AQUA
WATER SUPPLY CORPORATION
Safe • Reliable • Sustainable


October 25, 2022

Mr. Jim Totten
General Manager
Lost Pines Groundwater Conservation District
PO Box 1027
Smithville, Texas 78957

Re: LPGCD Form 100 and Form 200
Request for Operating Permit
Aqua Water Supply Corporation – Watterson Well #2

Dear Mr. Totten:

Please find attached Form 100 and Form 200 requesting a Drilling Permit and Operating Permit for an additional Aqua WSC well.

The water to be produced will be used to address growth within Aqua WSC's CCN. The water produced will be used for domestic use within Aqua WSC's CCN. End users of the requested water will be the populace in Bastrop, Lee, and Caldwell counties. Aqua WSC agrees to comply with well plugging guidelines and will report well closure to the TCEQ.

The following documents are attached to the application:

1. A location map
2. Results of a 36-hour pump test
3. Aqua WSC's Water Conservation Plan
4. Aqua WSC's Drought Contingency Plan

If you have any questions, please contact Emily Poston at (512) 304-0352, or this office, directly.

Kind regards,

Emily Poston
Civil Engineer

415 Old Austin Hwy. | Drawer P | Bastrop, TX 78602 | 512-303-3943 | fax: 512-303-4881
www.aquawsc.com

# Lost Pines Groundwater Conservation District
# Drilling Registration

**Application Number: 67-06-1-0027**
**Date of Application: 10/26/2022**
**Owner: Aqua Water Supply Corp.**
**Address: PO Drawer P**
**City, State, Zip Code: Bastrop, TX**
**Type of Well: Municipal Supply**

It has been determined that the above applicant plans to drill a water well which would be exempt under Lost Pines Groundwater Conservation District rule 8.6. The applicant has registered the well with the District and may proceed with the drilling of the well. The drilling must comply with Lost Pines Groundwater Conservation District rules and must be completed within one hunderd eighty (180) days.

Dana Goertz

James Totten, General Manager
Lost Pines Groundwater Conservation District

10/24/2022

Date

# FORM 100
## Well Drilling Application

**For District Use Only:**

10/26/2022
Application Date

67 06 1 0027
Well Drilling Permit Number

**Return this Form to: LPGCD, PO Box 1027 (908 Loop 230), Smithville, TX 78957**
**Phone: 512-360-5088 FAX: 512-360-5448 Email: lpgcd@lostpineswater.org**

### SECTION I – APPLICANT

Name EMILY POSTON

Company (if applicable) AQUA WATER SUPPLY CORPORATION

Street (or PO Box) PO DRAWER P

City BASTROP State TX Zip 78602

Phone Number (512) 304 0352

### SECTION II – DRILLING SITE DESCRIPTION

Physical Description of Proposed Drilling Site (use GPS coordinates if known.)

29.994137 N, 97.367376 W

County that the Drilling Site is Located in: Bastrop X Lee ____

Is the proposed well located within a neighborhood or subdivision? Yes ____ No X

If Yes, which neighborhood or subdivsion? ____

### SECTION III – AUTHORIZATION TO DRILL

Is the Applicant the same as the Property Owner of the Proposed Drilling Site? Yes X No ____

If Property Owner is different from Applicant shown in Section I, contact information and a notarized letter of authorization to drill from the property owner **must** be attached to this application.

**SECTION V – WELL INFORMATION**

What will be the primary use of the well (circle one)?

*Domestic Livestock Irrigation (Municipal Supply) Mining Rig Supply Test Other* _____

What is the proposed aquifer that the well will produce from (if known)? CARRIZO

What will be the approximate total depth of the well (if known)? 1000 feet

Will the Applicant be requesting an exemption under LPGCD Rule 3.1? Yes____ No X

If Yes, type of exemption claimed:

_____ A well that is solely for domestic or livestock use that is incapable of producing more than 25,000 gallons per day (gpd).

_____ A well that uses less than 200 acre-feet/year solely for agricultural use.

_____ A well that is used solely to supply water for a rig that is actively engaged in drilling or exploration operations for an oil or gas well permitted by the Railroad Commission of Texas.

_____ A water well authorized under a permit issued by the Railroad Commission of Texas for mining activities.

_____ A water well drilled and completed solely for the purposes of aquifer testing.

**SECTION IV – AFFIRMATION**

**I certify that all statements and information in this application are true and correct.**

Emily Poston
Signature of Applicant

10/25/2022
Date

# FORM 200
## Operating/Transport Permit Application

**For District Use Only:**

Application Date

Temporary Permit Number

**Return this Form to: LPGCD, PO Box 1027 (908 Loop 230), Smithville, TX 78957**
**Phone: 512-360-5088 FAX: 512-360-5448 Email: lpgcd@lostpineswater.org**

**SECTION I – APPLICANT**

Name EMILY POSTON

Company (if applicable) AQUA WATER SUPPLY CORPORATION

Street (or PO Box) PO DRAWER P

City BASTROP State TX Zip 78602

Phone Number (512) 304 0352

**SECTION II – WELL INFORMATION**

What aquifer will the well be producing from? CARRIZO

What is the known or proposed total depth of the well? 1,000 feet

What is the known or proposed screened interval of the well? 745 - 1,000 feet

What is the known or proposed capacity of the well? 2,000 gpm

Is this Application for an existing well already registered with the LPGCD? Yes _____ No X

If Yes, what is the Well Number? _____

If No, has a Well Drilling Application (Form 100) or Well Registration Application (Form 300) been submitted? Yes X No _____

Well location (use GPS coordinates if known.) 29.994137 N, 97.367376 W

County that the well is located in: Bastrop X Lee _____

**SECTION III – WITHDRAWAL AMOUNT REQUESTED**

What is the total maximum withdrawal requested? 3,226 acre-feet/year

Proposed maximum rate at which water will be withdrawn: 2,000 gpm

Is the Applicant requesting that the withdrawal be aggregated with another well? Yes_____ No X

If Yes, list other wells: _____

**SECTION IV – PROPOSED USE**

What is the proposed use of water from the well?

X Municipal Supply ___ Mining ___ Irrigation ___ Other (describe) _____

List proposed usage of water produced from well and the amount of usage:

Use MUNICIPAL Amount used 3,226 acre-feet/year

Use _____ Amount used _____ acre-feet/year

Use _____ Amount used _____ acre-feet/year

**SECTION V – TRANSPORT INFORMATION**

Will this well be used to export water outside of the LPGCD? Yes _____ No X

If Yes, what is the maximum amount of water proposed to be exported: _____ acre-feet/year

If Yes, location of the use of the water: _____

**SECTION VI – REQUIRED ATTACHMENTS**

The following attachments are required with an Operating Permit Application:

X Location map or property plat showing all registered or permitted wells within 5,000 feet of the proposed location

X Results of a 36-hour pumping test (if the application is for more than 200 acre-feet/year)

X Statement describing how the amount of water requested addresses an existing or projected need, including when that water supply need is projected to occur.

X Statement describing how the amount of water requested will be dedicated to a beneficial use.

X Statement identifying the End User of the requested water or that the End User has not been identified.

X Applicant's or End User's Water Conservation Plan (if available)

X Applicant's or End User's Drought Contingency Plan (if available)

X Applicant's or End User's Well Closure Plan or declaration that the applicant will comply with well plugging guidelines and report closure to the TCEQ.

____ Any other information (describe)_____

**SECTION VII – DECLARATIONS**

The Applicant agrees to the following conditions:

X I agree to avoid waste and achieve water conservation.

X I agree that reasonable diligence will be used to protect groundwater quality.

X I agree that well plugging guidelines will be followed at the time of well closure.

Emily Porton

Signature of Applicant

10/25/2022

Date

## SECTION VIII – AFFIRMATION AND EXECUTION

**I certify that all statements and information in this application are true and correct.**

Emily Poston
Signature of Applicant

10/25/2022
Date

THE STATE OF TEXAS

COUNTY OF Bastrop

I certify that the following person (s) personally appeared before me on this day, each acknowledging to me that he or she signed this Operating/Transport Permit Application.

