

# Water Conservation Plan Annual Report

## Retail Water Supplier

### CONTACT INFORMATION

Name of Utility: Goforth SUD

Public Water Supply Identification Number (PWS ID): TX1050019

Certification of Convenience and Necessity (CCN) Number: 11356

Surface Water Right ID Number:

Wastewater ID Number:

Check all that apply:

- Retail Water Supplier
- Wholesale Water Supplier
- Wastewater Treatment Utility

Address: 8900 Niederwald Strasse City: Niederwald Zip Code: 78640

Email: mario@goforthwater.org Telephone Number: 5123765695

Regional Water Planning Group: L

Groundwater Conservation District:

Contact: First Name: Jeff Last Name: Kallus

Title: Project Engineer

Regional Water Planning Group: L

Groundwater Conservation District:

Reporting Period (Calendar year):

Period Begin (mm/yyyy): 01/2016 Period End (mm/yyyy): 12/2016

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

## SYSTEM DATA

1. For this reporting period, select the category(s) used to classify customer water usage:

Retail Customer Water Usage Categories	
<input checked="" type="checkbox"/>	Residential - Single Family
<input type="checkbox"/>	Residential - Multi-family
<input type="checkbox"/>	Industrial
<input checked="" type="checkbox"/>	Commercial
<input type="checkbox"/>	Institutional
<input type="checkbox"/>	Agricultural

**Retail Customers Categories\***

- Residential Single Family
- Residential Multi-Family
- Industrial
- Commercial
- Institutional
- Agricultural

\*Recommended Customer Categories for classifying customer water use. For definitions, refer to [Guidance and Methodology on Water Conservation and Water Use](#).

2. For this reporting period, enter the number of connections for and the gallons of metered retail water used by each category. If the Customer Category does not apply, enter zero or leave blank. These numbers should be the same as those reported on the Water Use Survey.

Retail Customer Category	Number of Connections	Gallons Metered
Residential - Single Family	6,725	463,837,140
Residential - Multi-family	0	0
Industrial	0	0
Commercial	87	87,019,440
Institutional	0	0
Agricultural	0	0
<b>Total Retail Water Metered<sup>1</sup></b>	<b>6,812</b>	<b>550,856,580</b>

<sup>1</sup>Residential + Industrial + Commercial + Institutional + Agricultural = Total Retail Water Metered

## Water Use Accounting

	Total Gallons During the Reporting Period
<b>1. Corrected Input Volume:</b> The volume of treated water input to the distribution system from own production facilities. Same as line 13b of the Water Loss Audit for reporting periods >= 2015. Same as line 14 of the Water Loss Audit for reporting periods <= 2014.	<b>107,940,000</b>
<b>2. Corrected Treated Purchased Water Volume:</b> The amount of treated purchased wholesale water transferred into the utility's distribution system from other water suppliers system. Same as line 14b of the Water Loss Audit for reporting periods >= 2015. Same as line 15 of the Water Loss Audit for reporting periods <= 2014.	<b>486,603,000</b>
<b>3. Corrected Treated Wholesale Water Sales Volume:</b> The amount of treated wholesale water transferred out of the utility's distribution system, although it may be in the system for a brief time for conveyance reasons. Same as line 15b of the Water Loss Audit for reporting periods >= 2015. Same as line 16 of the Water Loss Audit for reporting periods <= 2014.	<b>0</b>
<b>4. Total System Input Volume:</b> This is the sum of the corrected input volume plus corrected treated purchased water volume minus corrected treated wholesale water sales volume. Same as line 16 of the Water Loss Audit for reporting periods >= 2015. Same as line 17 of the Water Loss Audit for reporting periods <= 2014. Produced + Imported - Exported = Total System Input Volume	<b>594,543,000</b>
<b>5. Billed Metered:</b> All retail water sold and metered. Same as line 17 of the Water Loss Audit for reporting periods >= 2015. Same as line 18 of the Water Loss Audit for reporting periods <= 2014.	<b>550,856,580</b>
<b>6. Other Authorized Consumption:</b> Water that is authorized for other uses such as back flushing, line flushing, storage tank cleaning, fire department use, municipal government offices or municipal golf courses/parks. This water may be metered or unmetered. Same as lines 18, 19, and 20 of the Water Loss Audit for reporting periods >= 2015. Same as lines 19, 20, and 21 of the Water Loss Audit for reporting periods <= 2014.	<b>7,431,788</b>
<b>7. Total Authorized Consumption:</b> All water that has been authorized for use. Same as Line 21 of the Water Loss Audit for reporting periods >= 2015. Same as line 22 of the Water Loss Audit for reporting periods <= 2014. Total Billed and Metered Retail Water + Other Authorized Consumption = Total Authorized Consumption	<b>558,288,368</b>
<b>8. Total Apparent Losses:</b> Water that has been consumed but not properly measured or billed (losses due to customer meter inaccuracy, systematic data handling discrepancy and/or unauthorized consumption such as theft). Same as line 27 of the Water Loss Audit for reporting periods >= 2015. Same as line 28 of the Water Loss Audit for reporting periods <= 2014.	<b>1,486,358</b>

