

Do you know where your plan is?

North Texas Water Conservation Symposium Arlington, TX

John T. Sutton
Texas Water Development Board

Unless specifically noted, this presentation does not necessarily reflect official Board positions or decisions.

Who Needs to Submit?

≥3300
connections

Financial
obligation
w/TWDB >\$500k

Surface water
right w/TCEQ

Wholesale
customer

When to Revise?

Every five years

Due May 1

More often if needed

Helpful Hint: Plan year is considered the year it was adopted, not drafted

Starting with the Basics

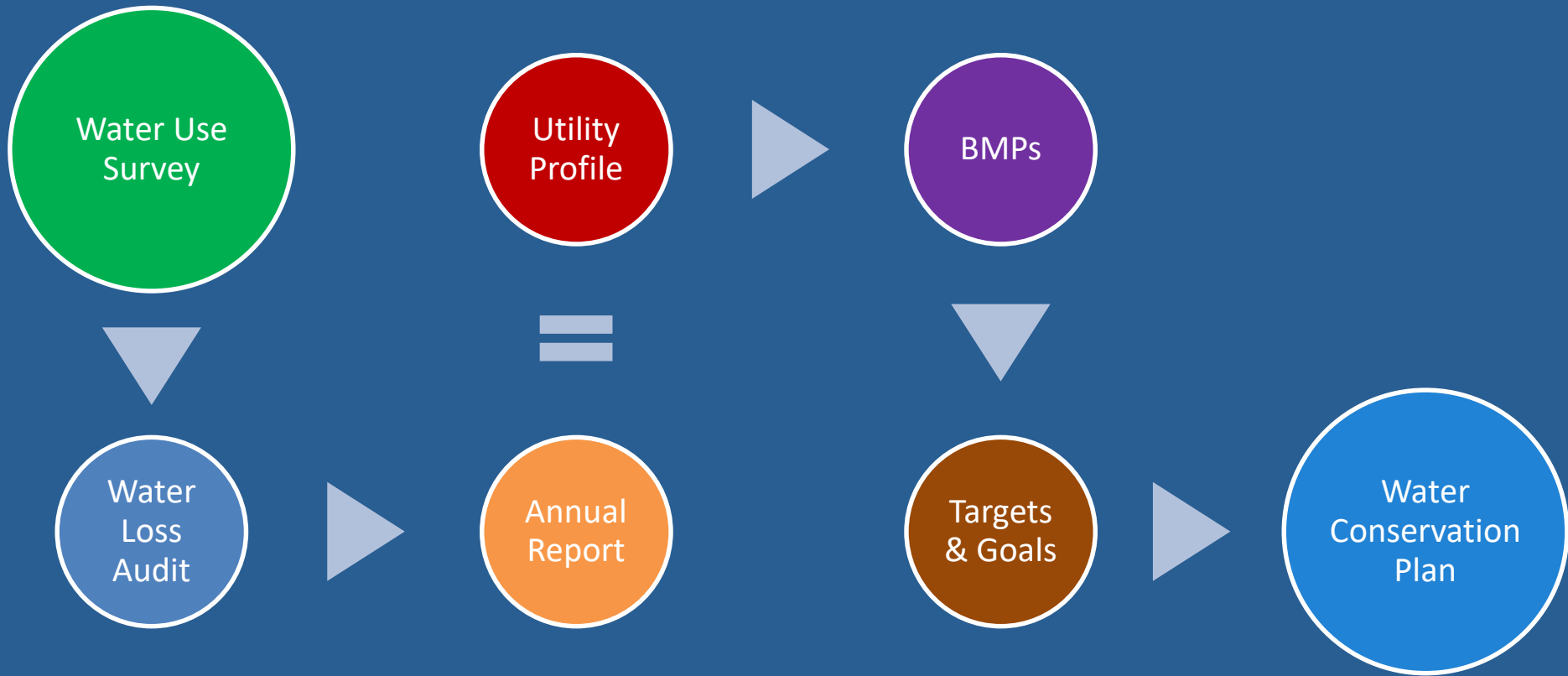
DO

- Other departments
- Involve customers
- Use the data
- Be realistic
- Set goals
- **Provide details**

Don't

- Copies of TWDB materials
- Complete text of Texas Code
- General statements
- Copy other plans

