

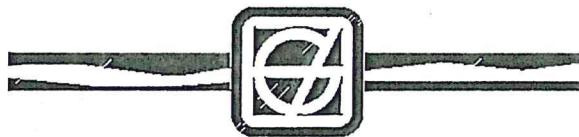
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**CITY OF SAN AUGUSTINE, TEXAS**

**WATER CONSERVATION PLAN**

**OCTOBER, 2015**

Prepared By



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## **ATTACHMENTS**

ATTACHMENT 1: RESOLUTION

ATTACHMENT 2: LETTER TO REGIONAL WATER PLANNING GROUP

ATTACHMENT 3: UTILITY PROFILE FOR RETAIL WATER SUPPLIER (TWDB FORM No. 1965-R)

**CITY OF SAN AUGUSTINE  
WATER CONSERVATION PLAN**

The following Water Conservation Plan was prepared for the City of San Augustine, Texas. This plan was prepared in accordance with the guidelines provided in the Texas Water Development Board document entitled *Water Conservation Plan Guidance Checklist* (TWDB-1968, Revised 01/08/2013).

- A. UTILITY PROFILE** - Texas Water Development Board Form TWDB-1965R (Utility Profile for Retail Water Supplier) is included herewith as an attachment to this document. The Utility Profile shows that the City of San Augustine's per capita residential consumption for the Year 2014 was approximately 57 gpcd with a five year average per capita residential consumption of approximately 71 gpcd (counting both single family and multi-family residential use). The City's total per capita water usage based on self-supplied water (not counting wholesale water exports) was approximately 152 gpcd for the Year 2014 with a five year average of about 226 gpcd. The City's estimated per capita water loss for the Year 2014 was approximately 57 gpcd with a five year average of 38 gpcd.
- B. TARGETS AND GOALS** - The targets and goals of this plan are quantified in the following section.

<b>WATER CONSERVATION TARGETS AND GOALS</b>	
5-Year Goals	Accurately identify water loss by accounting for municipal uses.
	Targeted residential consumption of 68 gpcd
	Targeted total water use of 215 gpcd (not including Wholesale)
	Loss 34 gpcd (16% of Total)
10-Year Goals	Targeted residential consumption of 64 gpcd
	Maintain commercial/institutional consumption of 57 gpcd
	Municipal (City) use of 45 gpcd (20% of Total)
	Targeted total water use of 203 gpcd (not including wholesale)
	Loss 31 gpcd (15% of Total)

- C. IMPLEMENTATION SCHEDULE** - The following table summarizes the schedule for implementing the plan to achieve the targets and goals:

<b>IMPLEMENTATION SCHEDULE</b>	
Date	Description
Fiscal Year 2015	Implement the updated water conservation and drought contingency plan.
Fiscal Year 2020	Update Utility Profile and adjust goals as necessary. Target 16% or less water loss
Fiscal Year 2025	Update Utility Profile and adjust goals as necessary. Target 15% or less water loss

- D. METHOD FOR TRACKING THE IMPLEMENTATION AND EFFECTIVENESS OF PLAN** - The City of San Augustine should annually track water use and compare it against historical records in order to evaluate the effectiveness of this plan. Progress toward meeting the targets and goals will be evaluated at a minimum of at least once every five years.



- E. **MASTER METERS** - A master meter is located at the City of San Augustine Surface Water Treatment Plant to measure the amount of treated water pumped to the City's water distribution system.

Each of the wholesale points for the rural water supply corporations have two master meters: one owned by the corporation and the other owned by the City. These meters are compared monthly to ensure fair billing. Any discrepancy between the meters is immediately identified and subsequently corrected. All master meters are calibrated annually and as required.

