordance with The Texas Water Development Board's water conservation plan requirements contained in Title 31, Part 10, Chapter 363, Subchapter A, Rule 363.15 of the Texas Administrative Code.

Section 2 – Utility Profile

2.1 General Information & Population

The City's Water Utilities Department manages a water distribution service area of approximately 18 square miles and serves a population of over 34,000 residents. The area consists primarily of single family and light commercial with some scattered industrial development. Currently, the area is partially developed, but substantial growth is anticipated. The City provides potable water to its customers through a network of over 152 miles of transmission and distribution lines that provide service to 13,858 active water connections at the end of calendar year 2013. The official U.S. Census population count for the City in 2010 was 30,618, an increase of 27% from the 2000 Census.

2.2 Water Use Data, Supply System & Wastewater System

Appendix C to this Water Conservation Plan is an evaluation of the City's water and wastewater system completed using the TWDB's Water Conservation Utility Profile (TWDB-1965). The profile includes information regarding population, customer data, water use data, water supply system information, and wastewater treatment system information.

Section 3 – Conservation Goals

3.1 Five (5) & Ten (10) Year Targets

The purpose of this water conservation plan is to reduce long-term demand on limited water resources by encouraging more efficient water use practices in the City of Rosenberg. Table 1 below shows historical and projected per capita municipal water use for the City in gallons per capita per day (gpcd). Municipal use is the total water use less wholesale sales to other another utility for resale less sales to industrial users.

Table 1. Municipal Per Capita Water Use

	Historic 5yr Average	Baseline	5yr Goal for year 2019	10yr Goal for year 2024
Total GPCD[1]	117	117	112	107
Residential GPCD[2]	62	62	61	60
Water Loss (GPCD)[3]	21	21	17	13
Water Loss (Percentage)[4]	18%	18%	15%	12%

1. Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365
2. Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365
3. Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365
4. Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

The City's water conservation goals include the following:

1. Achieve a 2019 per capita municipal water use of 112 total gpcd (five year goal) and a 2024 per capita municipal water use of 107 total gpcd (ten year goal).

2. Continue the City's program of universal metering and meter maintenance.

3. Decrease the level of unaccounted water in the system to less than 12 percent in 2019 and subsequent years.

4. Raise public awareness of water conservation and encourage responsible public behavior though public education and information programs, as discussed in Section 4.3

3.2 Schedule

The State Water Conservation Implementation Task Force recommends that municipalities set goals of reducing per capita consumption by 1% per year. The goals proposed in this plan are structured so that consumption is reduced by 1% each year, meeting the ultimate goal within ten years. The City will periodically

evaluate the plan in accordance with State and Federal regulations to determine the extent, if any, that the plan needs modification.

Section 4 – Water Conservation Plan Elements

4.1 Metering of Raw Water & Universal Metering

The City meters all water produced at water plant facilities. Meters at City water production facilities are calibrated and tested at a maximum of three (3) year intervals in accordance with American Water Works Association (AWWA) standards to provide a minimum accuracy of plus or minus five percent (5%).

The ability to meter all water distribution and consumption uses allows the City to closely monitor actual water use, water losses, and prevent unauthorized use. All service connections in the City are metered. All production wells, pumping stations, interconnections, irrigation, parks, and municipal structures operated by the City are metered.

The City meters all water delivered by the City and will continue to provide a preventive maintenance program for its water meters, wherein regular scheduled testing, repairs, and replacement are performed in accordance with American Water Works Association (AWWA) standards.

4.2 Determination and Control of Water Loss

The goal of the City's water loss control program is to maintain unbilled water at or below 10% of water produced, on a monthly basis. In order to meet this goal, the City has several programs in place, including routine water audits, visual inspections, a program of leak detection and repair, and meter testing and accuracy.

A. Routine Audits of Water System

The City Customer Services Department generates a monthly water loss report that compares metered production with metered consumption, as well as accounted-for and unaccounted-for water losses. This report provides an effective tracking system of water loss. The City will also complete a detailed water system audit following Texas Water Development Board (TWDB) guidelines at least once each year. TWDB rules only require this audit to be submitted once every five years. The water system audit determines the volume of actual water loss, the identification of water loss sources, the status and condition of primary water meters, an analysis of water line breaks, an evaluation of underground leakage potential, and provides recommendations for meter replacement.