Date: 10/25/2022

Signature of Notary

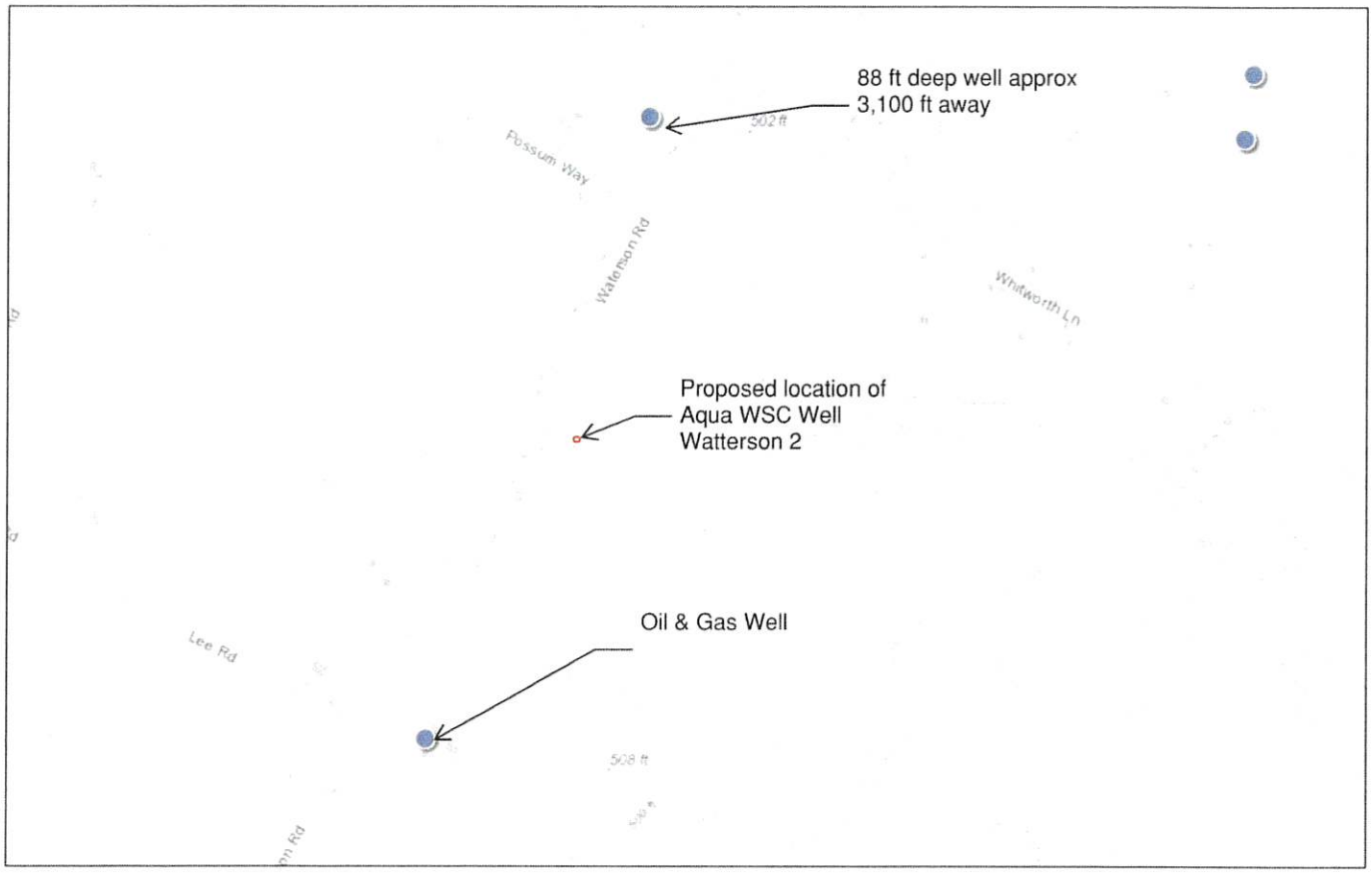
Patricia Hernandez
Printed Name of Notary

My commission expires: Sept. 8, 2024

(Seal)
PATRICIA HERNANDEZ
Notary Public, State of Texas
Notary ID# 1209729-6
My Commission Expires
SEPTEMBER 8, 2024

**Can be notarized by any Notary of your choice or at the LPGCD Office**

# Watterson 2 Location




Texas Water Development Board

October 25, 2022

TWDB Groundwater

0 0.15 0.3 0.6 mi
0 0.25 0.5 1 km
1:18,056

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri



TEXAS WATER DEVELOPMENT BOARD

# AQUIFER TEST DATA

Owner Aqua WSC Address _____ County Bastrop State _____

Date 10-3-02 Company performing test Russell Measured by _____

Well No. 2 Watterson Rd Distance from pumping well _____ Type of test _____ Test No. 1

Measuring equipment 2" meter & Air line pump set at 336

**Time Data**
Pump on: Date 10-2-02 Time 635 (la)
Pump off: Date _____ Time _____ (la')
Duration of aquifer test:
Pumping _____ Recovery _____

**Water Level Data** 69 psi 177
Static water level ~~169~~ ~~173~~
Measuring point g.l.
Elevation of measuring point _____

**Discharge Data**
How Q measured _____
Depth of pump/air line 336'
Previous pumping? Yes ___ No ___
Duration _____ End _____

Comments on factors affecting test data

test 745-770 feet

| Date | Clock time | Time since pump started t | Time since pump stopped t' | t/t' | psi | Water level measurement | Correction or Conversion | Water level 135 | Water level change s or s' | | Discharge measurement | Rate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~10-2~~ | ~~2:00~~ | | | | | | | | | | | | |
| | ~~2:30~~ | | | | | | | | | | | | |
| 10-2-02 | 6:35 | | | | 69 | 174 | | | | | | 52 | |
| | 7:00 | | | | 13 | | | | | | | 52 | |
| | 8:00 | | | | 11 | 311 | | | | | | 52 | |
| | 9:00 | | | | 11 | | | | | | | 52 | |
| | 10:00 | | | | 11 | | | | | | | 52 | |
| | 11:00 | | | | 11 | | | | | | | 52 | |
| | 12:00 | | | | 11 | | | | | | | 52 | |
| | 1:00 AM | | | | 11 | | | | | | | 52 | |
| | 2:00 | | | | 11 | | | | | | | 52 | |
| | 3:00 | | | | 11 | | | | | | | 52 | |
| | 4:00 | | | | 11 | | | | | | | 52 | |
| | 5:00 | | | | 11 | | | | | | | 52 | |
| | 6:00 | | | | 11 | | | | | | | 52 | |
| | 7:00 | | | | 11 | | | | | | | 52 | |
| | 8:00 | | | | 11 | | | | | | | 52 | |
| | 9:00 | | | | 11 | | | | | | | 52 | |
| | 9:05 | | | | 52 | | | | | | | | |
| | 9:10 | | | | 69 | | | | | | | | |

Travis

# RUSSELL DRILLING CO., INC.

15286 U.S. HWY 259N
NACOGDOCHES, TX 75961
(936) 569-8909 Fax (936) 569-1948

TEST CONDUCTED BY: L B
WELL OWNER: AQUA
PUMPED WELL NO.
AIRLINE LENGTHS: 357
STATIC WATER LEVEL: 77 PST = 180
REMARKS: pump set at 357

ADDRESS: Matheson Rd Test # 2
LOCATION:
PUMPED WELL

Test hole #2
2" meter

625 1st
635

| PUMPED WELL DATA | | | |
|---|---|---|---|
| DATE & TIME PM | PUMPING RATE | WATER LEVEL | REMARKS |
| 10-31-02 5:00 | 62 | 77 180 | |
| 6:00 | 62 | 67 203 | |
| 7:00 | 62 | 67 203 | |
| 8:00 | 62 | 67 203 | |
| 9:00 | 62 | 67 203 | |
| 10:00 | 62 | 67 203 | |
| 11:00 | 62 | 67 203 | |
| 12:00 | 62 | 67 203 | |
| AM 1:00 | 62 | 67 203 | |
| 2:00 | 62 | 67 203 | |
| 3:00 | 62 | 67 203 | |
| 4:00 | 62 | 67 203 | |
| 5:00 | 62 | 67 203 | |
| 6:00 | 62 | 67 203 | |
| 7:00 | 62 | 67 203 | |
| 8:00 | 62 | 67 203 | |
| | | | |
| 8:05 | | 77 = 180 | |

Travis

AQUA
WATER SUPPLY CORPORATION
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**COMPANY POLICY**

# Water Conservation Plan

## Policy No. PL009

### Revision A, Effective 04-08-2019

## Aqua Water Supply Corporation

415 Old Austin Hwy., P. O. Drawer P, Bastrop, Texas, 78602, (512) 303-3943

Aqua Water Supply Corporation's Water Conservation Plan for Aqua's Retail Water Certificate of Convenience and Necessity Number 10294.

# Contents

# 1. Purpose

To define a policy to ensure water use efficiency within Aqua Water Supply Corporation's operations. The Water Conservation Plan is a strategy or combination of strategies for reducing the consumption of water, reducing the loss or waste of water, improving or maintaining the efficiency in the use of water, or increasing recycling and reuse of water. The plan contains best management practice measures to try to meet the targets and goals identified within the plan.

# 2. Application

This policy applies apply to all persons, customers, and property utilizing water provided by Aqua Water Supply Corporation. The terms "person" and "customer" as used in the Water Conservation Plan include individuals, corporations, partnerships, associations, and all other legal entities.

# 3. Definition of Terms

## 3.1 Aesthetic Water Use

The use of water for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

## 3.2 Aqua

The Aqua Water Supply Corporation as represented by its Board of Directors.

## 3.3 Aqua's System

Aqua's production, treatment, storage facilities, and transmission facilities used to provide water service to Aqua's members and those individuals and entities contracting with Aqua.

## 3.4 Board of Directors or Board

The duly elected members of the Board of Directors of Aqua Water Supply Corporation.

## 3.5 Certificate of Convenience and Necessity (CCN)

A specified geographic area designated by the Public Utility Commission of Texas (PUC) in which the holder has the exclusive right to provide retail water service. Chapter 13 of the Texas Water Code requires a CCN holder to provide continuous and adequate service to the area within its CCN boundary.

## 3.6 Commercial and Institutional Water Use

The use of water integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants, and office buildings.

## 3.7 Conservation

Those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

## 3.8 Customer

Any person, company, or organization using water supplied by Aqua WSC.

## 3.9 Domestic Water Use

The use of water for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or cleaning a residence, business, industry, or institution.

## 3.10 Drought Contingency Plan

A strategy or combination of strategies for monitoring the progression of a drought and preparing a response to potential water supply shortages resulting from severe droughts or other water supply emergencies.

## 3.11 Dwelling, Dwelling Unit, or Residence

A home, house, mobile home, manufactured home, apartment unit, or any unit in a multiunit residential structure maintaining a restroom facility and area for preparation or storage of foods. A recreational vehicle that is not located in a recreational vehicle park shall be considered a dwelling under this Tariff if it is connected to an Aqua meter and is used for human habitation.