Process



Online Application



Water Loss, Use and Conservation

WLUC Water Use Survey Water Loss Audit Water Conservation

Water Loss Audit

- Water Loss Audit List

PWS Code	System Name	Year Due	Status	Submitted Date	Authorized Users
1260002	City of Watertown	2019	Not Submitted		

Water Conservation Annual Report

- WC Annual Report List

PWS Code	Utility Type	System Name	Year Due	Status	Submitted Date	Authorized Users
1260002	Retail Water Supplier	City of Watertown	2019	Not Started		

Water Conservation Utility Profile

- WC Utility Profile List

No record found

Water Conservation Plan

- WC Plan List

No record found

Water Loss

Texas Water Development Board Water Loss Audit [Home](#) [Logout](#) [Agents](#) [Policies](#) [Contact Us](#)

Home **Worksheet** Audit Report Request Access WLUC Home APN#

Water Audit Report for 260863, Year 2017 Save Submit Worksheet Help for Form Completion Assessment Scale Cancel

Close Instructions

The Save button will save any data you enter for retrieval on future visits to this site.
Use the Submit Worksheet button to save your data and indicate that your form is completed and ready for TWDDB review.

IMPORTANT - Read this - How to use the Save, Submit Worksheet and Un-Submit Worksheet buttons -->

If further assistance is needed contact WGA_Group@twdb.texas.gov or 512.483.2867.

FIELDS MARKED WITH A RED STAR MUST BE FILLED OUT BEFORE THIS FORM CAN BE SUBMITTED.

A. Water Utility General Information

1. Water Utility Name: CITY OF ROUND ROCK

1a. Regional Water Planning Area: G

1b. Address: 221 E MAIN ST
ROUND ROCK, TX 78664-6271

2. Contact Information

* 2a. Name: Luc Test

* 2b. Telephone Number: (512) 623-4567

* 2c. Email Address: lucscott08@gmail.com

Have you completed Water Loss Auditor Training?

Yes

No

3. Reporting Period

* 3a. Start Date: (m/yyyy)

* 3b. End Date: (m/yyyy)

[WLUC](#)
[Water Use Survey](#)
[Water Loss Audit](#)
[Water Conservation](#)

Water Use Survey

- **Water Use Survey List**

Survey Number	PWS Code	System Name	Status	File Date	Authorized Users
0316200	840003	Water Springs SUD	Submitted		123

Water Loss Audit

- **Water Loss Audit List**

PWS Code	System Name	Year Due	Status	Submitted Date	Authorized Users
840003	Water Springs SUD	2019	Submitted	05/01/2018	

Water Conservation Annual Report

- **WC Annual Report List**

PWS Code	Utility Type	System Name	Year Due	Status	Submitted Date	Authorized Users
840003	Retail Water Supplier	Water Springs SUD	2019	Not Started		

Water Conservation Utility Profile

- **WC Utility Profile List**

PWS Code	Utility Type	System Name	Year Due	Status	Submitted Date	Authorized Users
840003	Retail Water Supplier	Water Springs SUD	2018	Not Started		

Water Conservation Plan

- **WC Plan List**

PWS Code	Utility Type	System Name	Year Due	Status	Submitted Date	Authorized Users
840003	Retail Water Supplier	Water Springs SUD	2019	Not Started		

- Utility Profile
- Conservation Plan
- Annual Report

Utility Profile
Retail Water Supplier

SECTION I: Utility Data

Water Utility General Information

Name of Utility: Effervescent Water Supply

B. System Input

Provide system input data for the previous five years
Total System Input = Self supplied + Imported - Exported

Year	Water Produced in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2018	24,053,096,907	0	1,284,475,258	22,768,621,649	192
2017	22,903,189,691	0	1,344,741,237	21,558,448,454	182
2016	25,064,414,141	0	1,327,069,388	23,737,344,753	203
2015	23,269,618,947	15,099,738,852	12,668,445,835	25,700,911,964	220
2014	23,464,359,009	15,322,817,424	12,460,868,091	26,326,308,342	225
Historic Average	23,750,935,739	6,084,511,255	5,817,119,962	24,018,327,032	204