B. Leak Detection and Repair

The City administers a leak detection and repair program for its water distribution system. This program features a work order prioritization system for leaks needing repair and an inventory of equipment and materials needed to promptly repair all detected or reported leaks. The City's Capital Improvement Plan to upgrade its water distribution system also addresses high volume leaks.

4.3 Continuing Public Education Program

The City promotes water conservation issues by informing the general public in the following ways:

- Making water conservation information available to new customers
- Providing water conservation information to all customers upon request
- Coordinating education presentations, lectures, and demonstrations for schools, civic groups, and the general public upon request
- Publishing water conservation information on a regular basis in the City's utility bill insert or other written form
- Continue sponsorship of the Water Wise Program administered by the Fort Bend Subsidence District. This program teaches direct water conservation principals and concepts to public school elementary students who reside within the City's service area.

4.4 Non Promotional Water Rate Structure

The City's water rate structure utilizes the cost-of-service method, which is based on costs incurred for services provided by the Water Utilities Department. The current rate structure charges monthly service charges based on meter size, plus a uniform water usage rate per thousand (1,000) gallons (Code of Ordinances Section 29-50). A copy of the current water rate structure is included as Appendix D.

The City utilizes an inclining water rate structure to encourage residential customers to reduce both peak and overall water usage, while fairly allocating cost of service to each customer class. Under an inclining rate structure, the rate per thousand gallons increases as the amount of water used increases. This rate structure is reviewed on a regular basis to ensure that the rates adequately recover the cost of service and meet the goals of this water conservation plan.

In 2013, the City also established a rate structure for Type I reclaimed water used for irrigation purposes. The reclaimed water rate is not subject to the Subsidence (GRP) Fee which is currently $1.20 per 1,000 gallons of potable water used. This lower overall rate serves as an incentive for users to convert from potable water to reclaimed water to meet irrigation needs.

4.5 Optional Plan Elements

A. Plumbing Code and Retrofit Program

The City has adopted the International Plumbing Code, which requires the use of water saving, Ultra Low Flow (ULF) fixtures to be installed in new construction and in the replacement of plumbing in existing structures.

The City educates the residents, plumbers, and contractors on the benefits of retrofitting existing facilities with water saving devices through its public education program. In addition, the City will evaluate the feasibility and cost effectiveness of implementing an Ultra-Low Flow (ULF) rebate program or similar incentive program that would offer cash rebates or other incentives to water customers that replace old toilets, showerheads, and other fixtures with new ULF models.

B. Landscape Water Management

The City provides information about the methods and benefits of water conserving landscaping practices and devices, through public education to homeowners, business owners, landscape architects and designers, and irrigation professionals. The following methods are encouraged:

- The use of Xeriscape (trademark) and "Water Wise" landscaping techniques, including drought tolerant plants and grasses for landscaping new homes and commercial areas.
- The use of drip irrigation systems when possible or other water conserving irrigation systems that utilize efficient sprinklers and considerations given to prevailing winds.
- Making sure that ornamental fountains or similar water features are designed to recycle water and use minimal amounts of water.

C. Water Reuse

The goal for the City's water reuse program is to reduce peak demand on the potable water system by switching non-potable uses of water, such as athletic field irrigation, to reuse water. In 2009, the City received authorization from the TCEQ to reuse its treated wastewater effluent from Wastewater Treatment Plant No. 2 as Type 1 reuse water, the highest quality of reuse water.

The first phase of the reuse project completed in 2009, included the construction of reclaimed water infrastructure to serve the City's

Seabourne Creek Park and Athletic Complex. Athletic field irrigation and other landscaping water uses were converted from potable water to reclaimed water. In 2013, the City Council approved a reclaimed water distribution system master plan and completed phase two construction which expanded the distribution system network to areas beyond the park complex As part of the Phase Two project, the City partnered with Lamar Consolidated Independent School District (LCISD) to convert the athletic field and landscape irrigation uses at the B F Terry High School complex to reclaimed water. Full implementation of the reclaimed water use at B F Terry High School is scheduled for April 2014. Additional customers are also now able to connect to the reclaimed water distribution system for irrigation purposes. When this system is fully implemented, it will provide in excess of 500,000 gallons per day of reclaimed water, further reducing demand on the potable water system. In the future, the City plans to expand its water reuse program to include additional parks, school campuses and public spaces. Consideration will be given to providing reuse water to area Municipal Utility Districts.