## 3.12 Industrial Water Use

The use of water in processes designed to convert materials of lower value into forms having greater usability and value.

## 3.13 Landscape Irrigation Use

The use of water for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, and rights-of-way and medians.

## 3.14 Non-Essential Water Use

The use of water not essential nor required for the protection of public, health, safety, and welfare, including, but not limited to:

a. The use of water to irrigate landscape areas including parks, athletic fields, and golf courses except as otherwise provided;

b. The use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;

c. The use of water to wash down sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;

d. The use of water to wash down buildings or structures for purposes other than immediate fire protection;

e. The use of water to flush gutters or permitting water to run or accumulate in any gutter or street;

f. The use of water to fill, refill, or add to any indoor or outdoor swimming pools or jacuzzi-type pools;

g. The use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;

h. The failure to repair a controllable leak(s) within a reasonable period after receiving notice directing the repair of such leak(s); and

i. The use of water from hydrants for construction purposes or any purpose other than fire-fighting.

## 3.15 Production and Storage Facilities

The equipment, structures, and appurtenances necessary to produce, treat, and store water from groundwater or surface water sources for delivery to General Purpose Transmission Facilities.

## 3.16 Service Area

That area to which Aqua may lawfully provide water service, whether within or outside the area described by the Certificate of Convenience and Necessity (CCN) held by Aqua.

# 4. Responsibilities

## 4.1 Board of Directors

Creates a statement of mission and purpose articulating the goals, means, and the constituents to be served by Aqua. Sets goals and creates policies in support of this mission and provides direction, guidance, governance, and oversight to ensure Aqua is on track with regard to meeting its goals. The Board adopts a resolution approving a Water Conservation Plan and authorizing Aqua's General Manager to implement the Water Conservation Plan.

## 4.2 General Manager

Executes the policies, plans, and directives of the Board of Directors to meet Aqua's goals as articulated in the mission. Assists the board in developing and disseminating policies and plans to the staff. Ensures the staff understands and executes planning directives and policies and brings staff ideas and/or concerns to the Board's attention. Implements the applicable provisions of the Water Conservation Plan.

## 4.3 Assistant General Manager

Executes the policies, plans, and directives of the Board and General Manager to meet Aqua's goals as articulated in the mission. Assists the General Manager in developing and disseminating policies and plans to the staff. Ensures the staff understands and executes planning directives and policies and brings staff ideas and/or concerns to the General Manager's attention.

## 4.4 Water Conservation Manager

Implements the Water Conservation Plan and is the water conservation coordinator. Assist the General Manager in creating and implementing strategies and programs to reduce and control water loss.

## 4.5 Engineering Manager

Directs Engineering to plan, manage, direct, and coordinate engineering operations for water and wastewater treatment systems and facilities, capital improvement projects, right-of-way functions, SCADA systems, and GIS/IT systems.

# 5. Water Conservation Plan

## 5.1 Declaration of Policy, Purpose, and Intent

Aqua is required by the State of Texas to adopt and implement a water conservation plan. In 2007, the 80th Texas Legislature amended Section 13.146 of the Texas Water Code to require each retail public utility that provides potable water service to 3,300 or more connections to submit a water conservation plan to the Texas Water Development Board (TWDB). The initial plans were due on May 1, 2009. The Texas Water Code also requires the utility to report annually on the progress of the program and also review /update the plan once every five years. This plan supersedes the Aqua Water Conservation Plan of 2014.

## 5.2 Water Conservation Plan Goals and Objectives

In accordance with the TAC Title 31 Part 10, Chapter 363, Subchapter A, Division 2, Rule §363.15 (B), Aqua established five and ten year goals for water savings (See Exhibit C). These goals are specific and quantifiable and include goals for water loss programs in gallons per capita per day and goals for municipal use and residential use in gallons per capita per day.

Potential population growth and infrastructure improvements will be factored into the measurement of the effectiveness of these goals.

1. Reduce the water consumption from the levels that would prevail without conservation efforts.
2. Reduce the loss and waste of water
3. Improve the efficiency in the use of water.

### 5.2.1 Five Year Target for Water Savings

1. Reduce Total GPCD, 122 gal., consumption by 2%; to 119 GPCD.
2. Reduce the Residential GPCD, 78 by 2% , to 76 GPCD.
3. Water loss GPCD to be lowered by 3%, from 28 gpcd.to 27 GPCD.
4. Water loss to be reduced by 6 % resulting in 21.15% loss.

### 5.2.2 Ten Year Target for Water Savings

1. Reduce Total GPCD, 119 GPCD by additional 3%, resulting in 115 GPCD.
2. Reduce the Residential GPCD, 76 by 3% , to 73 GPCD.
3. Water loss GPCD to be lowered by an additional 4%, resulting in 26 GPCD.
4. Water loss to be reduced by an additional 4%, resulting in 20% loss.

### 5.2.3 Methods for Water Savings Goal Implementation:

1. Monitor operational flushing.
2. Control of unaccounted for water:
    - Maintain accurate maps within GIS which reflect water loss due to leaks, plant maintenance.
    - Monitored the distribution system through Aqua's SCADA.
    - All wells are metered and the meters are tested annually for accuracy.
    - Monthly water loss report consists of water loss accounting for the transmission lines and distribution system which aids in controlling water loss.
3. Leak detection program:
    - Daily visual inspections along distribution lines
    - Monitor SCADA for changes in tank levels and pump run times.

- Work order system
    a. Mobile work order system sends leak information directly to Field Personnel
    b. All leak work orders are prioritized.
    c. Time taken to close leak work orders is managed monthly.

4. Notify customers when leaks are on the customer supply line.
5. Utilize 811 to reduce leaks.
6. Universal metering:
    - Production meters measure all water diverted from the source of supply.
    - Aqua meters 100% of the connections to the distribution system.
    - All meters are within an accuracy of plus or minus 5.0%.
    - Meter replacement/ Meter testing, maintain accurate metering devices:
        a. Residential meters are replaced at 2 million gallons of usage.
        b. Large and compound meters are on a testing schedule.
7. Record management system will track annual water use and provide information used to evaluate the implementation of conservation measures. Water sales are grouped into user classes: single-family residential, commercial, institutional, and industrial. Monthly and annual data of water pumped, water deliveries, and water losses are used to develop a monthly water loss report and an annual water audit for the distribution system.
    - Electronic meter system software is integrated with the utility customer information system. (CIS).
    - Monthly electronic meter reports are generated and used to detect illegal connections, abandon services, inaccuracies in billing, and meters in need of replacement.
    - CIS provides functions such as customer support, account management, billing, and collections.
    - Account usage adjustments are tracked and reflected in unaccounted water loss.

### 5.2.4 Measurement of Progress

Utilize the Municipal Conservation Planning Tool and The Alliance for Water Efficiency Conservation Tracking Tool, which provide a standardized methodology for water savings and benefit-cost accounting and a library of pre-defined conservation activities, will be used to:

1. Develop long range conservation plans and goals.
2. Track over time water savings, costs, and benefits of specific conservation measures.
3. Compare conservation measures for water savings, impact on costs, and potential benefits to the membership.

## 5.3 Community Outreach and Public Education Program

The goals and objectives of this program is to raise awareness of water supply resources, water supply availability, treatment, and distribution issues. Information will be provided on efficient use of the water supply, methods to reduce wasteful water use practices, and how conservation is important for managing the water for everyone's future.

### 5.3.1 Communication Plan Implementation:

1. Presentations to community and civic organizations, businesses, and HOAs.
2. Water Efficiency classes at Aqua W.S.C.
3. Public Information program utilizing social media.

4. Billing inserts for specific water conservation events.
5. Quarterly Newsletter highlighting seasonal water conservation, new technology, and water industry issues and current events.
6. Facility tours
7. Event Posters and counter handouts in the Customer Service area.
8. Participation in local events to allow Aqua to have one-on-one contact with members about conservation.
9. Aqua website:
   - Drought status and present level of water restrictions
   - Seasonal messaging
   - EPA Water Sense program materials promoting water efficiency
   - Best Management Practices for indoor and outdoor water usage

### 5.3.2 Measurement of Progress:

1. Number of activities and how many members attended each activity.
2. The schedule of activities and information related to promoting specific issues.
3. The number of public information materials that featured the conservation message and the method of distribution to the membership.

## 5.4 Landscape Conservation Program

### 5.4.1 Landscape Irrigation Audits

1. All audits are performed by a TX Licensed Irrigator and an EPA Certified Landscape Irrigation Auditor.
2. Site condition, system improvements, and a seasonal irrigation schedule are provided to the member. The schedule shows the water savings utilizing the new water efficient schedule.
3. Landscape Irrigation and plant material demonstration garden at the Aqua Main Office.
   - Develop a series of training programs for members on how to operate and maintain an efficient system in order to conserve water.
   - Demonstration landscapes exhibiting climate adapted plants, optimal irrigation practices, compare irrigation technologies, and the efficiency of different systems: micro-irrigation, rain water harvesting, soil moisture and flow sensors, and ET weather based controllers.
   - Show benefits of planning and design.
   - Proper maintenance of irrigation and plant materials.
   - Provide new members with information on water efficient irrigation and climate-appropriate landscape design.
4. Discount Rain Barrel Sales: At least once a year Aqua (in conjunction with TX A&M AgriLife and Bastrop County Master Gardeners) offers fifty gallon rain barrels at a discounted price.

