

# **Tom Green County Fresh Water Supply District #2 Water Conservation and Drought Contingency Plan 2020-2025**

## **Water Conservation Plan**

### **1. Introduction**

The Tom Green County Fresh Water Supply District #2 (District) provides water service to the unincorporated community of Christoval, Texas. The District currently receives its water from three water wells located in City Park in Christoval. The Texas Commission on Environmental Quality (TCEQ) has determined that this source water is groundwater under the influence of surface water and the District has constructed a water treatment plant to meet TCEQ requirements. The District has a 243,000 gallon clear well and booster pump system that supplies a 50,000 gallon elevated storage tank. This elevated storage tank provides pressure maintenance for the entire system. The District's water wells are shallow and are subject to fluctuations based on river flows in the South Concho River. The District Board of Directors has expressed concern over customer usage and its desire to reduce unaccounted for water use to protect and extend its available water resources as well as meeting Texas Water Development Board (TWDB) and TCEQ requirements for a water conservation and drought contingency plan.

### **2. Water Usage and Customer Counts**

There is a lack of reliable water pumped and used prior to 2017. This is because of faulty meter readings. For this reason, base date will be for the years 2018, and part of 2019.

<b>Year</b>	<b>Population Estimate</b>	<b>Raw Water Pumped (MGD)</b>	<b>Water Treated (MGD)</b>	<b>Per Capita Use</b>
2018	433	27.027	26.534	168

### **3. Water Conservation Goals**

The purpose of this water conservation plan is to serve as a guide for the District in managing their water resources and comply with both the Texas Commission on Environmental Quality (TCEQ) and Texas Water Development Board (TWDB) requirements.

Specific Goals include:

- Long-term reductions in water demands or 5% per capita over the next 5 years and a 7% reduction over the next 10 years.
- Reductions in seasonal water demands by 2% over the next 5 years and a 3% reduction over the next 10 years. The reduction of seasonal water demands will assist in deferring the development of new water wells and treatment plant expansion.
- Reduction of unaccounted for water loss to 10% over the next 10 years.

- Increase customer awareness of water conservation in domestic usage.

**Table 1**  
**Five Year and Ten-Year Targets for Water Savings**  
**Gallons Per Capita Per Day (gpcd)**

Description	Current Avg. (gpcd)	5 year goal (5% Reduction gpcd)	10 year goal (7% reduction gpcd)
<b>Total GPCD</b>	168	160	156

\*Population estimate is 433 persons  
 Total Gallons Treated 2018 26.534 MGD  
 Average 168 gpcd

As noted earlier, the District has limited data on customer usage due to metering problems. With the replacement of water meters in 2020, the District will be able to generate the information to determine water loss within the system. This data will be compiled on a monthly basis so that an accurate water loss can be calculated.

#### **4. Implementation Schedule**

With the adoption of this plan, the District will begin implementing the following measures:

- Continue to produce daily reports on the amount of raw water pumped to the water treatment plant and the amount of water pumped into the distribution system.
- With the installation of new customer meters the District will begin to accurately track monthly usage and provide a monthly account of water billed and compare it to the amount of water pumped into the distribution system to determine water loss for each month. These monthly reports will be compiled into an annual report.
- The District will begin to use work orders to track leak repairs. As part of the work order, the maintenance staff will estimate the amount of water lost and map the location of the leak so that an accurate map can be maintained for future use.
- Where appropriate, the District will meter line flushing to accurately track water use.
- An annual water conservation report will be developed and included in reporting requirements to the Texas Water Development Board.

- The District will provide water conservation materials at their office, post water conservation tips on their web site and post water conservation information in local venues.

## **5. Effectiveness Measures**

It is important to develop Effectiveness Measures in order to quantify the results of the Districts efforts. The following are Effectiveness Measures that will allow the District to track and evaluate the implementation of the conservation plan.

- Production of monthly reports detailing billed usage, water lost to leaks, fire department usage, flushing and water pumped from the well field to the treatment plant and water pumped into the distribution system.
- Production of an annual report summarizing the results of monthly reports and comparing the results to the water conservation goals.
- Document how many water conservation pamphlets and information have been made available to the public.
- Production of a map showing leak locations.

## **6. Metering**

The District policy is to provide universal metering for all water production, water pumped into the distribution system, and all customer meters.