The City has also converted two (2) major wastewater treatment plants from potable process and wash down water to non-potable process and wash down water. Wastewater Treatment Plant No. 2 was converted in 2008 and Wastewater Treatment Plant No. 1A was converted in 2012. This has resulted in potable water use reduction exceeding one million gallons per month at each plant.

Since its inception in 2009, the City has documented use of approximately 170 million gallons of reclaimed/reuse water in lieu of potable water through fiscal year FY 2013, ending September 30, 2013,

4.6 Reservoir Systems Operation Plan

The City does not own any reservoirs within a common watershed or river basin.

4.7 Records Management System

The City administers a comprehensive record management system that accounts for water use characteristics throughout the water system and allows for the separation of aggregate water sales and water usage characteristics into customer-specific categories. The system is configured to provide the following water use information:

- Water production
- Water sales
- Water consumption
- Water losses

4.8 Requirement for Water Conservation Plans for Wholesale Water Supply Contracts

The City will, as part of contracts for the sale of water to any other entity re-selling water, require that entity to adopt applicable provisions of the City's water conservation and drought contingency plan or have a plan in effect previously adopted and meeting the basic requirements of 30 TAC Chapter 288. These provisions will be through contractual agreement prior to the sale of any water to the water re-seller.

4.9 Record Management and Performance Measures

The City will compile an annual report on the Water Conservation Plan, to include the following:

- Summary of public information issued in the previous year
- Effectiveness of Water Conservation Plan in reducing peak and overall water consumption
- Per capita water consumption for the previous calendar year
- Implementation progress and status of plan

4.10 Implementation and Enforcement

Appendix A contains a copy of the City ordinance adopting this water conservation plan. The ordinance designates responsible officials to implement and enforce the water conservation plan.

4.11 Coordination with Regional Water Planning Group

Appendix B includes a copy of the letter sent to the Chair of Region H Water Planning Group with this water conservation plan.

APPENDIX "A"

ORDINANCE NO. 2014-17

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE CITY OF ROSENBERG, TEXAS, BY DELETING ARTICLE III OF CHAPTER 10 THEREOF AND BY SUBSTITUTING THEREFOR A NEW ARTICLE III OF CHAPTER 10 THEREOF, ADOPTING A WATER CONSERVATION PLAN; PROVIDING A PENALTY IN AN AMOUNT NOT TO EXCEED $2000 FOR VIOLATION OF ANY PROVISION HEREOF; AND PROVIDING FOR SEVERABILITY.

* * * * *

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF ROSENBERG:

Section 1. The Code of Ordinances of the City of Rosenberg, Texas, is hereby amended by deleting Article III of Chapter 10 and substituting therefor a new Article III of Chapter 10 thereof, to provide as follows:

"ARTICLE III. WATER CONSERVATION PLAN

Section 10-50. Adoption of water conservation plan.

There is hereby adopted for the city a "water conservation plan," dated April 2014, a true and correct copy of which is filed and maintained in the office of the city secretary."

Section 2. Any person who shall intentionally, knowingly, recklessly, or with criminal negligence, violate any provision of this Ordinance, shall be deemed guilty of a misdemeanor and, upon conviction, shall be fined in an amount not to exceed $2000. Each day of violation shall constitute a separate offense.

Section 3. In the event any clause, phrase, provision, sentence, or part of this Ordinance or the application of the same to any person or circumstance shall for any reason be adjudged invalid or held unconstitutional by a court of competent jurisdiction, it shall not affect, impair, or invalidate this Ordinance as a whole or any part or provision hereof other than the part declared to be invalid or unconstitutional; and the City Council of the City of Rosenberg, Texas, declares that it would have passed each and every part of the same notwithstanding the

omission of any such part thus declared to be invalid or unconstitutional, whether there be one or more parts.

PASSED AND APPROVED by a vote of 7 "ayes" in favor and 0 "noes" against on this first and final reading in full compliance with the provisions of Section 3.10 of the Charter of the City of Rosenberg on the 15th day of April, 2014.