### 5.4.2 Measurement of Progress for Landscape Conservation

1. Review water savings per irrigation audit and determine effectiveness of program.
2. Outdoor water savings measured as the difference between seasonal water uses from year to year. Effectiveness will take into consideration weather conditions.
3. Survey members utilizing the water audit to identify effectiveness of the program.
4. Number of classes and how many members attended each class.

## 5.5 School Conservation Program

Students of today (water users of tomorrow) need to be educated about efficient- water use practices, water sources, water availability, and the future of potable water. The target audience includes students, teachers, and public administrators (water use in buildings and athletic fields).

### 5.5.1 Texas A&M Environmental Sciences Summer Institute

Aqua Water annually participates in the Texas A&M Environmental Sciences Summer Institute. The Program promotes water conservation to school teachers in a daylong seminar. Lessons learned are taken back to the class room.

1. Five (5) presentations on water sources, physical properties of water, conservation, and civic issues.
2. Hands-on activities complement each section.

### 5.5.2 In-School Program

1. Presentations are adaptable to any grade level.
2. The presentations offer skills that meet the Texas education standards.
3. AWWA videos and materials are incorporated into presentations.
4. AgriLIFE Extension youth education materials: a series of hands-on activities stressing the importance of water management and conservation.
5. In collaboration with the city of Bastrop Aqua is sponsoring the educational program developed by Resource Action Programs.

### 5.5.3 Measurement of Progress

1. The number of presentations and the number of students in attendance.
2. The schools and grade levels that participate.
3. The community involvement with presentations, programs, and events. Which groups are involved and to what extent is their involvement.

## 5.6 Aqua Water Supply Water Rate Structure

Aqua will use non-promotional cost based water rates which do not encourage excessive use of water. Aqua states and establishes water service rates in the Aqua Water Service Tariff.

### 5.6.1 Standard Service

The monthly charge for Standard Service is the sum of the Monthly Customer Charge and the Usage Charge. The Usage Charge is applicable to all water that flows through the meter during the monthly billing period.

| Meter Type And Size | Monthly Customer Charge | Gallons Included | Usage Charge per 1,000 Gallons - 1 to 10,000 - | Usage Charge per 1,000 Gallons - 10,001 to 20,000 - | Usage Charge per 1,000 Gallons - Over 20,001 - |
|---|---|---|---|---|---|
| 5/8" Simple | $25.15 | -0- | $3.75 | $5.75 | $7.00 |
| 3/4" Simple | $25.15 | -0- | $3.75 | $5.75 | $7.00 |
| 1" Simple | $25.15 | -0- | $3.75 | $5.75 | $7.00 |

### 5.6.2 Large Volume Service

The monthly charge for Large Volume Service is the sum of the Monthly Customer Charge and the Usage Charge. The Usage Charge is applicable to all water that flows through the meter during the monthly billing period.

| Meter Type And Size | Monthly Customer Charge | Gallons Included | Usage Charge per 1,000 Gallons |
|---|---|---|---|
| 1-1/2" | $125.00 | -0- | $5.00 |
| 2" | $245.00 | -0- | $5.00 |
| 3" | $570.00 | -0- | $5.00 |
| 4" | $1,160.00 | -0- | $5.00 |
| 6" | $3,160.00 | -0- | $5.00 |
| 8" | $5,190.00 | -0- | $5.00 |

## 6. References

| | |
|---|---|
| PL001 | Water Service Tariff |
| Section 11.1272 | Texas Water Code |
| Rule §288.20 | Title 30, Texas Administrative Code, Part 1, Chapter 288, Subchapter B |
| Division 1, Rule §295.9 | Title 30, Texas Administrative Code, Part 1, Chapter 295, Subchapter A |
| AWWA Manual | Water Conservation for Small and Medium Sized Utilities, (2010), 28-31 |

## 7. Revisions

| Rev. | Description | Author | Effective Date |
|---|---|---|---|
| A | Initial release of Policy | Unknown | 04-07-2014 |
| | | | |
| | | | |
| | | | |
| | | | |

# Exhibit A: Water Conservation Utility Profile

TWDB – 1965

The utility profile includes the water sales and use for the following classifications: residential, commercial, institutional, industrial, agricultural, and wholesale.

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## CONTACT INFORMATION

Name of Utility: Aqua WSC

Public Water Supply Identification Number (PWS ID): TX0110013

Certificate of Convenience and Necessity (CCN) Number: 10294

Surface Water Right ID Number:

Wastewater ID Number: 20962

Contact: First Name: Chuck Last Name: Kellogg

Title: Conservation Manager

Address: 415 Old Austin Hwy City: Bastrop State: TX

Zip Code: 78602 Zip+4: Email: ckellogg@aquawsc.com

Telephone Number: 5125813456 Date:

Is this person the designated Conservation Coordinator? (•) Yes ( ) No

Regional Water Planning Group: K

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

### A. Population and Service Area Data

1. Current service area size in square miles: 953

Attached file(s):

| File Name | File Description |
|---|---|
| Aqua CCN 2019.pdf | |

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. 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 Water Service |
|---|---|---|---|
| 2018 | 64,002 | 0 | |
| 2017 | 69,046 | 0 | |
| 2016 | 61,051 | 4,200 | |
| 2015 | 58,683 | 0 | |
| 2014 | 55,824 | 0 | |

3. 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 Water Service |
|---|---|---|---|
| 2020 | 69,892 | 0 | |
| 2030 | 108,538 | 0 | |
| 2040 | 168,556 | 0 | |
| 2050 | 261,762 | 0 | |
| 2060 | 406,508 | 0 | |

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

US Census Bureau
City-Data.com

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## B. System Input

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 | 3,016,260,316 | 0 | 166,904,898 | 2,849,355,418 | 122 |
| 2017 | 2,934,430,467 | 0 | 154,901,633 | 2,779,528,834 | 110 |
| 2016 | 2,642,728,550 | 0 | 153,392,360 | 2,489,336,190 | 112 |
| 2015 | 2,641,795,366 | 0 | 107,517,253 | 2,534,278,113 | 118 |
| 2014 | 2,352,791,428 | 0 | 88,008,918 | 2,264,782,510 | 111 |
| Historic Average | 2,717,601,225 | 0 | 134,145,012 | 2,583,456,213 | 115 |

## C. Water Supply System

Attached file(s):

| File Name | File Description |
|---|---|
| Aqua Water Distribution Assets.docx | |

1. Designed daily capacity of system in gallons: 24,361,920

2. Storage Capacity

   2a. Elevated storage in gallons: 6,925,000

   2b. Ground storage in gallons: 7,611,800

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## D. Projected Demands

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

| Year | Population | Water Demand (gallons) |
|---|---|---|
| 2020 | 69,892 | 2,736,456,655 |
| 2021 | 73,035 | 2,859,597,204 |
| 2022 | 76,322 | 2,988,279,079 |
| 2023 | 79,756 | 3,122,751,637 |
| 2024 | 83,345 | 3,263,275,460 |
| 2025 | 87,096 | 3,410,122,856 |
| 2026 | 91,015 | 3,563,578,385 |
| 2027 | 95,111 | 3,723,939,412 |
| 2028 | 99,391 | 3,891,516,686 |
| 2029 | 103,864 | 4,066,634,936 |

2. Description of source data and how projected water demands were determined.

US Census Data

Each year was increased by 4.5%

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## E. High Volume Customers

1. The annual water use for the five highest volume **RETAIL customers.**

| Customer | Water Use Category | Annual Water Use | Treated or Raw |
|---|---|---|---|
| Department of Justice | Institutional | 88,426,000 | Treated |
| Travis County Mud 14 | Residential | 50,608,000 | Treated |
| Bastrop Resort Partners, LP | Commercial | 41,780,620 | Treated |
| MD Anderson Vetinary Division | Commercial | 29,421,000 | Treated |
| The Colony Mud 1E | Residential | 18,699,200 | Treated |

2. The annual water use for the five highest volume **WHOLESALE customers.**

| Customer | Water Use Category | Annual Water Use | Treated or Raw |
|---|---|---|---|
| Travis County Mud #14 | Municipal | 50,998,000 | Treated |
| Creed-Moore Maha | Municipal | 30,178,000 | Treated |
| The Colony Mud #1 | Municipal | 18,699,200 | Treated |
| Bastrop County Mud #1 | Municipal | 17,445,500 | Treated |

## F. Utility Data Comment Section

Additional comments about utility data.