- The District will provide master meters for all production and water put into the distribution system.
- All master meters will be periodically tested to assure that they are measuring accuracy within the limits established by the meter manufacturer.
- Where feasible, a meter will be used to measure flushing.
- All construction uses will be required to provide a meter to measure usage from fire hydrants or from the water treatment plant.

## **7. Measures to Control Unaccounted for Water Loss**

- Using the monthly reports on water usage determine if unaccounted water loss is within the 10% goal established in the plan.
- Field staff will monitor the system for potential leaks.
- Provide a phone number for customers to report leaks.
- Conduct an annual water audit and report to the Texas Water Development Board.
- Be diligent about identifying potential cross connections or illegal connections to the system.
- Report all unauthorized water withdrawals to the County Sheriff as a theft of service and potential threat to public health.
- Maintain a continuous program of leak detection, repair and water loss accounting for the water transmission, delivery and distribution system in order to control water loss.

## **8. Water Rate Structure**

The District will continue to maintain a water rate structure, which is cost based and not promotional in nature.

## **9. Continuing Education**

The District will continue to provide educational materials to customers and provide water conservation information on the District web site and local venues.

## **10. Enforcement**

With the adoption of this Water Conservation and Drought Contingency Plan, the District will enforce the plan through the restriction of service, or termination of service.

## **Drought Contingency Plan (Emergency Water Demand Management Plan)**

### **1. Introduction**

It is necessary that the District have in place a Drought Contingency/Emergency Water Demand Plan that will deal with emergency water demand situations. Public water supplies can be adversely impacted and public health jeopardized. Normal service can be interrupted by uncontrollable circumstances as drought, hurricanes, tornados, vandalism, floods or equipment failure.

This plan will provide the necessary indicators and control measures to temporarily reduce water demand in emergency situations. These provisions are designed to be in place only as long as an emergency situation exists. To be effective the plan must have the following elements:

- Trigger Conditions that will signal the existence of an emergency situation;
- Emergency control measures;

- Methods to relay information and notify the public;
- Enforcement procedures;
- Method of implementation of the plan;
- Procedure for plan termination notification.

## **Section 1: Declaration of Policy, Purpose and Intent**

This plan is designed to conserve the available water supply and protect the integrity of water supply facilities. Particular regard is for domestic use, sanitation and fire protection, protect and preserve the public health and welfare and minimize the adverse impacts of water supply shortages or emergency conditions. For these reasons the Tom Green County Fresh Water Supply District #2 (District) adopts the following regulations and restrictions on the delivery and consumption of water.

**Water uses regulated or prohibited under this plan are considered to be non-essential and continuation of such uses during times of water shortage or other emergency water supply conditions are deemed to constitute a waste of water that subjects the offender(s) to penalties as defined in Section 9 of this plan.**

## **Section 2: Public Involvement**

The District will make drought contingency emergency plan information available to the public as follows:

- The plan will be provided to anyone requesting a copy.
- The plan will be presented for adoption at a regularly scheduled Board of Directors meeting.

## **Section 3: Public Education**

Information about the conditions under which each stage of the Plan is to be initiated or terminated and the response measures to be implemented at each stage. This information will be posted at the District office, Post Office, and local businesses.

## **Section 4: Authorization**

The President of the Board of Directors or his/her designee is hereby authorized and directed to implement the applicable provisions of this Plan to protect public health, safety, and welfare. The President or his/her designee shall have the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

## **Section 5: Application**

The provisions of this Plan shall apply to all persons, customers, and property utilizing water provided by the District. The terms “person”, and “customer” as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

## **Section 6: Definitions**

For the purposes of this Plan, the following definitions shall apply:

**Aesthetic water use:** water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

**Commercial and institutional water use:** water use which is integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants, hospitals, clinics and office buildings.

**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.

**Customer:** any person, company, or organization using water supplied by District.

**Daily Maximum Supply:** is calculated using available pumping capacity District and available overhead storage.

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

**Even number address:** street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

**Industrial water use:** the use of water in processes designed to convert materials of lower value into forms having greater usability and value.

**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.

**Monitor well:** a well located in District Park that is used for water supply.

**Non-essential water use:** water uses that are not essential nor required for the protection of public, health, safety, and welfare, including:

- a) irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
- b) use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;

- c) use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
- d) use of water to wash down buildings or structures for purposes other than immediate fire protection;
- e) flushing gutters or permitting water to run or accumulate in any gutter or street;
- f) use of water to fill, refill, or add to any private indoor or outdoor swimming pools or jacuzzi-type pools;
- g) use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
- h) failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
- i) use of water from hydrants for construction purposes or any other purposes other than fire fighting.