ATTEST:

Linda Cernosek, **City Secretary**

APPROVED:

Vincent M. Morales, Jr., **Mayor**

APPROVED AS TO FORM:

Lora Jean D. Lenzsch, **City Attorney**

April 30, 2014

Mr. Mark Evans, Chair
Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305

Re: Water Conservation Plan for the City of Rosenberg
PWS #0790003

Dear Mr. Evans:

Enclosed please find a copy of the Water Conservation Plan for the City of Rosenberg. This plan and a copy of the City Council Ordinance adopting the plan (included as Appendix "A" to the plan) are being submitted in accordance with Texas Commission on Environmental Quality rules.

This plan was approved by the City Council on April 15, 2014. If you have any questions, please feel free to contact me by phone at (832) 595-3310 or email at johnm@ci.rosenberg.tx.us.

Sincerely,

John Maresh

John Maresh
Assistant City Manager of Public Services

JM/sn

xc: Robert Gracia, City Manager
Karl Zwahr, Utilities Director
Charles Kalkomey, City Engineer
Linda Cernosek, City Secretary
File/Correspondence

encl: Water Conservation Plan

OFFICE OF THE ASSISTANT CITY MANAGER OF PUBLIC SERVICES
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Utility Profile
TWDB Form No. 1965 - R
Revised on: 4/1/14

Texas Water Development Board

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

Fill out this form as completely as possible.
If a field does not apply to your entity, leave it blank.

CONTACT INFORMATION

Name of Utility: City of Rosenberg

Public Water Supply Identification Number (PWS ID): 0790003

Certificate of Convenience and Necessity (CCN) Number: _____

Surface Water Right ID Number: _____

Wastewater ID Number: WQ0010607

Completed By: John Maresh Title: Assistant City Manager

Address: 2110 4th Street City: Rosenberg Zip Code: 77471

Email: johnm@ci.rosenberg.tx.us Telephone Number: 832-595-3500

Date: 04-07-14

Regional Water Planning Group: H Map

Groundwater Conservation District: Ft. Bend Map

Check all that apply:

- [ ] Received financial assistance of $500,000 or more from TWDB
- [x] Have 3,300 or more retail connections
- [ ] Have a surface water right with TCEQ

Texas Water Development Board

Section I: Utility Data

A. Population and Service Area Data

1. Current service area size in square miles: 37
(Attach or email a copy of the service area map.)

2. Provide historical service area population for the previous five years, starting with the most current year.

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Service
2013	33,832	4,212	31,463
2012	32,761	3,680	30,467
2011	31,689	2,880	29,470
2010	30,618	2,650	28,474
2009	29,961	2,370	27,864

3. Provide the projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Service
2020	40,450	9,200	39,230
2030	41,900	13,430	42,410
2040	43,350	17,700	45,630
2050	44,785	21,900	48,780
2060	46,500	26,200	51,900

4. Describe the source(s)/method(s) for estimating current and projected populations.

Current populations are based on water meter counts, multi-family unit counts, and data from the 2010 Census. Projected populations are based on an internal growth rate for the older portion of the City and development projections from the Municipal Utility Districts and developers within the City and the City's ETJ.

B. System Input

Provide system input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

Year	Self-supplied Water in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2013	1,342,130,000			1,342,130,000	109
2012	1,299,118,000			1,299,118,000	109
2011	1,525,960,000			1,525,960,000	132
2010	1,262,388,000			1,262,388,000	113
2009	1,360,815,000			1,360,815,000	124
Historic 5-year Average	1,358,082,200	0	0	1,358,082,200	117

C. Water Supply System (Attach description of water system)

1. Designed daily capacity of system 14,000,000 **gallons** per day.
2. Storage Capacity:
   Elevated 1,850,000 **gallons**
   Ground 3,872,000 **gallons**

3. List all current water supply sources in gallons.

Water Supply Source	Source Type*	Total Gallons
Groundwater	Ground	10,000
	Choose One	
	Choose One	
	Choose One	
	Choose One	
	Choose One	

*Select one of the following source types: *Surface water, Groundwater, or Contract*

4. If surface water is a source type, do you recycle backwash to the head of the plant?
   ○ Yes _____ estimated **gallons** per day
   ○ No

D. Projected Demands

1. Estimate the water supply requirements for the next ten years using population trends, historical water use, economic growth, etc.