<b>9. Total Real Loss:</b> Physical losses from the distribution system prior to reaching the customer destination (losses due to reported breaks and leaks, physical losses from the system or mains and/or storage overflow). Same as line 30 of the Water Loss Audit for reporting periods >= 2015. Same as line 31 of the Water Loss Audit for reporting periods <= 2014.	<b>34,768,275</b>
<b>10. Total Water Loss:</b> Apparent + Real = Total Water Loss	<b>36,254,633</b>

### Programs and Activities

1. What year did your entity adopt or revise their most recent Water Conservation Plan? 2014
2. Does The Plan incorporate [Best Management Practices](#)?  Yes  No
3. Using the table below select the types of Best Management Practices or water conservation and reuse strategies actively administered during this reporting period and estimate the savings incurred in implementing water conservation and reuse activities and programs. Leave fields blank if unknown. **Please separate reuse volumes from gallons saved.**

Methods and techniques for determining gallons saved are unique to each utility as they conduct internal cost analyses and long-term financial planning. Texas Best Management Practice can be found at TWDB's Water Conservation Best Management Practices [webpage](#). The [Alliance for Efficiency Water Conservation Tracking Tool](#) may offer guidance on determining and calculating savings for individual BMPs.

Best Management Practice	Check if Implemented	Estimated Gallons Saved	Estimated Gallons Reused
<b>Conservation Analysis and Planning</b>			
Conservation Coordinator	<input type="checkbox"/>		
Cost Effective Analysis	<input type="checkbox"/>		
Water Survey for Single Family and Multi-family Customers	<input type="checkbox"/>		
<b>Financial</b>			
Wholesale Agency Assistance Programs	<input type="checkbox"/>		
Water Conservation Pricing	<input checked="" type="checkbox"/>		
<b>System Operations</b>			
Metering New Connections and Retrofitting Existing Connections	<input checked="" type="checkbox"/>		
System Water Audit and Loss Control	<input checked="" type="checkbox"/>	10,000,000	
<b>Landscaping</b>			
Landscape Irrigation Conservation and Incentives	<input checked="" type="checkbox"/>		
Athletic Fields Conservation	<input type="checkbox"/>		
Golf Course Conservation	<input type="checkbox"/>		
Park Conservation	<input type="checkbox"/>		