Odd numbered address: street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.

## **Section 7: Criteria for Initiation and Termination of Drought Response Stages**

The President, or his/her designee, shall monitor water supply and/or demand conditions on a monthly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan, that is, when the specified “triggers” are reached.

The triggering criteria described below are based on the following:

- The District’s current wells and treatment facilities is rated at 576 gallons per minute (gpm) or 0.83 million gallons per day (mgd). Total water storage is 0.243 million gallons, of which 0.05 million gallons are elevated storage.

Daily water demand will be monitored for impending emergency conditions by District staff. Trigger conditions will be based on an emergency situation caused by a natural disaster, equipment, or system failure, or extended high daily water demands.

### **Stage 1 Triggers -- MILD Water Shortage Conditions (10% Reduction)**

Requirements for Initiation

Customers may be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses, defined in Definitions, when any one or more of these events occur:

1. Daily water use reached fifty percent (50-percent) of daily maximum storage for 15 consecutive days;
2. The water level in the water wells are reduced by 30% while the District pumps are running;
3. An extended period (3 months) of time without significant rainfall (less than 3-inches);
4. Failure of one or more of the District's pumps.

#### Requirements for termination

Stage 1 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of seven (7) consecutive days.

### **Stage 2 Triggers -- MODERATE Water Shortage Conditions (20% reduction)**

#### Requirements for initiation

Customers may be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section 9 of this Plan when any one or more of the following events occur:

1. Average daily water use reaches eighty percent (80-percent) of the maximum supply for 15 consecutive days;
2. The water level in any of the District's water storage tanks cannot be replenished quickly enough to maintain the average residual pressure on the system at 40 psi during working hours of the District;
3. The water level in the water wells are reduced by 40% while the District's pump is running;
4. Failure of one or more pumps or storage tanks that decreases the District's ability to maintain adequate storage for domestic and emergency service.

#### Requirements for termination



Stage 2 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage 2, Stage 1 becomes operative.

### **Stage 3 Triggers -- SEVERE Water Shortage Conditions (30% reduction)**

#### Requirements for initiation

Customers may be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 3 of this Plan when any one or more of the following events occur:

1. Failure of major component of the District's water system or an event which reduces the average residual pressure on the system below 40 PSI for a period of 8 hours;
2. Water consumption has reached ninety percent (90-percent) of daily maximum supply for 7 consecutive days;
3. The water level in any of the water storage tanks cannot be replenished quickly enough to maintain the average residual pressure on the system at 40 PSI during working hours District's overhead and/or ground storage tanks;
4. Loss of electricity for more than 4 hours, if during the outage the storage tank levels drop sufficiently to cause the average residual pressure on the system to fall below 40 PSI or 30% of overhead storage District.

#### Requirements for termination

Stage 3 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage 3, Stage 2 becomes operative.

### **Stage 4 Triggers – CRITICAL Water Shortage Conditions (40% reduction)**

#### Requirements for initiation

Customers may be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 4 of this Plan when any one or more of the following events occur:

1. Failure of major component of the District's water system or an event which reduces the average residual pressure on the system below 38 PSI for a period of 8 hours;
2. Water consumption has reached ninety-five percent (95-percent) of daily maximum supply for 7 consecutive days;

3. The water level in any of the District's water storage tanks cannot be replenished quickly enough to maintain the average residual pressure on the system at 38 PSI during working hours of the District;
4. Other unforeseen events, which could cause imminent health or safety risks to the public;
5. The water level in the water wells is reduced by 70% while the District's pumps are running;
6. Failure of a common pipeline connecting the District's wells to the water treatment plant;
7. Failure of the District's overhead and/or ground storage tanks;
8. Loss of electricity for more than 4 hours, if during the outage the storage tank levels drop sufficiently to cause the average residual pressure on the system to fall below 38 PSI.

#### Requirements for termination

Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage 4, Stage 3 becomes operative.