- + Utility Profile
- Conservation Plan
- Annual Report

Utility Profile
Retail Water Supplier

SECTION II: System Data

Water Utility General Information

Name of Utility: Effervescent Water Supply

B. Accounting Data

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

Water Use Category	Residential - Single Family	Residential - Multi-family (units)	Industrial	Commercial	Institutional	Agricultural	Total
2018	1,740,205,118	52,790,190	0	344,619,018	48,159,390	0	2,185,773,716
2017	1,644,972,157	50,912,940	0	321,091,629	62,014,950	0	2,078,991,676
2106	16,551,000	0	0	0	0	0	16,551,000
2015	18,087,000	0	0	0	0	0	18,087,000
2014	1,554,150,103	44,820,240		292,897,623			1,891,867,966

+ Utility Profile
Conservation Plan
Annual Report

Utility Profile
Retail Water Supplier

SECTION II: System Data

F. Peak Day Use

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2014	5,866,731	6,873,456	1.1716
2015	4,897,126	4,064,717	0.8300
2016	5,165,980	5,814,836	1.1256
2017	6,413,742	8,316,717	1.2967
2018	6,726,172	8,916,228	1.3256

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	994,793,075	92.87%	80.34%
Residential - Multi-Family	29,704,674	1.38%	2.40%
Industrial	0	0.00%	0.00%
Commercial	191,721,654	5.71%	15.48%
Institutional	22,034,868	0.03%	1.78%
Agricultural	0	0.00%	0.00%

Requirements

Evaluation of w/ww system, this includes UP

5 & 10-year goals for Total, Residential, and Water Loss GPCDs

Implementation schedule to achieve goals

Method for tracking implementation and effectiveness

Master meter and universal metering information

Measures to determine water loss

Leak detection, repair, and water loss program details

Non-promotional water rate structure

Means of implementation and enforcement

Documentation to regional water planning group

Copy of Drought Contingency Plan

Considerations



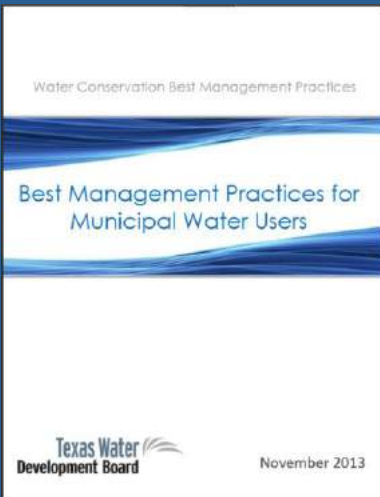
TEXAS WATER DEVELOPMENT BOARD
P.O. BOX 10274 CANTON, TEXAS
817.371.1233
2014 WATER AUDIT REPORT

A. Water Utility General Information

1. Water Utility Name
2. Contact Information
3. Billing Period
4. Service Area
5. Population Served
6. Number of Meters
7. Number of Connections
8. Service Connection Density
9. Average Yearly System Operating Pressure
10. Volume Units of Measure

B. System Status

11. System Status
12. System Loss
13. System Loss Accuracy
14. Combined Head Volume
15. System Loss Accuracy
16. Combined Head Volume
17. System Loss Accuracy
18. Combined Head Volume
19. System Loss Accuracy
20. Combined Head Volume

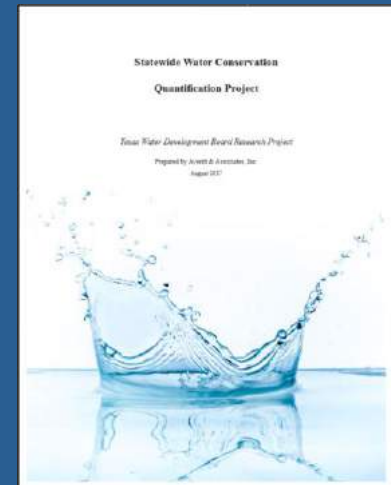


WATER CONSERVATION PLAN
5- AND 10-YR GOALS FOR WATER SAVINGS

Facility Name: _____
Water Conservation Plan Year: _____

	Historic 5-yr Average	Baseline	5-yr Goal for year _____	10-yr Goal for year _____
Total GPCD ¹				
Residential GPCD ²				
Water Loss (SPCC) ³				
Water Loss (Percentage) ⁴	%	%	%	%

1. Total GPCD = Total Gallons in System - Reservoir Population ÷ 365
2. Residential GPCD = (Population Served × Household Population) ÷ 365
3. Water Loss (SPCC) = (Total Water Loss - Reservoir Population) ÷ 365
4. Water Loss (Percentage) = (Total Water Loss - Reservoir Population) ÷ Total Water Loss × 100