- F. **UNIVERSAL METERING** - The City of San Augustine has an ongoing meter testing, repair, replacement program.
- G. **UNACCOUNTED USES OF WATER** - All city water department personnel shall receive annual in-house training on identifying signs of leaking water lines. This training will focus on increasing general awareness of potential problems and a constant alertness for these signs. Annually, and as required, the water department personnel shall be deployed to walk the line routes on private easements and low visibility areas in order to identify leaks.
- H. **CONTROL OF WATER LOSS** - City administrative personnel will compare the amount billed to customers to the amount of treated water pumped from the water treatment plant on a monthly basis. If these numbers differ by an abnormal amount, they will alert the City Manager, who, in turn, will direct operations to identify the cause of the abnormal difference.
- I. **CONTINUING EDUCATION** - The City of San Augustine intends to continue using pre-printed brochures available from the Texas Water Development Board as the basis for public education. This will include providing water conservation information directly to each residential and commercial customer annually. New customers will receive general conservation literature when applying for water service. Educational material is always posted on the bulletin board located in the City Hall vestibule.
- J. **WATER RATE STRUCTURE** - The following table summarizes the current water rates for the City of San Augustine (as of August 2015):

WATER RATES FOR THE CITY OF SAN AUGUSTINE		
Class		Rate
Residential	Base Rate (0 gallons to 2,000 gallons)	\$23.55
	Over 2,000 gallons	\$4.92 per thousand gallons
Commercial	Base Rate (0 gallons to 2,000 gallons)	\$28.12
	Over 2,000 gallons	\$4.36 per thousand gallons
Rural Wholesale	All Usage	\$5.28 per thousand gallons

Note: All outside City Limit rates are 150% of the above rates

- K. **IMPLEMENTATION AND ENFORCEMENT OF THE PLAN** - The City of San Augustine, Texas has officially adopted this plan as evidenced by the attached resolution. By virtue of adopting this plan and its goals, the City commits it's personnel and resources to attainment of the stated goals through the measures detailed herein.
- L. **FURNISHMENT OF SERVICES TO OTHER SUPPLIERS** - This item is not applicable. The City of San Augustine will not utilize the project financed by the TWDB to furnish water or wastewater services to another supplying entity that in turn will furnish the water or wastewater services to the

ultimate customer.

- M. REGIONAL WATER PLANNING GROUP DOCUMENTATION** - The regional water planning group has been notified by letter of the City of San Augustine's Water Conservation Plan. A copy of that letter is provided in the attachments.
- N. ADOPTION OF THE PLAN** - The City of San Augustine, Texas has adopted this plan as evidenced by the attached resolution.
- O. REPORTING REQUIREMENT** - San Augustine's City Manager, will be responsible for preparing the annual report on Utility Form TWDB-1965. Recipients of loans and/or grants from the TWDB must maintain an approved water conservation program in effect until all financial obligations to the State have been discharged and shall report annually to the executive administrator of the Texas Water Development Board on the progress in implementing each of the minimum requirements in its water conservation plan and the status of any of its customers' water conservation plan required by contract. The content and format for the annual reporting is included in Form TWDB-1966: *Water Conservation Plan Annual Report* for retail water suppliers.

**ATTACHMENT 1**  
**RESOLUTION**

**RESOLUTION**

WHEREAS, The Texas Administrative Code §363.15(g) requires each entity receiving financial assistance from the Texas Water Development Board (TWDB) to submit an updated Water Conservation Plan to TWDB every five years; and

WHEREAS, the City of San Augustine received financial assistance for water system improvements from the Texas Water Development Board in 2010; and

WHEREAS, the City's current Water Conservation Plan was prepared in 2010; and

WHEREAS, it is the desire of the City to update said Plan as required by the Texas Administrative Code,

NOW, THEREFORE; BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SAN AUGUSTINE:

1. That the City hereby adopts the Water Conservation Plan attached hereto.
2. That the copy of said Plan attached hereto is incorporated in this resolution and made a part thereof.
3. The attached Plan shall replace the plan adopted in 2010.
4. That this resolution shall take effect immediately.

PASSED AND APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2015.