Residential Landscape Irrigation Evaluation	<input type="checkbox"/>		
<b>Education and Public Awareness</b>			
School Education	<input type="checkbox"/>		
Public Information	<input checked="" type="checkbox"/>		
Small Utility Outreach and Education	<input type="checkbox"/>		
Partnerships with Nonprofit Organizations	<input type="checkbox"/>		
<b>Rebate, Retrofit, and Incentive Programs</b>			
Conservation Programs for ICI Accounts	<input type="checkbox"/>		
Residential Clothes Washer Incentive Program	<input type="checkbox"/>		
Water Wise Landscape Design and Conversion Programs	<input checked="" type="checkbox"/>		
Showerhead, Aerator, and Toilet Flapper Retrofit	<input type="checkbox"/>		
Residential Toilet Replacement Programs	<input type="checkbox"/>		
ICI Incentive Programs	<input type="checkbox"/>		
<b>Conservation Technology &amp; Resuse</b>			
New Construction Graywater	<input type="checkbox"/>		
Rainwater Harvesting and Condensate Reuse	<input type="checkbox"/>		
Reuse for On-site Irrigation	<input type="checkbox"/>		
Reuse for Plant Washdown	<input type="checkbox"/>		
Reuse for Chlorination/Dechlorination	<input type="checkbox"/>		
Reuse for Industry	<input type="checkbox"/>		
Reuse for Agriculture	<input type="checkbox"/>		
<b>Regulatory and Enforcement</b>			
Prohibition on Wasting Water	<input checked="" type="checkbox"/>		
<b>Retail</b>			
Other	<input type="checkbox"/>		
<b>Totals</b>			<b>10,000,000</b>

4. For this reporting period, estimate the savings from water conservation activities and programs.

Gallons Saved/Conserved	Gallons Recycled/Reused	Total Volume of Water Saved <sup>1</sup>	Dollar Value of Water Saved <sup>2</sup>
10,000,000		10,000,000	10,000

<sup>1</sup>Estimated Gallons Saved + Estimated Gallons Recycled/Reused = Total Volume Saved

<sup>2</sup>Estimated this value by taking into account water savings, the cost of treatment or purchase of water, and deferred capital cost due to conservation.

5. Comments or Explanations Regarding Data Entered in Sections Above.  
 Files to support or explain this may be attached below.

6. During this reporting period, did your rates or rate structure change?  Yes  No

Select the type of rate pricing structure used. Check all that apply.

<input type="checkbox"/>	
<input type="checkbox"/>	Uniform Rates
<input type="checkbox"/>	Flat Rates
<input checked="" type="checkbox"/>	Inclining/Inverted Block Rates
<input type="checkbox"/>	Declining Block Rates
<input type="checkbox"/>	Seasonal Rates
<input type="checkbox"/>	Water Budget Based Rates
<input type="checkbox"/>	Excess Use Rates
<input type="checkbox"/>	Drought Demand Rates
<input type="checkbox"/>	Tailored Rates
<input type="checkbox"/>	Surcharge - usage demand
<input type="checkbox"/>	Surcharge - seasonal
<input type="checkbox"/>	Surcharge - drought
<input type="checkbox"/>	Other

7. For this reporting period, select the public awareness or educational activities used.

Name	Implemented This Year	Number Of Times This Year	Total Population Reached this Year
Brochures Distributed	<input checked="" type="checkbox"/>	6,812	20,000
Messages Provided on Utility Bills	<input type="checkbox"/>		
Press Releases	<input type="checkbox"/>		
TV Public Service Announcements	<input type="checkbox"/>		
Radio Public Service Announcements	<input type="checkbox"/>		
Educational School Programs	<input type="checkbox"/>		
Displays, Exhibits, and Presentations	<input type="checkbox"/>		
Community Events	<input type="checkbox"/>		
Social Media campaign - Facebook	<input type="checkbox"/>		
Social Media campaign - Twitter	<input type="checkbox"/>		
Social Media campaign - Instagram	<input type="checkbox"/>		
Social Media campaign - YouTube	<input type="checkbox"/>		
Facility Tours	<input type="checkbox"/>		
Other	<input type="checkbox"/>		
<b>Total</b>		6,812	20,000

### Leak Detection and Water Loss

1. During this reporting period, how many leaks were repaired in the system or at service connections? 154

2. Select the main cause(s) of water loss in your system.

Water Loss Causes	
<input checked="" type="checkbox"/>	Distribution line leaks and breaks
<input type="checkbox"/>	Unauthorized use and theft
<input type="checkbox"/>	Master meter problems
<input type="checkbox"/>	Customer meter problems
<input type="checkbox"/>	Record and data problems
<input checked="" type="checkbox"/>	Other

Water tap leaks, flushing and draining on tanks for inspections.