Data is from the AQUA CIS

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## Section II: System Data

### A. Retail Water Supplier Connections

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

| Water Use Category Type | Total Retail Connections (Active + Inactive) | Percent of Total Connections |
|---|---|---|
| Residential - Single Family | 20,425 | 98.69 % |
| Residential - Multi-Family | 0 | 0.00 % |
| Industrial | 2 | 0.01 % |
| Commercial | 138 | 0.67 % |
| Institutional | 132 | 0.64 % |
| Agricultural | 0 | 0.00 % |
| Total | 20,697 | 100.00 % |

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

| | Net Number of New Retail Connections | | | | | | |
|---|---|---|---|---|---|---|---|
| Year | Residential - Single Family | Residential - Multi-Family | Industrial | Commercial | Institutional | Agricultural | Total |
| 2018 | 514 | | | | | | 514 |
| 2017 | 516 | | | | | | 516 |
| 2016 | 536 | | | | | | 536 |
| 2015 | 509 | | | | | | 509 |
| 2014 | 431 | | | | | | 431 |

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## B. Accounting Data

The previous five years' gallons of RETAIL water provided in each major water use category.

| Year | Residential - Single Family | Residential - Multi-Family | Industrial | Commercial | Institutional | Agricultural | Total |
|---|---|---|---|---|---|---|---|
| 2018 | 1,777,108,183 | 0 | 71,676,960 | 268,366,400 | 1,969,484 | 0 | 2,119,121,027 |
| 2017 | 1,760,875,729 | 0 | 28,248,830 | 272,953,380 | 56,223,030 | 0 | 2,118,300,969 |
| 2016 | 1,590,954,833 | 0 | 39,628,020 | 37,182,690 | 62,340,110 | 4,713,000 | 1,734,818,653 |
| 2015 | 1,424,327,311 | 0 | 26,433,678 | 282,491,392 | 36,810,423 | 4,178,710 | 1,774,241,514 |
| 2014 | 1,695,324,010 | 0 | 30,336,089 | 10,907,681 | 13,824,144 | 6,148,830 | 1,756,540,754 |

## C. Residential Water Use

The previous five years residential GPCD for single family and multi-family units.

| Year | Residential - Single Family | Residential - Multi-Family | Total Residential |
|---|---|---|---|
| 2018 | 1,777,108,183 | | 78 |
| 2017 | 1,760,875,729 | | 70 |
| 2016 | 1,590,954,833 | | 71 |
| 2015 | 1,424,327,311 | | 66 |
| 2014 | 1,695,324,010 | | 84 |
| Historic Average | 1,649,718,013 | 0 | 74 |

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## D. Annual and Seasonal Water Use

1. The previous five years' gallons of treated water provided to RETAIL customers.

| Month | Total Gallons of Treated Water | | | | |
|---|---|---|---|---|---|
| | 2018 | 2017 | 2016 | 2015 | 2014 |
| January | 151,048,105 | 148,926,262 | 134,415,490 | 132,612,587 | 137,978,136 |
| February | 155,766,314 | 120,216,575 | 110,808,775 | 116,769,018 | 130,726,867 |
| March | 124,952,297 | 119,499,513 | 124,850,517 | 108,463,726 | 118,459,608 |
| April | 156,643,469 | 139,137,102 | 141,016,182 | 131,599,721 | 133,377,055 |
| May | 146,873,020 | 138,690,764 | 130,822,917 | 127,933,873 | 159,709,592 |
| June | 205,943,222 | 231,174,306 | 140,554,473 | 131,411,724 | 169,154,521 |
| July | 225,606,350 | 220,936,339 | 186,316,538 | 166,818,544 | 179,175,210 |
| August | 255,695,820 | 286,973,615 | 221,864,973 | 238,320,136 | 208,271,903 |
| September | 279,574,400 | 228,282,689 | 190,754,483 | 236,119,820 | 208,271,903 |
| October | 142,387,575 | 173,039,548 | 167,603,389 | 205,675,490 | 149,843,354 |
| November | 145,561,266 | 154,033,484 | 173,397,440 | 184,290,220 | 157,502,096 |
| December | 136,837,582 | 156,087,559 | 140,044,914 | 118,446,881 | 115,765,303 |
| Total | 2,126,889,420 | 2,116,997,756 | 1,862,450,091 | 1,898,461,740 | 1,868,235,548 |

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. The previous five years' gallons of raw water provided to RETAIL customers.

| Month | Total Gallons of Raw Water | | | | |
|---|---|---|---|---|---|
| | 2018 | 2017 | 2016 | 2015 | 2014 |
| January | | | | | |
| February | | | | | |
| March | | | | | |
| April | | | | | |
| May | | | | | |
| June | | | | | |
| July | | | | | |
| August | | | | | |
| September | | | | | |
| October | | | | | |
| November | | | | | |
| December | | | | | |
| Total | | | | | |

3. Summary of seasonal and annual water use.

| | Summer RETAIL (Treated + Raw) | Total RETAIL (Treated + Raw) |
|---|---|---|
| 2018 | 687,245,392 | 2,126,889,420 |
| 2017 | 739,084,260 | 2,116,997,756 |
| 2016 | 548,735,984 | 1,862,450,091 |
| 2015 | 536,550,404 | 1,898,461,740 |
| 2014 | 556,601,634 | 1,868,235,548 |
| Average in Gallons | 613,643,534.80 | 1,974,606,911.00 |

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

## E. Water Loss

Water Loss data for the previous five years.

| Year | Total Water Loss in Gallons | Water Loss in GPCD | Water Loss as a Percentage |
|---|---|---|---|
| 2018 | 604,004,601 | 26 | 21.20 % |
| 2017 | 528,029,198 | 21 | 19.00 % |
| 2016 | 638,598,074 | 29 | 25.65 % |
| 2015 | 640,339,893 | 30 | 25.27 % |
| 2014 | 438,264,641 | 22 | 19.35 % |
| Average | 569,847,281 | 26 | 22.09 % |

## F. Peak Day Use

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) |
|---|---|---|---|
| 2018 | 5,827,094 | 7470058 | 1.2820 |
| 2017 | 5,799,993 | 8033524 | 1.3851 |
| 2016 | 5,102,602 | 5964521 | 1.1689 |
| 2015 | 5,201,265 | 5832069 | 1.1213 |
| 2014 | 5,118,453 | 6050017 | 1.1820 |

## G. Summary of Historic Water Use

| Water Use Category | Historic Average | Percent of Connections | Percent of Water Use |
|---|---|---|---|
| Residential - Single Family | 1,649,718,013 | 98.69 % | 86.80 % |
| Residential - Multi-Family | 0 | 0.00 % | 0.00 % |
| Industrial | 39,264,715 | 0.01 % | 2.07 % |
| Commercial | 174,380,308 | 0.67 % | 9.17 % |
| Institutional | 34,233,438 | 0.64 % | 1.80 % |
| Agricultural | 3,008,108 | 0.00 % | 0.16 % |

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

**H. System Data Comment Section**

## Section III: Wastewater System Data

**A. Wastewater System Data**

Attached file(s):

| File Name | File Description |
|---|---|
| Aqua Wastewater CCN.pdf | map of Aqua wastewater CCN |

1. Design capacity of wastewater treatment plant(s) in gallons per day: 125,000

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

| Water Use Category | Metered | Unmetered | Total Connections | Percent of Total Connections |
|---|---|---|---|---|
| Municipal | 421 | | 421 | 100.00 % |
| Industrial | | | 0 | 0.00 % |
| Commercial | | | 0 | 0.00 % |
| Institutional | | | 0 | 0.00 % |
| Agricultural | | | 0 | 0.00 % |
| Total | 421 | | 421 | 100.00 % |

3. Percentage of water serviced by the wastewater system: 2.00 %

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

4. Number of gallons of wastewater that was treated by the utility for the previous five years.

| Month | Total Gallons of Treated Water | | | | |
|---|---|---|---|---|---|
| | 2018 | 2017 | 2016 | 2015 | 2014 |
| January | 2,558,590 | 2,530,426 | 2,289,611 | 2,753,627 | 2,099,570 |
| February | 2,378,851 | 2,164,504 | 2,143,347 | 2,278,888 | 1,973,315 |
| March | 2,618,373 | 2,380,057 | 2,488,539 | 2,740,787 | 2,227,141 |
| April | 2,484,295 | 2,416,823 | 2,663,256 | 2,353,017 | 1,871,029 |
| May | 2,524,608 | 2,329,214 | 2,735,175 | 2,936,575 | 2,195,953 |
| June | 2,434,357 | 2,302,315 | 2,282,331 | 2,095,481 | 2,023,091 |
| July | 2,594,219 | 2,372,555 | | 2,080,764 | 2,112,246 |
| August | 2,768,787 | 2,691,481 | 2,546,121 | 2,084,704 | 2,131,443 |
| September | 3,378,202 | 2,462,538 | 2,100,887 | 2,087,736 | 2,095,074 |
| October | 3,618,961 | 2,358,337 | 2,111,643 | 2,343,800 | 2,116,226 |
| November | 3,039,059 | 2,257,353 | 2,009,609 | 2,292,614 | 2,411,450 |
| December | 2,988,847 | 2,442,284 | 2,359,486 | 2,281,887 | 2,240,741 |
| Total | 33,387,149 | 28,707,887 | 25,730,005 | 28,329,880 | 25,497,279 |

5. Could treated wastewater be substituted for potable water?

◯ Yes ◉ No

B. Reuse Data

1. Data by type 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 | 5,755,696 |
| Chlorination/de-chlorination | 1,438,924 |
| Industrial | |
| Landscape irrigation (park,golf courses) | |
| Agricultural | |
| Discharge to surface water | 7,194,620 |
| Evaporation Pond | |
| Other | |
| Total | 14,389,240 |