CITY OF SAN AUGUSTINE

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
Secretary

**ATTACHMENT 2**  
**LETTER TO REGIONAL WATER GROUP**





**Everett Griffith, Jr. & Associates Inc.**  
ENGINEERS • SURVEYORS

October 7, 2015

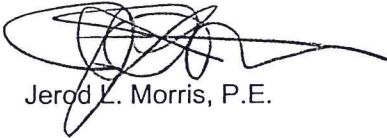
East Texas Regional Water Planning Group (Region I)  
C/O City of Nacogdoches  
P.O. Box 635030  
Nacogdoches, Texas 75963-5030  
Attn: Lila Filler

RE: City of San Augustine - Water Conservation Plan Update

Dear Ms. Fuller:

The service area of the City of San Augustine's water system is located within the planning area of the Region I. In compliance with TWDB requirements, this letter is to notify you that the City has updated its Water Conservation Plan.

Sincerely,



Jerod L. Morris, P.E.

cc: Honorable Leroy Hughes, Mayor - City of San Augustine, Texas

**ATTACHMENT 3**  
**2015 UTILITY PROFILE**

## 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 San Augustine, Texas

Public Water Supply Identification Number (PWS ID): 203001

Certificate of Convenience and Necessity (CCN) Number: 10431

Surface Water Right ID Number: 4409

Wastewater ID Number: WQ0010268001 and WQ0010268002

Completed By: Jerod L. Morris, P.E. Title: City Engineer

Address: 301 South Harrison City: San Augustine Zip Code: 75972

Email: jmorris@everettgriffith.com Telephone Number: (936) 634-5528

Date: 08/07/2015

Regional Water Planning Group: 1 [Map](#)

Groundwater Conservation District: 98 [Map](#)

Check all that apply:

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

## Section I: Utility Data

### A. Population and Service Area Data

1. Current service area size in square miles: 22  
 (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
2014	2,330		1,608
2013	2,381		1,643
2012	2,384		1,645
2011	2,420		1,670
2010	2,500		1,725

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	2,742		1,891
2030	2,812		1,940
2040	2,897		1,998
2050	2,984		2,058
2060	3,043		2,099

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

Historic population for the water system for Year 2010 obtained from the City's TWDB Water Audit Report. The population projections for decades between 2020 and 2050 obtained from the 2011 Regional Water Plan for Cities, Utilities, and County-Other by Region and County. The ratio of population/connection was estimated based on the Year 2010 data; the population for Years 2011-2014 estimated based on the reported number of residential connections for those years assuming the 2010 ratio of population/connection remained constant.

The population served by the wastewater system is estimated from the ratio of retail water connections to retail sewer connections.



**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
2014	175,921,000	0	46,380,000	129,541,000	152
2013	257,201,000	0	47,553,000	209,648,000	241
2012	259,000,000	0	43,000,000	216,000,000	248
2011	233,873,000	0	57,660,000	176,213,000	199
2010	317,466,529	0	54,447,000	263,019,529	288
<b>Historic 5-year Average</b>	248,692,306	0	49,808,000	198,884,306	226

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

1. Designed daily capacity of system \_\_\_\_\_ 2,200,000 gallons per day.
2. Storage Capacity:  
 Elevated \_\_\_\_\_ 1,000,000 gallons  
 Ground \_\_\_\_\_ 100,000 gallons
3. List all current water supply sources in gallons.

Water Supply Source	Source Type*	Total Gallons
City Lake	Surface	896,095,012
	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)
2016	2,460	193,048,500
2017	2,527	198,306,325
2018	2,597	203,799,575
2019	2,668	210,940,800
2020	2,742	215,178,450
2021	2,748	215,649,300
2022	2,755	216,198,625
2023	2,762	216,747,950
2024	2,769	217,297,275
2025	2,776	217,846,600

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

The population for Year 2020 was obtained from the 2011 Regional Water Plan for 2000-2060 for Cities, Utilities, and County-Other by Region and County. The population for intermediate years estimated based on the growth rates from the Regional Water Plan projections.

Water use projection was based on assumed average Total Water Usage value of 215 gpcd for the population projections and multiplied by 365 days

### E. High Volume Customers

- 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
Colonial Pines Health Care Cntr	Commercial	5,219,000	Treated
Trinity Rehab & Retirement Cntr	Commercial	2,903,000	Treated
Twin Lakes Care Center	Commercial	2,754,000	Treated
San Augustine Inn	Commercial	1,311,000	Treated
Eastside Laundromat	Commercial	1,074,000	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](#).