### **Stage 5 Triggers- EMERGENCY Water Shortage Conditions (50% reduction)**

#### Requirements for initiation

Customers may be required to comply with the requirements and restrictions for Stage 5 of this Plan when the President, or his/her designee, determines that a water supply emergency exists based on the occurrence of any one or more of the following events:

1. Failure of major component of the District's water system or an event which reduces the average residual pressure on the system below 37 PSI for a period of 12 hours;
2. Water consumption has reached ninety-seven percent (97-percent) of daily maximum supply for 3 consecutive days;
3. The water level in any of the District's water storage tanks cannot be replenished quickly enough to maintain the average residual pressure on the system at 35 PSI during working hours of the District;
4. Other unforeseen events, which could cause imminent health or safety risks to the public;
5. The water level in the water wells is reduced by 75% while the District's pumps are running;
6. Failure of a common pipeline connecting the District's wells to the water treatment plant;

7. Failure of one of the District's elevated storage tanks or failure of ground storage tanks;
8. Loss of electricity for more than 4 hours, if during the outage the storage tank levels drop sufficiently to cause the average residual pressure on the system to fall to 35 PSI;
9. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or
10. Natural or manmade contamination of the water supply source(s).

#### Requirements for termination

Stage 5 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage 5, Stage 4 becomes operative.

### **Section 8: Drought Response Stages**

The President, or his/her designee, shall monitor water supply and/or demand conditions on a daily basis and, in accordance with the triggering criteria set forth in this Plan, shall determine that a mild, moderate, severe, critical, emergency or water shortage condition exists and shall implement the following notification procedures.

#### **Notification**

##### Notification of the Public:

The President or his/ her designee shall notify the public by means of:

- Posting the Notice of Drought conditions at the District Office, Post Office, and local venues;
- At any time that the Plan is activated, or the drought stage changes, the District will notify local media of the issues, the drought response stage, and the specific actions required of the public;
- Inform the public through the local bulletin marques, news media that a trigger condition has been reached, and that they should look for ways to voluntarily reduce water use. Specific steps, which can be taken, will be provided through the news media.

##### Additional Notification:

The President or his/ her designee shall notify directly, or cause to be notified directly, the following individuals and entities, as appropriate:

- President / Board of Directors
- Fire Chief(s)
- County Emergency Management Coordinator(s)
- County Judge & Commissioner(s)
- State Disaster District / Department of Public Safety
- TCEQ (required when mandatory restrictions are imposed)
- Major water users
- Critical water users, i.e. hospitals, schools and nursing homes
- Parks/ street superintendents and public facilities managers

## Section 9: Drought Response Stages

### Emergency Drought Contingency Measures

1. **STEP I** curtailment is one where the **President may restrict:**

- The use of water for outdoor sprinkling, watering of lawns, shrubs, driveways, and automobiles to certain areas of the service area by days and to certain hours.

Said restrictions will remain in effect until the President lifts the restrictions. More specifically stated shall be:

1. Inform the public through the news media and local venues that a trigger condition has been reached, and that they should look for ways to voluntarily reduce water use. Specific steps, which can be taken, will be provided through the news media;
2. Notify major commercial water users of the situation and request voluntary water use reductions;
3. Mandatory lawn- watering schedule shall be implemented;
4. During winter months, request water users to insulate pipes rather than running water to prevent freezing; and
5. District will monitor water pressure in the distribution system and water levels in the storage tanks.

2. A **STEP II** curtailment would be one where the President will **ban the use of water totally for:**

- Outdoor sprinkling, watering of lawns, shrubs, driveways, and automobiles.

Said restriction will remain in effect until the President lifts the ban. More specifically stated as follows:

1. Continue implementation of all relevant actions in proceeding phase;
2. Car washing, window washing, and pavement washing prohibited except when a bucket is used;
3. The following public water uses, not essential for public health or safety, are prohibited/ street washing, filling pools, athletic field watering, golf course watering, and water hydrant flushing;
4. The curtailment will be effective upon the President's giving notice of curtailment of the communities within the area; the posting of a notice of curtailment and notifying the news media of curtailment and as stated in Section 3;
5. The curtailments will be terminated upon the President giving notice of termination as he does for the institution of the curtailment.

### **Stage 1 Response -- MILD Water Shortage Conditions**

Goal: Achieve a voluntary ten percent (10-percent) reduction in daily water demand.

1. Inform public by giving notice of a mild drought to the communities within the System; the posting of the notice, and notifying news media of the mild drought;
2. Include in the information to the public will be the recommendation that water users look for ways to conserve water;
3. The public will be advised of the trigger condition situation daily.