Conservation Tool

- Pre-loaded data for 462 water utilities
- Alternative base and projected data can be used
- Menu of possible conservation activities
- Develop and save different scenarios
- Estimate water savings and costs
- Estimate water savings for annual report

Best Management Practices

- Probably Doing
 - Conservation coordinator
 - Pricing/rates
 - Metering all connections
 - System audit & loss control
 - Public information
- Strongly Consider
 - Pricing/rates
 - School education/public info
 - Partnering with nonprofits
 - Prohibiting water waste
- Need to Consider
 - Cost effective analysis
 - Athletic field, golf course, and park conservation
 - Landscape irrigation conservation and incentives
 - Residential irrigation audits
 - ICI programs
 - Incentive programs
 - Graywater
 - Rainwater harvesting and reuse programs
 - Wholesale agency assistance
 - Small utility outreach

Details, Details, Details!



Reports

Utility Name:

Get Graph Report

AR GPCD

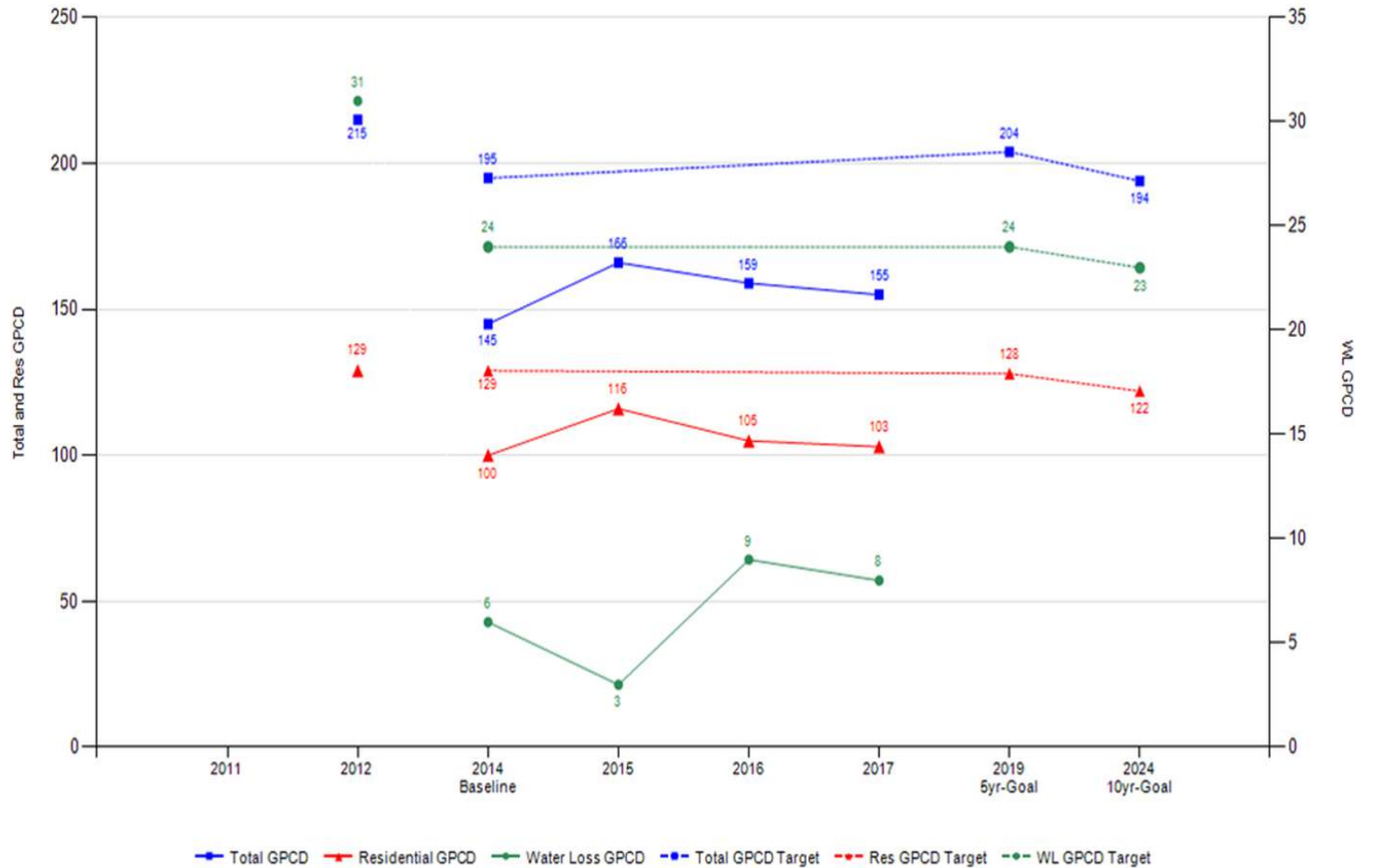
Connections Data

Water Use Data

Targets & Goals



City of Watertown



Utility Profile
+ Conservation Plan
Annual Report

Conservation Plan Retail Water Supplier

CONTACT INFORMATION

Wastewater ID Number: 20288

Conservation Plan Contact Information:

Last Name: *

First Name: *

Title:

Address:

City: State: **Select**

Zip:

Zip+4:

Email: *

Phone: * x

* Is this person the designated Conservation Coordinator? Yes No

Regional Water Planning Group: M

Groundwater Conservation District:

Our records indicate that you:

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

Utility Profile

+ Conservation Plan

Annual Report

Water Conservation Plan

5-AND 10-YR GOALS FOR WATER SAVINGS For Retail Water Supplier

Provide specific and quantified five- and 10-year goals in the table below.

In the first column, historic data, if available, from previously submitted annual reports has been entered.

For assistance in determining how to identify appropriate goals for your Water Conservation Plan, refer to [Water Conservation Plans ~ Identifying Targets and Goals](#).

	Historic 5 Year Average	Baseline	5-Year Goal For year 2023	10-Year Goal For year 2028
Total GPCD ¹	157	<input type="text"/>	151	148
Residential GPCD ²	85	<input type="text"/>	120	119