- 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
San Augustine Rural WSC	Municipal	36,417,000	Treated
Bland Lake Rural WSC	Municipal	9,960,000	Treated
	Choose One		Choose One
	Choose One		Treated
	Choose One		Choose One

\*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.

Data for High Volume Customers based on billing data for the Year 2014.

## Section II: System Data

### A. Retail Connections

- 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	760	0	760	68%
Residential – Multi-family (units)	143	0	143	13%
Industrial	0	0	0	0%
Commercial	208	0	208	19%
Institutional	11	0	11	1%
Agricultural	0	0	0	0%
<b>TOTAL</b>	<b>1,122</b>	<b>0</b>	<b>1,122</b>	

\*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](#).

- 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				
	2014	2013	2012	2011	2010
Residential – Single Family	-20	-8	-7	-31	58
Residential – Multi-family (units)	0	0	0	0	0
Industrial					
Commercial	0	-3	-5	-11	7
Institutional	0	0	0	0	0
Agricultural					
<b>TOTAL</b>	<b>-20</b>	<b>-11</b>	<b>-12</b>	<b>-42</b>	<b>65</b>

\*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				
	2014	2013	2012	2011	2010
Residential - Single Family	38,445,000	43,378,000	43,744,000	53,227,000	76,161,000
Residential – Multi-family	9,611,000	10,905,000	11,934,545	12,614,000	11,787,000
Industrial	0	0	0	0	0
Commercial	30,712,000	32,787,000	34,584,000	39,726,000	49,938,000
Institutional	19,111,000	20,160,000	17,900,000	16,014,000	35,787,000
Agricultural	0	0	0	0	0
<b>TOTAL</b>	<b>97,879,000</b>	<b>107,230,000</b>	<b>108,162,545</b>	<b>121,581,000</b>	<b>173,673,000</b>

\*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				
	2014	2013	2012	2011	2010
Residential - Single Family	54	59	59	71	98
Residential – Multi-family	71	81	89	94	88

**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				
	2014	2013	2012	2011	2010
January	8,566,000	9,594,000	8,898,545	9,743,000	12,982,500
February	8,495,000	8,160,000	7,787,000	9,885,000	11,939,500
March	6,803,000	7,740,000	7,939,000	8,345,000	11,510,500
April	8,503,000	8,291,000	8,058,000	10,768,000	12,302,500
May	8,471,000	7,923,000	8,431,000	10,632,000	12,101,250
June	8,524,000	9,267,000	11,032,000	11,664,000	32,150,250
July	8,550,000	9,759,000	9,305,000	12,880,000	12,608,250
August	8,351,000	10,023,000	10,733,000	10,858,000	19,282,250
September	9,126,000	11,721,000	9,465,000	11,023,000	19,864,000
October	7,784,000	9,028,000	9,768,000	9,802,000	10,018,000
November	7,393,000	7,644,000	8,867,000	8,108,000	9,030,000
December	7,313,000	8,080,000	7,879,000	8,143,000	9,884,000
<b>TOTAL</b>	<b>97,879,000</b>	<b>107,230,000</b>	<b>108,162,545</b>	<b>121,851,000</b>	<b>173,673,000</b>

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

Month	Total Gallons of Raw Retail Water				
	2014	2013	2012	2011	2010
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

3. Summary of seasonal and annual water use.

Water Use	Seasonal and Annual Water Use					Average in Gallons
	2014	2013	2012	2011	2010	
Summer Retail (Treated + Raw)	25,425,000	29,049,000	31,070,000	35,402,000	64,040,750	36,997,350 5yr Average
TOTAL Retail (Treated + Raw)	97,879,000	107,230,000	108,162,545	121,851,000	173,673,000	121,759,109 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
2014	48,136,738	57	37%
2013	5,344,400	6	3%
2012	0	0	0%
2011	6,897,633	8	4%
2010	108,093,479	118	41%
<b>5-year average</b>	<b>33,694,450</b>	<b>38</b>	<b>17%</b>