Supply Management Measures: None

Voluntary Water Use Restrictions:

Water customers are requested to:

1. Voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays;
2. Water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and to irrigate landscapes only between the hours of 8:00 p.m. to 10:00 a.m. on designated watering days;

3. All operations of the District shall adhere to water use restrictions prescribed for Stage 2 of the Plan;
4. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.

## **Stage 2 Response -- MODERATE Water Shortage Conditions**

Goal: Achieve a twenty percent (20-percent) reduction in daily water demand.

Supply Management Measures:

1. Reduce flushing of water mains for non-TCEQ mandated flushing.
2. Public will be informed as Stage 1 above.
3. The STEP I curtailment will be enacted.
4. Public will be advised of the trigger conditions daily.

Water Use Restrictions. Under threat of penalty for violation, the following water use restrictions shall apply to all persons:

1. Irrigation of landscaped areas with hose-end sprinklers or timed automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays;
2. Water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and irrigation of landscaped areas is further limited to the hours between 8:00 p.m. and 10:00 a.m. on designated watering days;
3. However, irrigation of landscaped areas is permitted at anytime if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system;
4. 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 8:00 a.m. to 10:00 a.m. and between 6:00 p.m. and 10:00 p.m. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rises;
5. Vehicle washing may be done 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 is

contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables;

6. Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or jacuzzi-type pools is prohibited except on designated watering days between the hours of between 8:00 p.m. and 10:00 a.m.;
7. 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;
8. Use of water from hydrants shall be limited to fire-fighting, related activities, or other activities necessary to maintain public health, safety, and welfare, except that use of water from designated fire hydrants for construction purposes may be allowed under special permit from the District;
9. Use of water for the irrigation of golf course greens, tees, and fairways is prohibited except on designated watering days between the hours 8:00 p.m. and 10:00 a.m. However, if the golf course utilizes a water source other than that provided by the District, the facility shall not be subject to these regulations.

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

1. Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
2. Use of water to wash down buildings or structures for purposes other than immediate fire protection;
3. Use of water for dust control;
4. Flushing gutters or permitting water to run or accumulate in any gutter or street;
5. Failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

### **Stage 3 Response -- SEVERE Water Shortage Conditions**

Goal: Achieve a thirty percent (30-percent) reduction in daily water demand.

Supply Management Measures:

1. Discontinue providing reduced rate water to all persons.

2. Restrict flushing of water mains except that required by TCEQ regulations;
3. Limit irrigation of public landscaped areas;
4. Study possible sites for additional supply well(s).
5. Public will be informed as mentioned above.
6. The STEP II curtailment will be enacted.
7. Public will be advised of the trigger conditions daily.

Water Use Restrictions. Under threat of penalty for violation, the following water use restrictions shall apply to all persons. All requirements of Stage 2 shall remain in effect during Stage 3 except:

1. Irrigation of landscaped areas shall be limited to designated watering days between the hours 8:00 p.m. and 10:00 a.m. and shall be by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed timed automatic sprinkler systems only. The use of hose-end sprinklers is prohibited at all times;
2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the District;
3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.

#### **Stage 4 Response -- CRITICAL Water Shortage Conditions**

Goal: Achieve a forty percent (40-percent) reduction in daily water demand.

Supply Management Measures:

1. Public will be informed as mentioned above.
2. The STEP II curtailment will be enacted.
3. Certain industrial and commercial water users, which are not essential to the health and safety of the community, may be prohibited from water usage.
4. Public will be advised of the trigger conditions daily.

Additional Supply Management Measures:

1. Adopt water rates 1.5 times the District's normal water rate including minimum and per gallon charges;
2. Drill additional supply well(s).

Water Use Restrictions. Under threat of penalty for violation, the following water use restrictions shall apply to all persons. All requirements of Stage 2 and 3 shall remain in effect during Stage 4 except:



1. Irrigation of landscaped areas shall be limited to designated watering days between the hours of 6:00 a.m. and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets (less than five (5) gallons), or drip irrigation only;
2. The use of hose-end sprinklers or permanently installed timed or untimed automatic sprinkler systems are prohibited at all times;
3. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations and not in the immediate interest of public health, safety, and welfare is prohibited. Further, such vehicle washing at commercial car washes and commercial service stations shall occur only between the hours of 6:00 a.m. and 10:00 a.m. and between 6:00 p.m. and 10:00 p.m.;
4. The filling, refilling, or adding of water to swimming pools, wading pools, and jacuzzi-type pools is prohibited;
5. 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;
6. No application for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be approved;
7. Time limits for approval of such applications are hereby suspended for such time as this drought response stage or a higher-numbered stage shall be in effect;

### **Stage 5 Response - EMERGENCY Water Shortage Conditions**

Goal: Achieve a fifty percent (50-percent) reduction in daily water demand.