3. For this reporting period, provide the following information on your distribution lines.

Total Length of Main Lines (miles)	Total Length Repaired (feet)	Total Length Replaced (feet)
195	1000	500

4. For this reporting period, provide the following information regarding your meters:

Type of Meter	Total Number	Total Tested	Total Repaired	Total Replaced
Production Meters	6	6		
Meters larger than 1 1/2 inches	18	18		
Meters 1 1/2 inches or smaller	6794	7		117

5. Does your system have automated meter reading?  Yes  No



### Program Effectiveness

1. Program Effectiveness

In your opinion, how would you rank the overall effectiveness of your conservation programs and activities?

Customer Classification	Less Than Effective	Somewhat Effective	Highly Effective	Does Not Apply
Residential Customers	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Industrial Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Institutional Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Commercial Customers	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agricultural Customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

2. During the reporting period, did you implement your Drought Contingency Plan?  Yes  No

3. Select the areas for which you would like to receive more technical assistance:

Technical Assistance Areas	
<input type="checkbox"/>	Best Management Practices
<input type="checkbox"/>	Drought Contingency Plans
<input type="checkbox"/>	Landscape Irrigation
<input type="checkbox"/>	Leak Detection and Equipment
<input type="checkbox"/>	Rainwater Harvesting
<input type="checkbox"/>	Rate Structures
<input type="checkbox"/>	Educational Resources
<input type="checkbox"/>	Water Conservation Annual Reports
<input type="checkbox"/>	Water Conservation Plans
<input type="checkbox"/>	Water IQ: Know Your Water
<input type="checkbox"/>	Water Loss Audits
<input type="checkbox"/>	Recycling and Reuse

## Water Loss, Target and Goals

### Total, Residential and Water Loss Gallons Per Capita per Day (GPCD) and Water Loss Percentage

The tables below display your current GPCD totals and water loss percentage for your service area.

Total System Input in Gallons Water Produced + Wholesale Imported - Wholesale Exported	Retail Population <sup>1</sup>	Total GPCD (System Input / Retail Population) / 365
594,543,000	20,000	81

<sup>1</sup>Retail Population is the total permanent population of the service area, including single family, multi-family, and group quarter populations

Residential Use in Gallons (Single Family + Multi-family)	Residential Population <sup>2</sup>	Residential GPCD (Residential Use / Residential Population) / 365
463,837,140	20,000	63

<sup>2</sup>Residential Population is the total residential population of the service area, including only single family and multi-family populations

Total Water Loss in Gallons Apparent + Real = Total Water Loss	Retail Population	Water Loss GPCD <sup>3</sup>	Water Loss Percent
36,254,633	20,000	4	6.10%

<sup>3</sup>(Total Water Loss / Residential Population) / 365 = Water Loss GPCD  
 (Total Water Loss / Total System Input) \* 100 = Water Loss Percentage

The table below displays the specific and quantified five-year and ten-year goals listed in your current Water Conservation Plan alongside the current GPCD and water loss totals.

Achieve Date	Target for Total GPCD	Current Total GPCD	Target for Residential GPCD	Current Residential GPCD	Target for Water Loss GPCD	Current Water Loss GPCD	Target for Water Loss Percentage	Current Water Loss Percentage
Five-year Target Date 2019	90	81	72	63	12	4	13.33 %	6.10 %
Ten-year Target Date 2024	87	81	70	63	10	4	11.49 %	6.10 %