### 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)
2014	268,161	304,200	1.13
2013	293,780	390,700	1.33
2012	296,335	357,766	1.21
2011	333,098	429,333	1.29
2010	475,816	1,071,675	2.25

### G. Summary of Historic Water Use

Water Use Category	Historic 5-year Average	Percent of Connections	Percent of Water Use
Residential SF	50,991,000	68%	0%
Residential MF	11,370,309	13%	0%
Industrial	0	0%	0%
Commercial	37,549,400	19%	0%
Institutional	21,794,400	1%	0%
Agricultural	0	0%	0%

### H. System Data Comment Section

Provide additional comments about system data below.

Accounting data obtained from the City's billing records. The "institutional" heading indicates water used by the City's municipal buildings and facilities (referred to as "city commercial" in the City's billing records. This institutional water usage is figured in with the domestic usage.

The daily average usage was estimated by taking the yearly usage divided by 365 days. The peak daily usage was estimated by taking the highest use month and dividing by 30 days.

Some monthly usage values were unavailable for multi-family residential in 2012 and 2010; and for some of the City's monthly "institutional" usage in 2010 and 2013. In those instances, the average value of the other available months was utilized for the missing values.

The above Water Loss table was filled out based on "Water Loss" estimate obtained from the City's Annual Water Audits. Note that no audit was available for the Year 2011, so that column was left blank. In 2012 a negative water loss was recorded; in that instance the value utilized in the table was 0 so as to not unbalance the 5-year average water loss.

## 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.)

- Design capacity of wastewater treatment plant(s): 900,000 gallons per day.
- 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	610	0	610	80%
Industrial	0	0	0	0%
Commercial	152	0	152	20%
Institutional	0	0	0	0%
Agricultural	0	0	0	0%
<b>TOTAL</b>	<b>762</b>	<b>0</b>	<b>762</b>	

- What percent of water is serviced by the wastewater system? 69%
- For the previous five years, enter the number of gallons of wastewater that was treated by the utility.

Month	Total Gallons of Treated Wastewater				
	2014	2013	2012	2011	2010
January	13,735,000	27,559,000	22,464,000	13,868,000	29,310,000
February	16,920,000	17,474,000	32,827,000	16,399,000	29,281,000
March	19,530,000	14,229,000	39,002,000	15,174,000	26,154,000
April	21,730,000	18,235,000	25,482,000	13,880,000	8,694,000
May	23,576,000	12,717,000	12,860,000	14,323,000	7,063,000
June	20,419,000	12,396,000	10,759,000	11,965,000	7,594,000
July	17,434,000	10,318,000	13,359,000	11,679,000	11,031,000
August	12,313,000	9,940,000	11,407,000	11,280,000	12,103,000
September	10,181,000	10,360,000	12,505,000	8,280,000	12,163,000
October	10,903,000	11,363,000	13,868,000	9,978,000	9,726,000
November	8,900,000	17,756,000	9,669,000	9,911,000	9,743,000
December	11,420,000	22,754,000	13,351,000	16,063,000	8,457,000
<b>TOTAL</b>	<b>187,061,000</b>	<b>185,101,000</b>	<b>217,553,000</b>	<b>152,800,000</b>	<b>171,319,000</b>



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	0
Plant wash down	0
Chlorination/de-chlorination	0
Industrial	0
Landscape irrigation (parks, golf courses)	0
Agricultural	0
Discharge to surface water	0
Evaporation pond	0
Other	0
<b>TOTAL</b>	<b>0</b>

**C. Wastewater System Data Comment**

Provide additional comments about wastewater system data below.

The City of San Augustine Wastewater Treatment Plant operates in the extended aeration mode. It is equipped with a bar screen, oxidation ditch, clarifiers, and chlorine contact chamber. The facility is permitted for a daily flow of 900,000 gallons per day and a two-hour peak flow of 3,036 gpm. Treated effluent is discharged from the facility to an un-named tributary of Ayish Bayou.

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.