Texas Water Development Board

# UTILITY PROFILE FOR RETAIL WATER SUPPLIER

C. Wastewater System Data Comment

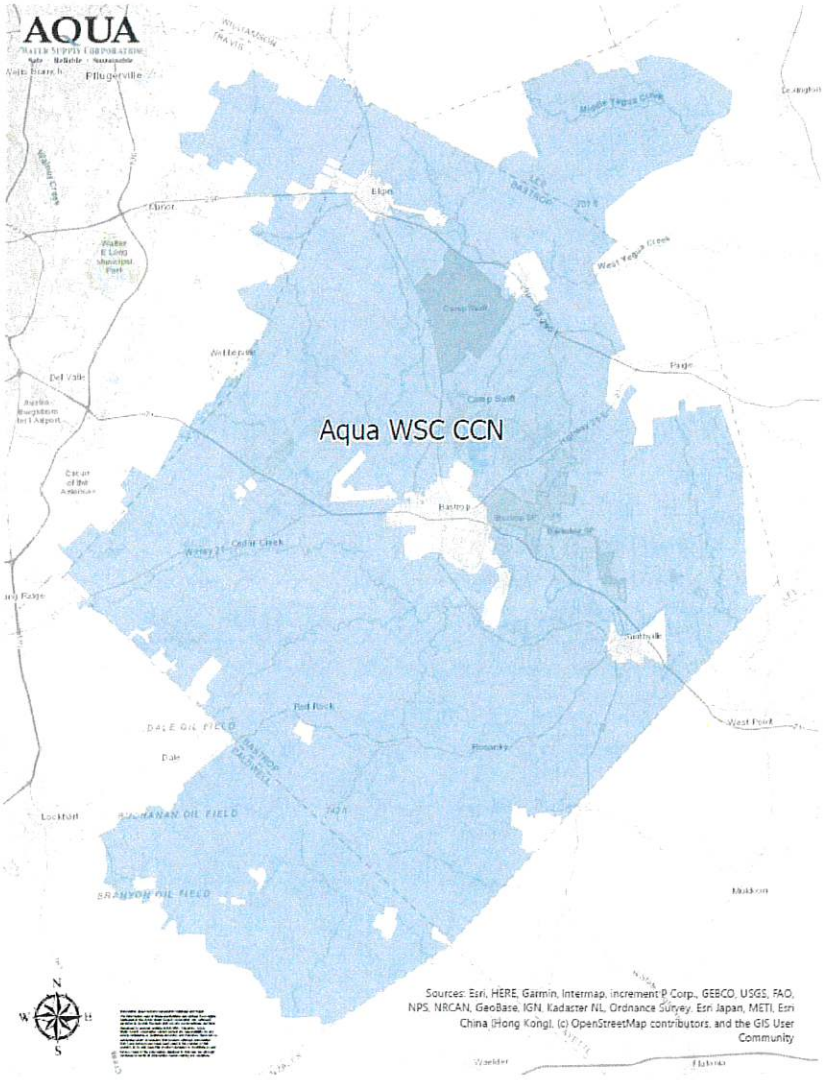
Additional comments and files to support or explain wastewater system data listed below.

# Exhibit B: Assets

## Distribution Assets

- 20,697 connections as of January, 2019
- 1,856.24 miles of pipe
- 29 water wells with 19,196 gallons-per-minute combined capacity
- 25 pump stations with 50,040 gallons-per-minute total capacity
- 20 pressure planes
- 6 Standpipes with 559,000 gallon capacity
- 22 ground storage tanks with a total capacity of 7,611,800 gallons
- 23 elevated storage tanks with a total capacity of 6,925,000 gallons
- 15,185,800 total gallons of storage

## Certificate of Convenience and Necessity (CCN)



## Exhibit C: 5- and 10-Year Goals for Water Savings

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

Facility Name: Aqua Water Supply Corporation

Water Conservation Plan Year: 2019

| | Historic 5yr Average | Baseline | 5-yr Goal for year 2024 | 10-yr Goal for year 2029 |
|---|---|---|---|---|
| Total GPCD[1] | 115 | 122 | 119 | 115 |
| Residential GPCD[2] | 74 | 78 | 76 | 73 |
| Water Loss (GPCD)[3] | 27 | 28 | 27 | 26 |
| Water Loss (Percentage)[4] | % | % | % | % |

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

# Exhibit D: Resolution Approving Water Conservation Plan

On Monday, April 8, 2019, the Aqua Water Supply Corporation Board of Directors approved the 2019 Water Conservation Plan in a meeting posted properly in accordance with the Texas open Meetings Act and with a quorum present and voting.

**RESOLUTION #19.04.01**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF AQUA WATER SUPPLY CORPORATION ADOPTING AN UPDATED WATER CONSERVATION PLAN**

WHEREAS, Aqua Water Supply Corporation ("Aqua") is a nonprofit water supply corporation, operating under the authority of Chapter 67 of the Texas Water Code and the holder of retail water Certificate of Convenience No. 10294 issued by the Texas Commission on Environmental Quality; and,

WHEREAS, Section 13.146 of the Texas Water Code and Chapter 288 of the Texas Administrative Code require retail public utilities who provide potable water service to 3,300 or more connections, such as Aqua, to adopt and update a water conservation plan every five years; and,

WHEREAS, Aqua adopted a water conservation plan in 2014 and needs to adopt an updated plan; and,

WHEREAS, Aqua has reviewed its water conservation plan and made the necessary revisions to update the plan; and,

WHEREAS, Aqua is required by Texas law to submit its updated water conservation plan to the Texas Commission on Environmental Quality ("TCEQ") and the Texas Water Development Board ("TWDB") by May 1, 2019.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF AQUA WATER SUPPLY CORPORATION THAT:

1. The above recitals are true and correct.
2. The Board of Directors of Aqua hereby adopts an updated Water Conservation Plan attached hereto as Exhibit A.
3. The Board of Directors of Aqua hereby authorizes its President, the Aqua staff, and legal counsel for Aqua to take all necessary steps to implement the updated Water Conservation Plan and provide all necessary submissions of the Plan.

PASSED AND APPROVED this the 8th day of April, 2019.

AQUA WATER SUPPLY CORPORATION

Cliff Kessler, President

ATTEST:

William F. Tomsu, Secretary/Treasurer

## Exhibit E: Transmittal Letter to Region K

AQUA
WATER SUPPLY CORPORATION
415 Old Austin Hwy.
Drawer P
Bastrop, TX 78602
512-303-3943
fax: 512-303-4881
www.aquawsc.com

April 9, 2019

Ms. Jaime Burke
AECOM
Region K Project Manager
400 W. 15th Street, Suite 500
Austin, TX 78701

Dear Ms. Burke,

Enclosed you will find the Aqua Water Supply Corporation (Aqua) 2019 Water Conservation Plan, which was approved by the Aqua Board of Directors at their April 8, 2019 meeting. A copy of the certification of the April Board meeting, whereby the Board members unanimously approved the plan, is included.

This plan fulfills the requirements of In accordance with the TAC Title 31 Part 10, Chapter 363, Subchapter A, Division 2, Rule §363.15 (B). Specifically, the plan addresses conservation goals and strategies for retail water and wholesale water use.

This plan replaces the water conservation components of the Aqua Water Conservation Plan that were approved by the Aqua Board of Directors in 2014.

Please contact me at 512-581-3456 for any further questions or comments regarding this plan.

Sincerely,

Chuck Kellogg
Conservation Manager

AQUA
WATER SUPPLY CORPORATION
Safe • Reliable • Sustainable

**COMPANY POLICY**

# Drought Contingency Plan

## Policy No. PL006

### Revision B, Effective 07-11-2022

## Aqua Water Supply Corporation

415 Old Austin Hwy., P. O. Drawer P, Bastrop, Texas, 78602, (512) 303-3943

Aqua Water Supply Corporation's Drought Contingency Plan for Aqua's Retail Water Certificate of Convenience and Necessity Number 10294.

# Contents

# 1. Purpose

To define a policy to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions within Aqua Water Supply Corporation's retail service area.

# 2. Application

This policy applies apply to all persons, customers, and property utilizing water provided by Aqua Water Supply Corporation. The terms "person" and "customer" as used in the Drought Contingency Plan include individuals, corporations, partnerships, associations, and all other legal entities.

# 3. Definition of Terms

## 3.1 Aesthetic Water Use

The use of water for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

## 3.2 Aqua

The Aqua Water Supply Corporation as represented by its Board of Directors.

## 3.3 Board of Directors or Board

The duly elected members of the Board of Directors of Aqua Water Supply Corporation.

## 3.4 Certificate of Convenience and Necessity (CCN)

A specified geographic area designated by the Public Utility Commission of Texas (PUC) in which the holder has the exclusive right to provide retail water service. Chapter 13 of the Texas Water Code requires a CCN holder to provide continuous and adequate service to the area within its CCN boundary.

## 3.5 Commercial and Institutional Water Use

The use of water integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants, and office buildings.

## 3.6 Conservation

Those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

## 3.7 Customer

Any person, company, or organization using water supplied by Aqua WSC.

## 3.8 Domestic Water Use

The use of water for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or cleaning a residence, business, industry, or institution.

## 3.9 Drought Contingency Plan

A strategy or combination of strategies for monitoring the progression of a drought and preparing a response to potential water supply shortages resulting from severe droughts or other water supply emergencies.

## 3.10 Dwelling, Dwelling Unit, or Residence

A home, house, mobile home, manufactured home, apartment unit, or any unit in a multiunit residential structure maintaining a restroom facility and area for preparation or storage of foods. A recreational vehicle that is not located in a recreational vehicle park shall be considered a dwelling under this Tariff if it is connected to an Aqua meter and is used for human habitation.

## 3.11 Engineering

A person or firm licensed by the State of Texas and contracted or employed by Aqua to provide engineering and/or engineering consulting services.

## 3.12 Essential Water Use

The use of water essential or required for the protection of the public's health, safety, and welfare, including livestock and pets.

## 3.13 Industrial Water Use

The use of water in processes designed to convert materials of lower value into forms having greater usability and value.

## 3.14 Landscape Irrigation Use

The use of water for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, and rights-of-way and medians.

## 3.15 Non-Essential Water Use

The use of water not essential nor required for the protection of the public's health, safety, and welfare, including, but not limited to:

a. The use of water to irrigate landscape areas including parks, athletic fields, and golf courses except as otherwise provided;

b. The use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;

c. The use of water to wash down sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;

d. The use of water to wash down buildings or structures for purposes other than immediate fire protection;

e. The use of water to flush gutters or permitting water to run or accumulate in any gutter or street;

f. The use of water to fill, refill, or add to any indoor or outdoor swimming pools or jacuzzi-type pools;

g. The use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;

h. The failure to repair a controllable leak(s) within a reasonable period after receiving notice directing the repair of such leak(s); and

i. The use of water from hydrants for construction purposes or any purpose other than fire-fighting.