Year	Population	Water Demands (gallons)
2014	39,755	1,395,567,380
2015	41,514	1,457,303,490
2016	43,185	1,515,967,650
2017	45,023	1,580,485,100
2018	46,535	1,633,558,340
2019	48,184	1,691,458,100
2020	49,656	1,743,126,700
2021	50,948	1,788,485,100
2022	52,200	1,832,430,300
2023	53,432	1,875,673,400

2. Describe sources of data and how projected water demands were determined. Attach additional sheets if necessary.

The projected water demands are based on the projected growth in the service area as provided and projected within the Municipal Utility Districts and developments identified within the City and the City's ETJ. Current water meter counts and pumpage data over the last few years provides a base pumpage rate per equivalent single family connection. This rate was used with the projected connection counts to project the water demands.

E. High Volume Customers

1. List the annual water use, in gallons, for the five highest volume **RETAIL customers**. Select one of the following water use categories to describe the customer; choose Residential, Industrial, Commercial, Institutional, or Agricultural.

Retail Customer	Water Use Category*	Annual Water Use	Treated or Raw
Lamar CISD	Institutional	37,351,000	Treated
New Quest Properties	Commercial	34,165,800	Treated
Reading Park Apts.	Residential	19,391,000	Treated
Brazos Master Mtr Assn	Commercial	16,834,500	Treated
Pecan Park Apts	Residential	14,185,000	Treated

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

2. If applicable, list the annual water use for the five highest volume **WHOLESALE customers**. Select one of the following water use categories to describe the customer; choose Municipal, Industrial, Commercial, Institutional, or Agricultural.

Wholesale Customer	Water Use Category*	Annual Water Use	Treated or Raw
FBC MUD # 66	Municipal	14,449,300	Treated
FBC MUD # 152	Municipal	30,410,000	Treated
FBC MUD # 155	Municipal	73,639,000	Treated
FBC MUD # 158	Municipal	44,554,200	Treated
	Choose One		Treated

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

F. Utility Data Comment Section

Provide additional comments about utility data below.

Section II: System Data

A. Retail Connections

1. List the active retail connections by major water use category.

Water Use Category*	Active Retail Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Residential – Single Family	8,944		8,944	65%
Residential – Multi-family (units)	3,678		3,678	27%
Industrial	10		10	0%
Commercial	1,018		1,018	7%
Institutional	208		208	2%
Agricultural			0	0%
TOTAL	13,858	0	13,858	

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

2. List the net number of new retail connections by water use category for the previous five years.

Water Use Category*	Net Number of New Retail Connections				
	2013	2012	2011	2010	2009
Residential – Single Family	208	159	170	145	112
Residential – Multi-family (units)	5	4			
Industrial					1
Commercial	12	24	15	20	31
Institutional	4	2	1	5	1
Agricultural					
TOTAL	229	189	186	170	145

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

B. Accounting Data

For the previous five years, enter the number of gallons of RETAIL water provided in each major water use category.

Water Use Category*	Total Gallons of Retail Water				
	2013	2012	2011	2010	2009
Residential - Single Family	576,565,000	544,465,100	632,070,000	474,999,300	498,210,400
Residential – Multi-family	156,256,300	152,667,600	177,439,100	189,164,200	195,550,200
Industrial	27,169,100	18,805,400			
Commercial	310,363,800	341,257,520	427,995,900	273,898,100	390,381,570
Institutional	76,221,600	50,684,000			
Agricultural					
TOTAL	1,146,575,800	1,107,879,620	1,237,505,000	938,061,600	1,084,142,170

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

C. Residential Water Use

For the previous five years, enter the residential GPCD for single family and multi-family units.