Water Loss (GPCD) ³	17	<input type="text"/>	15	13
Water Loss Percentage ⁴	10.83 %	0.00 %	9.93 %	8.78 %

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 1000 or (Water Loss GPCD / Total GPCD) x 100

Upload Conservation Plan:

Attach File(s)

- Utility Profile
- Conservation Plan
- Annual Report

Water Conservation Plan

5-AND 10-YR GOALS FOR WATER SAVINGS For Retail Water Supplier

Provide specific and quantified five- and 10-year goals in the table below. In the first column, historic data, if available, from previously submitted annual reports has been entered.

For assistance in determining how to identify appropriate goals for your Water Conservation Plan, refer to [Water Conservation Plans – Identifying Targets and Goals](#).

	Historic 5 Year Average	Baseline	5-Year Goal For year 2024	10 Year Goal For year 2029
Total GPCD ¹	144	141	143	139
Residential GPCD ²	78	74	77	75
Water Loss (GPCD) ³	8	8	14	14
Water Loss Percentage ⁴	6.00 %	5.67 %	10.00 %	10.00 %

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 1000 or (Water Loss GPCD / Total GPCD) x 100

Upload Conservation Plan:

View	Delete	File Name	File Description
		Waterwood_-_WCP18.pdf	

Now What?

Wrote it

Submitted it

TWDB/TCEQ approved it

Done?

In Summary...

- Address the minimum requirements
- Consider best management practices
- Incorporate projects/activities
- **Provide details!**
- Utilize available resources (**new tool!**)
- Request an early review of draft
- Use plan as a beneficial tool
- Surface water right holders follow TCEQ

Resources

- Historic report data

www.twdb.texas.gov/apps/wcreps/wcreports.aspx

- Online reporting application (LUC)

- Water conservation information

www.twdb.texas.gov/conservation/municipal/plans/index.asp

- Best management practices

www.twdb.texas.gov/conservation/BMPs/Mun/index.asp

And More...

- Quantifying Conservation Report

www.twdb.texas.gov/conservation/doc/StatewideWaterConservationQuantificationProject.pdf?d=8371.500000008382

- Regional water plans

www.twdb.texas.gov/waterplanning/rwp/index.asp

- Conservation Planning Tool
- Us!

John Sutton

Municipal Water Conservation

john.Sutton@twdb.texas.gov

512-463-7988

Shae Luther

Water Conservation Specialist

shae.luther@twdb.texas.gov

512-463-8830