## 3.16 Production and Storage Facilities

The equipment, structures, and appurtenances necessary to produce, treat, and store water from groundwater or surface water sources for delivery to General Purpose Transmission Facilities.

## 3.17 Supervisory Control and Data acquisition System or SCADA

A system of software and hardware elements providing control of processes locally or at remote locations including monitoring, gathering, and processing real-time data, directly interacting with devices such as sensors, valves, pumps, motors, and more through human-machine interface software, and recording events into a log file.

## 3.18 Service Area

That area to which Aqua may lawfully provide water service, whether within or outside the area described by the Certificate of Convenience and Necessity (CCN) held by Aqua.

# 4. Responsibilities

## 4.1 Board of Directors

Creates a statement of mission and purpose articulating the goals, means, and the constituents to be served by Aqua. Sets goals and creates policies in support of this mission and provides direction, guidance, governance, and oversight to ensure Aqua is on track with regard to meeting its goals. The Board adopts a resolution approving a Drought Contingency Plan (Water Conservation Plan) and authorizing Aqua's General Manager to implement the Drought Contingency Plan.

## 4.2 General Manager

Executes the policies, plans, and directives of the Board of Directors to meet Aqua's goals as articulated in the mission. Assists the board in developing and disseminating policies and plans to the staff. Ensures the staff understands and executes planning directives and policies and brings staff ideas and/or concerns to the Board's attention. Implements the applicable provisions of the Drought Contingency Plan upon determination that implementing the plan is necessary to protect public health, safety, and welfare. The General Manager has the authority to initiate or terminate drought or other water supply emergency response measures as described in the Drought Contingency Plan.

## 4.3 Assistant General Manager

Executes the policies, plans, and directives of the Board and General Manager to meet Aqua's goals as articulated in the mission. Assists the General Manager in developing and disseminating policies and plans to the staff. Ensures the staff understands and executes planning directives and policies and brings staff ideas and/or concerns to the General Manager's attention.

## 4.4 Engineering Manager

Directs Engineering to plan, manage, direct, and coordinate engineering operations for water and wastewater treatment systems and facilities, capital improvement projects, right-of-way functions, SCADA systems, and GIS/IT systems.

# 5. Drought Contingency Plan

## 5.1 Declaration of Policy, Purpose, and Intent

The core policy, purpose, and intent of the Drought Contingency Plan is to conserve the available water supply and protect the integrity of water supply facilities with particular regard for domestic water use, sanitation, and fire protection. The Drought Contingency Plan's inherent purpose is to protect and preserve public health, safety, and welfare and minimize the adverse impacts of water supply shortages or other water supply emergency conditions. With this intent, Aqua Water Supply Corporation adopts the regulations and restrictions of this Drought Contingency Plan on the delivery and consumption of water.

The Drought Contingency Plan regulates or prohibits water uses considered to be non-essential and deems the continuation of such uses during times of water shortage or other emergency water supply conditions to constitute a waste of water. Continued use of non-essential water subjects the offender(s) to penalties as defined in the **Enforcement** section of this policy.

## 5.2 Public Involvement

Aqua provided opportunity for the public to provide input into the preparation of the Drought Contingency Plan in the *Aqua Member Newsletter*, with an insert included in Aqua's utility bills, and on the Aqua website, www.aquawsc.com. The newsletter, insert, and the website described the reasons and methodology for the development of the Drought Contingency Plan, directions for obtaining a copy of the draft plan, the period for public comment and input on plan development, and contact information to deliver comments and request additional information.

## 5.3 Public Education

Aqua WSC will periodically provide the public with information about the Drought Contingency Plan in the *Aqua Member Newsletter* as well as on Aqua's website, www.aquawsc.com. The provided information will describe the conditions under which Aqua initiates or terminates each stage of the Drought Contingency Plan and the drought response measures to be implemented in each stage. Aqua may release additional information concerning the Drought Contingency Plan in press releases in the following newspapers:

- Bastrop Advertiser
- Elgin Courier
- Fayette County Record
- Lockhart Post Register
- Luling Newsboy & Signal
- Smithville Times
- The Giddings Times and News

## 5.4 Coordination with Regional Water Planning Groups

Aqua Water Supply Corporation is located within the Region K Water Planning area. Aqua has provided a copy of the Drought Contingency Plan to the Region K Planning Group.

# 6. Triggering Criteria for Drought Response Stages

Aqua will monitor water supply and/or demand conditions on a daily basis to determine if and when conditions warrant initiation or termination of each stage of the Drought Contingency Plan. When Aqua determines conditions exist to initiate or terminate a drought response stage, Aqua will provide reasonable notice, including, by way of example and without limitation, notices published in local newspapers, announcements on applicable radio and television stations, posting on Aqua's website and Facebook page, and by posting notices in public buildings. Aqua will provide notice of the proposed implementation of a drought response stage 24 hours before officially initiating the response stage. Published notice may be followed by a mailed notice included in the next regular bill. All notices will contain the following information:

- The implementation date when Aqua will begin the drought response stage;
- An explanation of the measures Aqua will implement during the response stage; and
- An explanation of penalties for violations.

The Drought Contingency Plan is oriented toward alleviating stress on water storage and distribution facilities during peak demand periods. Provision is also made for response to emergency conditions resulting from the failure of key water system facilities and water supply contamination. Aqua based the provided triggering criteria on known system capacity limits. In the future, Aqua will revisit and possibly revise triggering criteria as historical operational information from the SCADA System becomes available.

## 6.1 Stage 1 – Mild Water Rationing Conditions

### 6.1.1 Requirements for Initiation

Aqua will request customers to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses, as defined under **Non-Essential Water Use**, on occurrence of any of the following triggering conditions:

| Critical Storage Tank | STAGE I Triggering Conditions | |
|---|---|---|
| 2430 Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| Blue Standpipe | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| Bohls Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 5 feet less than the maximum level.* |
| Camp Swift Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| County Line Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Delhi Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| Elgin East Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Flag Hill Standpipe | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| Highview Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| HT Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Highway 71 Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Lotman Standpipe | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Nuse Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 5 feet less than the maximum level.* |
| OH Standpipe | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Red Rock Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Rocky Hill Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Texas Hill Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |

* Measure tank levels two (2) hours after peak in order to represent tank recovery.

### 6.1.2 Requirements for Termination

Aqua may rescind Stage 1 of the Drought Contingency Plan when all of the conditions listed as triggering events have ceased to exist for a period of seven (7) consecutive days

## 6.2 Stage 2 – Moderate Water Shortage Conditions

### 6.2.1 Requirements for Initiation

Aqua will require customers to comply with the requirements and restrictions on certain water uses, as defined under **Non-Essential Water Use**, for Stage 2 of the Drought Contingency Plan on occurrence of any of the following triggering conditions:

| Critical Storage Tank | STAGE 2 Triggering Conditions | |
|---|---|---|
| 2430 Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 18 feet less than the maximum level.* |
| Blue Standpipe | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 30 feet less than the maximum level.* |
| Bohls Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| Camp Swift Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 18 feet less than the maximum level.* |
| County Line Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 20 feet less than the maximum level.* |
| Delhi Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 12 feet less than the maximum level.* |
| Elgin East Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| Flag Hill Standpipe | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 20 feet less than the maximum level.* |
| Highview Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 20 feet less than the maximum level.* |
| HT Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 18 feet less than the maximum level.* |
| Highway 71 Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 20 feet less than the maximum level.* |
| Lotman Standpipe | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 20 feet less than the maximum level.* |
| Nuse Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 10 feet less than the maximum level.* |
| OH Standpipe | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 20 feet less than the maximum level.* |
| Red Rock Elevated Storage | Declining tank level is observed for two (2) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| Rocky Hill Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 15 feet less than the maximum level.* |
| Texas Hill Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 20 feet less than the maximum level.* |
| Watts Elevated Storage | Declining tank level is observed for three (3) consecutive days.* | Tank water level is more than 16 feet less than the maximum level.* |

* Measure tank levels two (2) hours after peak in order to represent tank recovery.

### 6.2.2 Requirements for Termination

Aqua may rescind Stage 2 of the Drought Contingency Plan when all of the conditions listed as triggering events have ceased to exist for a period of seven (7) consecutive days. Upon termination of Stage 2, Stage 1 becomes operative.

## 6.3 Stage 3 – Severe Water Shortage Conditions

### 6.3.1 Requirements for Initiation

Aqua will require customers to comply with the requirements and restrictions on certain water uses, as defined under **Non-Essential Water Use**, for Stage 3 of the Drought Contingency Plan when any of the Stage 2 triggering conditions exist for a period in excess of ten (10) consecutive days.

### 6.3.2 Requirements for Termination

Aqua may rescind Stage 3 of the Drought Contingency Plan when all of the conditions listed as triggering events have ceased to exist for a period of seven (7) consecutive days. Upon termination of Stage 3, Stage 2 becomes operative.

## 6.4 Stage 4 – Emergency Water Shortage Conditions

### 6.4.1 Requirements for Initiation

Aqua will require customers to comply with the requirements and restrictions on certain water uses, as defined under **Non-Essential Water Use**, for Stage 4 of the Drought Contingency Plan when the General Manager, or designee, determines that a water supply emergency exists based on:

- The occurrence of major water line breaks or pump or system failures which cause an unprecedented loss of capability to provide water service; or
- Natural or man-made contamination of the water supply source(s).
- Other natural or man-made causes.