Water Use Category*	Residential GPCD				
	2013	2012	2011	2010	2009
Residential - Single Family	59	58	70	55	59
Residential – Multi-family	60	59	72	76	78

D. Annual and Seasonal Water Use

1. For the previous five years, enter the gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Retail Water				
	2013	2012	2011	2010	2009
January	84,172,000	82,375,500	81,535,300	71,470,700	73,495,000
February	77,001,400	77,621,600	73,854,200	73,399,600	81,899,400
March	74,346,800	76,186,500	86,145,500	71,716,200	76,724,900
April	84,657,700	81,235,800	85,798,400	76,422,800	76,820,400
May	89,478,800	84,944,500	98,600,600	94,350,800	81,888,200
June	87,375,000	95,294,200	108,816,300	95,852,700	92,410,900
July	103,639,700	99,874,000	122,869,800	95,207,100	120,938,300
August	124,681,800	85,010,700	116,000,300	85,662,700	124,378,700
September	125,386,000	102,193,700	133,120,400	100,689,600	114,044,700
October	106,847,800	100,426,400	135,145,100	89,545,700	89,567,300
November	89,047,600	93,492,000	105,836,600	92,169,800	74,435,100
December	80,875,500	81,672,700	90,931,700	88,696,900	76,083,000
TOTAL	1,127,510,100	1,060,327,600	1,238,654,200	1,035,184,600	1,082,685,900

2. For the previous five years, enter the gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Retail Water				
	2013	2012	2011	2010	2009
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
TOTAL	0	0	0	0	0

3. Summary of seasonal and annual water use.

Water Use	Seasonal and Annual Water Use					Average in Gallons
	2013	2012	2011	2010	2009	
Summer Retail (Treated + Raw)	315,696,500	280,178,900	347,686,400	276,722,500	337,727,900	311,602,440 5yr Average
TOTAL Retail (Treated + Raw)	1,127,510,100	1,060,327,6	1,238,654,200	1,035,184,600	1,082,685,900	1,108,872,480 5yr Average

E. Water Loss

Provide Water Loss data for the previous five years.

Water Loss GPCD = [Total Water Loss in Gallons ÷ Permanent Population Served] ÷ 365

Water Loss Percentage = [Total Water Loss ÷ Total System Input] x 100

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2013	214,619,900	17	16%
2012	238,790,400	20	18%
2011	287,305,800	25	19%
2010	227,203,400	20	18%
2009	278,129,100	25	20%
5-year average	249,209,720	21	18%

F. Peak Water Use

Provide the Average Daily Water Use and Peak Day Water Use for the previous five years.

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2013	3,671,842	5,833,000	1.59
2012	3,538,759	6,461,000	1.83
2011	4,176,360	6,799,000	1.63
2010	3,454,470	7,144,000	2.07
2009	3,725,343	6,273,000	1.68

G. Summary of Historic Water Use

Water Use Category	Historic 5-year Average	Percent of Connections	Percent of Water Use
Residential SF	545,261,960	65%	0%
Residential MF	174,215,480	27%	0%
Industrial	9,194,900	0%	0%
Commercial	348,779,378	7%	0%
Institutional	25,381,120	2%	0%
Agricultural	0	0%	0%

H. System Data Comment Section

Provide additional comments about system data below.

Texas Water Development Board

Section III: Wastewater System Data

If you do not provide wastewater system services then you have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.

A. Wastewater System Data (Attach a description of your wastewater system.)

1. Design capacity of wastewater treatment plant(s): 6,550,000 **gallons** per day.

2. List the active wastewater connections by major water use category.

Water Use Category*	Active Wastewater Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	12,622		12,622	93%
Industrial	10		10	0%
Commercial	775		775	6%
Institutional	208		208	2%
Agricultural	0		0	0%
TOTAL	13,615	0	13,615	

2. What percent of water is serviced by the wastewater system? 85 %

3. For the previous five years, enter the number of gallons of wastewater that was treated by the utility.

Month	Total Gallons of Treated Wastewater				
	2013	2012	2011	2010	2009
January	73,658,000	84,928,000	75,794,000	93,673,000	70,397,000
February	63,375,000	93,329,000	65,628,000	91,285,000	65,654,000
March	68,729,000	83,863,000	71,496,000	83,145,000	78,542,000
April	79,783,000	67,863,000	67,688,000	76,259,000	89,575,000
May	79,338,000	82,689,000	73,454,000	98,746,000	73,313,000
June	70,311,000	75,480,000	72,884,000	87,013,000	68,077,000
July	68,921,000	93,880,000	75,505,000	119,452,000	76,342,000
August	68,641,000	71,099,000	75,475,000	88,573,000	75,656,000
September	73,499,000	75,328,000	75,460,000	94,005,000	79,344,000
October	76,315,000	72,871,000	68,927,000	63,539,000	104,730,000
November	70,940,000	63,139,000	62,943,000	64,129,000	80,340,000
December	63,710,000	66,253,000	71,460,000	72,800,000	115,558,000
TOTAL	857,220,000	930,722,000	856,714,000	1,032,619,000	977,528,000

Texas Water Development Board

4. Can treated wastewater be substituted for potable water?

(●) Yes ( ) No

B. Reuse Data

1. Provide data on the types of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site irrigation	
Plant wash down	53,294,315
Chlorination/de-chlorination	30,228,168
Industrial	
Landscape irrigation (parks, golf courses)	16,149,460
Agricultural	
Discharge to surface water	0
Evaporation pond	
Other	
TOTAL	99,671,943

C. Wastewater System Data Comment

Provide additional comments about wastewater system data below.

You have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.

APPENDIX "D"

Sec. 29-50. Metered rates; charge for late payment; senior citizen discount; outside city rates; prorated service; construction water usage; bulk water rates.

(a) The city will furnish water through meters, and the following charges will be made by the city for water furnished to consumers:

(1) *Single-family residences.* Rates for single-family residences shall be as follows:

a. The minimum monthly charge for single-family residences shall be the sum of ten dollars and twenty-eight cents ($10.28), for which up to two thousand (2,000) gallons of water may be used.

b. For use of over two thousand (2,000) gallons up to ten thousand (10,000) gallons, there shall be a charge of two dollars and fifty cents ($2.50) per thousand gallons.

c. For all water used over ten thousand (10,000) gallons, there shall be a charge of two dollars and eighty-eight cents ($2.88) per thousand gallons.

(2) *Multiple-dwelling units.* Rates for multiple-dwelling units shall be as follows:

a. The monthly water usage charge for a multiple-dwelling unit that is separately metered shall be calculated by applying the rates established for single-family residences.

b. The monthly water usage charge for a multiple-dwelling unit complex that is master metered shall be calculated by dividing the total water usage by the total number of dwelling units and applying the rates established for single-family residences. The monthly water usage charge for such multiple-dwelling unit complex shall be determined by multiplying the charge per dwelling unit by the total number of dwelling units. The number of dwelling units for mobile home and travel trailer parks shall be determined by calculating the number of available spaces.

(3) *Commercial/industrial users.* The minimum monthly charge for commercial/industrial uses for up to two thousand (2,000) gallons of water shall be based on meter size, as described below. All water used over two thousand (2,000) gallons will be two dollars and fifty cents ($2.50) per thousand gallons.

Meter Size	Minimum Charge per Unit
¾ inch	$10.28
1 inch	$30.85
2 inch	$51.41
3 inch	$71.97
4 inch	$113.10
6 inch	$154.23

(4) *Combination residential and commercial/industrial users.* Combination residential and commercial/industrial users whose primary activity is not commercial/industrial related will be classified as multiple-dwelling units and will be charged using the multiple-dwelling unit formula at one hundred (100) percent of the minimum single-family residence monthly usage and rate. Combination residential and commercial/industrial users whose primary activity is commercial/industrial in nature shall be charged the appropriate commercial/industrial rates.

(5) All customers with a separate fire line and meter installed, will be billed a minimum monthly charge of seven dollars and fifty cents ($7.50) unless there is consumption, and then the appropriate metered rate class charges will apply above the minimum.

(b) *Charge for late payments.* All fees become due upon the city's issuance of a monthly bill and are payable on the date stated on the bill. Payments received after the due date stated on the bill shall be subject to a ten (10) percent charge on the unpaid current balance. On an individual basis, customer accounts that have a twelve-month history of no late fees charged, can request to have a one-time waiver of the charge for late payment. Residential accounts for the principal residence only of

persons over the age of sixty-five (65) shall not be subject to the charge for late payments as prescribed in this section. Persons over the age of sixty-five (65) may declare only one (1) principal residence for which he is responsible for payment of the monthly bill. However, such accounts are subject to all other fines and fees as prescribed herein.

(c) Persons over the age of sixty-five (65) shall receive a discount of one dollar ($1.00) on single-family residential water service and one dollar ($1.00) on single-family residential sewer service, upon application to the customer service department.