### 6.4.2 Requirements for Termination

Aqua may rescind Stage 4 of the Drought Contingency Plan when all of the conditions listed as triggering events have ceased to exist for a period of seven (7) consecutive days.

# 7. Drought Response Stages

Aqua will monitor water supply and/or demand conditions on a daily basis and, in accordance with the triggering criteria set forth in the **Triggering Criteria for Drought Response Stages** section of this policy, will determine if a mild, moderate, or emergency condition exists. If Aqua determines a drought response stage to be necessary, will implement the notification procedures described in the **Triggering Criteria for Drought Response Stages** section of this policy.

Because of Aqua's sizable retail water service area and the large number of pressure zones within the water distribution system, Aqua will initiate drought response stages in designated sub-areas of the water system. Aqua's intent is to allow targeted implementation of drought response measures in areas where such measures are necessary, thereby minimizing the number of Aqua customers impacted by the drought response requirements and restrictions.

## 7.1 Stage 1 – Mild Shortage Conditions

### 7.1.1 Goal

Achieve a 10% voluntary reduction in daily water demand sufficient to stabilize water levels in key water storage tanks at safe operating levels.

### 7.1.2 Voluntary Water Use Restrictions

Aqua will request water customers to voluntarily limit the irrigation of landscaped areas to the watering schedule. The request and drought response condition will remain consecutive as each new month begins. For customers having rural delivery numbers, use the last numerical digit of the delivery number, whether route or box, to determine landscape watering days.

### 7.1.3 Aqua WSC Landscape Watering Schedule

- Monday and Thursday: Even last number of address
- Tuesday and Friday: Odd last number of address
- Restricted Outdoor Watering Hours – Should only water outdoors before 10:00 a.m. and after 7:00 p.m. on the appropriate watering day.
- Restricted Outdoor Watering Volume – Water no more than one (1) inch on the appropriate watering day.

## 7.2 Stage 2 – Moderate Water Shortage Conditions

### 7.2.1 Goal

Achieve a 15% reduction in daily water demand sufficient to stabilize water levels in key water storage tanks at safe operating levels.

### 7.2.2 Supply Management Measures

a. Aqua WSC will shut off all fire hydrant meters utilized for non-essential water use.

b. Aqua WSC will discontinue flushing of water mains except where necessary for public health and safety.

### 7.2.3 Aqua WSC Landscape Watering Schedule

- Monday and Thursday: Even last number of address
- Tuesday and Friday: Odd last number of address

### 7.2.4 Water Use Restrictions.

Under threat of penalty for violation, Aqua will apply the following water use restrictions to all persons:

a. Use of water for irrigation of landscape areas is limited to designated watering days between the hours of midnight and 10:00 a.m. and between 8:00 p.m. and midnight. You may only water with a hand-held hose, hand-held bucket, by drip irrigation, or with a permanently automatic sprinkler system. Watering with hose-end sprinklers is prohibited at all times.

Landscape watering is restricted to weekdays only. Landscape watering is not permitted on Saturdays, Sundays, or official Federal holidays.

b. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle is prohibited except on designated watering days between the hours of midnight and 10:00 a.m. and between 8:00 p.m. and midnight. When allowed, you must wash with a hand-held bucket or a hand-held hose equipped with a positive shut-off nozzle for quick rinses. You may wash a vehicle at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public are contingent upon frequent cleansing such as garbage trucks and vehicles used to transport food and perishables.

c. Use of water to fill, refill, or add to any indoor or outdoor swimming pool, wading pool, or jacuzzi-type pool is prohibited except on designated watering days between the hours of midnight and 10:00 a.m. and between 8 p.m. and midnight.

d. Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

e. Use of water from hydrants is limited to firefighting and related activities or other activities necessary to maintain public health, safety, and welfare except you may be allowed the use of water from designated fire hydrants for construction purposes under special permit from Aqua.

f. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by Aqua WSC.

g. All restaurants are prohibited from serving water to patrons except when requested.

h. The following uses of water are defined as non-essential and are prohibited:

(1) Use of water to wash sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;

(2) Use of water to wash buildings or structures for purposes other than immediate fire protection;

(3) use of water for dust control;

(4) Use of water to flush gutters or permitting water to run or accumulate in any gutter or street; and

(5) Failure to repair a controllable leak(s) within a reasonable period after receiving notice directing the repair of such leak(s).

## 7.3 Stage 3 – Severe Rationing Conditions

### 7.3.1 Goal

Achieve a minimum of 20% reduction in daily water demand sufficient to meet basic water needs for public health and safety.

### 7.3.2 Water Use Restrictions

All requirements of Stage 2 will remain in effect during Stage 3 with these exceptions:

a. Irrigation of landscaped areas is absolutely prohibited.

b. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle is absolutely prohibited.

c. Use of water to fill, refill, or add to any indoor or outdoor swimming pool, wading pool, or jacuzzi-type pool is absolutely prohibited.

d. Operation of any ornamental fountain or pond for aesthetic or scenic purposes is absolutely prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

e. Aqua will not allow or approve applications for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind.

### 7.4 Stage 4 – Emergency Water Shortage Conditions

#### 7.4.1 Goal

Achieve a minimum of 25% reduction in daily water demand sufficient to meet basic water needs for public health and safety.

#### 7.4.2 Water Use Restrictions

All outdoor water usage is prohibited with the exception that water use for livestock is exempt from this prohibition. Aqua will limit total consumption to each member using one of the following methods:

- A limit that is a fixed percentage of average use by all members in the prior month. Aqua will uniformly apply the percentage on a system wide basis and notify each member of this percentage amount; or
- A limit that is a maximum number of gallons per meter (member) per week. Aqua will notify each member of this number.

Aqua will read all meters as often as necessary to insure compliance with this program for the benefit of all the members.

## 8. Enforcement

No person will knowingly or intentionally allow the use of water from Aqua's System for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of the Drought Contingency Plan. In addition, no person will knowingly or intentionally allow the use of water from Aqua's System in an amount in excess of that permitted by the drought response stage in effect at the time as directed by the General Manager in accordance with provisions of the Drought Contingency Plan. Aqua will take enforcement actions for violations of the drought stage restrictions or provisions of the Drought Contingency Plan.

### 8.1 First violation

Aqua may install a flow restrictor in the water line to limit the amount of water which is allowed to pass through the meter in a 24-hour period. Aqua will charge the installation cost of the flow restrictor to the member's account. The cost is $100 for 5/8", 3/4", and 1" meters. Aqua will determine the cost for larger meters on a case-by-case basis.

### 8.2 Subsequent violations

Aqua may terminate water service at the meter for a period of seven (7) days or until the end of the calendar month, whichever is less and will charge a reconnect fee as stated in Aqua's Water Service Tariff for restoration of service.

## 9. Adoption of Drought Contingency Plan

All contracts with Aqua for resale of water require the acceptance and implementation of Aqua's Drought Contingency Plan. In case of a shortage of water resulting from drought, Aqua will divide and distribute the water in accordance with Texas Water Code §11.039.

## 10. Variances

The General Manager, or designee, may grant a written temporary variance for existing water uses otherwise prohibited under the Drought Contingency Plan. If the General Manager determines that failure to grant a variance would result in an emergency condition adversely affecting the health, sanitation, or fire protection for the public or the person requesting such variance, and if the request satisfies one or more of the following conditions:

- Compliance with the Drought Contingency Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Drought Contingency Plan is in effect.
- Implementation of alternative methods can achieve the same level of water use reduction.

Persons desiring an exemption from the provisions of the Drought Contingency Plan must file a request for variance with the Aqua WSC within five (5) days after enactment of the Drought Contingency Plan or a particular drought response stage. The General Manager will review all petitions for variance. Petitions for variance must include the following:

a. Name and address of the petitioner(s).

b. Purpose of water use.

c. Specific provisions(s) of the Drought Contingency Plan from which the petitioner is requesting relief.

d. Detailed statement as to how the specific provision of the Drought Contingency Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this provision.

e. Description of the relief requested.

f. Period of time for which the variance is sought.

g. Alternative water use restrictions or other measures the petitioner is taking or proposes to take to meet the intent of the Drought Contingency Plan and the compliance date.

h. Any other pertinent information.

Variances granted to petitioners by Aqua will be subjected to the following conditions unless waived or modified by the General Manager:

- Variances granted by Aqua will include a timetable for compliance.
- Variances granted by Aqua will expire when the Drought Contingency Plan is no longer in effect unless the petitioner has failed to meet specified requirements.

Variances will not be retroactive or otherwise justify any violation of the Drought Contingency Plan occurring prior to the issuance of the variance.

## 11. Severability

It is the intention of the Board of Directors of the Aqua Water Supply Corporation that the sections, paragraphs, sentences, clauses, and phrases of this Drought Contingency Plan are severable. If the valid judgment or decree of any court of competent jurisdiction declares any phrase, clause, sentence, paragraph, or section of the Drought Contingency Plan to be unlawful, unconstitutional, or invalid, this judgment or decree will not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this Drought Contingency Plan.

## 12. References

| | |
|---|---|
| PL001 | Water Service Tariff |
| Section 11.1272 | Texas Water Code |
| Rule §288.20 | Title 30, Texas Administrative Code, Part 1, Chapter 288, Subchapter B |
| Division 1, Rule §295.9 | Title 30, Texas Administrative Code, Part 1, Chapter 295, Subchapter A |

## 13. Revisions

| Rev. | Description | Author | Effective Date |
|---|---|---|---|
| A | Initial release of Policy | Unknown | 04-07-2014 |
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