(d) All users of city water service outside city limits shall pay one and one-half (1½) times the amount of the applicable minimum charge as set forth in subsection (a) and one and one-half (1½) times the amount of all applicable charges as set forth in subsection (a) for water used above the minimum charge.

(e) Customers shall be billed minimum charges for the first and last months of service for water and wastewater service on a prorated basis of the actual number of days service was provided. Solid waste charges for the first and last months of service shall be based on the city's actual cost to the contracted solid waste collection company.

(f) *Construction water usage.* Upon receipt of an application for service and the required deposit and installation fee as set forth in section 29-36(c), the city will provide a hydrant meter for the purposes of measuring the construction water usage if available. The meter shall be read in accordance with section 29-49 and water usage shall be billed at the rate of thirty-five dollars ($35.00) per month minimum for the first two thousand (2,000) gallons, and four dollars ($4.00) per one thousand (1,000) gallons thereafter. The deposit described herein will be refunded after all water charges have been paid and it has been determined that the fire hydrant and hydrant meter have not been damaged.

(g) *Bulk water usage.* The taking of bulk water shall be allowed only from a designated hydrant and shall be during the normal business hours, Monday through Friday, except holidays, unless an application for after-hours delivery is filed by the customer and approved. Bulk water customers will be responsible for paying overtime charges incurred at twenty dollars ($20.00/hour) with a minimum charge of one (1) hour, if applicable, in addition to the rate of thirty-five dollars ($35.00) for the first two thousand (2,000) gallons, and four dollars ($4.00) per one thousand (1,000) gallons thereafter assessed for the usage of bulk water within the city limits.

(h) *Wholesale water usage.*

(1) The purchase of wholesale water shall be allowed in accordance with an agreement with a specific entity approved by the Rosenberg City Council. Wholesale water customers shall be responsible for individual meter reading, billing, collection of monthly payments, termination of water service, and repair/maintenance of the water meters. Secondly, the entity shall be responsible for installation of a water interconnect with the Rosenberg water distribution system at a location approved by the Rosenberg City Council. Wholesale water customers shall be billed at a rate of 82.47 percent of Rosenberg's commercial water rate.

(2) For wholesale water customers, monthly payments on water usage shall be made to the City of Rosenberg within thirty (30) days of the date the city prints the monthly bill. Failure to submit payment within thirty (30) days will result in a late fee of ten (10) percent charge on the unpaid current balance.

(i) A water subsidence fee (GRP fee) surcharge of one dollar and twenty cents ($1.20) per one thousand (1,000) gallons shall be charged for all water used. Such water subsidence fee shall be applicable to all water customers including single-family residences, multiple-dwelling units, commercial/industrial users, combination residential and commercial/industrial users, construction water usage, bulk water usage and wholesale water usage.

(j) *Reclaimed/recycled water usage.* The purchase of reclaimed/recycled water shall be allowed in accordance with city policies/requirements and with an agreement with a specific customer approved by the city manager. A minimum monthly charge for up to two thousand (2,000) gallons of reclaimed/recycled water shall be based upon meter size, as described below. All reclaimed/recycled water used over two thousand (2,000) gallons will be two dollars and fifty cents ($2.50) per thousand gallons.

Meter Size	Minimum Monthly Charge
¾ inch	$10.28
1 inch	$10.28
2 inch	$10.28
3 inch	$71.97
4 inch	$113.10
6 inch	$154.23

No Subsidence Fee (GRP Fee) shall be charged for reclaimed/recycled water used.

(Ord. No. 2008-33, § 1, 9-16-08; Ord. No. 2009-14, §§ 1, 2, 4-7-09, Ord. No. 2010-09, § 1, 3-16-10; Ord. No. 2011-01, § 1, 1-4-11, eff. 3-1-11; Ord. No. 2011-13, § 1, 6-7-11; Ord. No. 2011-18, § 1, 8-16-11, Ord. No. 2011-33, § 1, 11-15-11; Ord. No. 2012-25, § 1, 7-17-12; Ord. No. 2013-17, § 1, 3-19-13; Ord. No. 2013-33, § 1, 8-20-13)

Editor's note—

Section 3 of Ord. No. 2011-33 states the rates and charges adopted by this ordinance shall become effective January 1, 2012.