Supply Management Measures:

1. Adopt water rates that are 2 times the DISTRICT's normal water rate including:  
Minimum and per gallon charges;
  - Drill additional supply well(s);
  - Seek alternative supply source(s).
2. Public will be informed as mentioned above.
3. The STEP II curtailment will be enacted.
4. Certain industrial and commercial water users, which are not essential to the health and safety of the community, may be prohibited from water usage.
5. Public will be advised of the trigger conditions daily

Water Use Restrictions. Under threat of penalty for violation, the following water use restrictions shall apply to all persons. All requirements of Stage 2, 3, and 4 shall remain in effect during Stage 5 except:

1. Irrigation of landscaped areas is absolutely prohibited;
2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle is absolutely prohibited.

### **Stage 6 Response -- WATER ALLOCATION**

In the event that water shortage conditions threaten public health, safety and welfare, the President is hereby authorized to allocated water according the following water Allocation Plan.

#### **Single-Family Residential Customers**

The allocation to residential water customers residing in a single-family dwelling shall be as follows:

Persons per Household Gallons per Month

1 or 2	6,000
3 or 4	7,000
5 or 6	8,000
7 or 8	9,000
9 or 10	10,000
11 or more	12,000

1. "Household" means the residential premises served by the customer's meter;
2. "Persons per household" includes only those persons currently physically residing at the premises and expected to reside there for the entire billing period;
3. It shall be assumed that a particular customer's household is comprised of two (2) persons unless the customer notifies the District of a greater number of persons per household on a form prescribed by the President;
4. The President shall give his/her best effort to see that such forms are mailed, otherwise provided, or made available to every residential customer;

5. If a customer does not receive such a form, it shall be the customer's responsibility to go to District Office to complete and sign the form claiming more than two (2) persons per household;
6. New customers may claim more persons per household at the time of applying for water service on the form prescribed by the President;
7. When the number of persons per household increases so as to place the customer in a different allocation category, the customer may notify the District on such form and the change will be implemented in the next practicable billing period;
8. If the number of persons in a household is reduced, the customer shall notify the District in writing within two (2) business days;
9. In prescribing the method for claiming more than two (2) persons per household, the President shall adopt methods to insure the accuracy of the claim;
10. Any person who knowingly, recklessly, or with criminal negligence falsely reports the number of persons in a household or fails to timely notify the District of a reduction in the number of person in a household shall be fined not less than FIFTY DOLLARS (\$50.00).

Residential water customers shall pay the following surcharges:

\$4.00 for the first 1,000 gallons over allocation.

\$5.00 for the second 1,000 gallons over allocation.

\$7.00 for each additional 1,000 gallons over allocation.

Surcharges shall be cumulative.

#### **Master-Metered Multi-Family Residential Customers**

The allocation to a customer, billed from a master meter, which jointly measures water to multiple permanent residential dwelling units (e.g., apartments, mobile homes):

1. shall be allocated 6,000 gallons per month for each dwelling unit;
2. It shall be assumed that such a customer's meter serves two dwelling units unless the customer notifies the District of a greater number on a form prescribed by the President;

3. The President shall give his/her best effort to see that such forms are mailed, otherwise provided, or made available to every such customer;
4. If a customer does not receive such a form, it shall be the customer's responsibility to go to District Office to complete and sign the form claiming more than two (2) dwellings;
5. A dwelling unit may be claimed under this provision whether it is occupied or not;
6. New customers may claim more dwelling units at the time of applying for water service on the form prescribed by the President;
7. If the number of dwelling units served by a master meter is reduced, the customer shall notify the District in writing within two (2) days;
8. In prescribing the method for claiming more than two (2) dwelling units, the President shall adopt methods to insure the accuracy of the claim;
9. Any person who knowingly, recklessly, or with criminal negligence falsely reports the number of dwelling units served by a master meter or fails to timely notify the District of a reduction in the number of person in a household shall be fined not less than FIFTY DOLLARS (\$50.00).

Customers billed from a master meter under this provision shall pay the following monthly surcharges:

\$4.00 for 1,000 gallons over allocation up through 1,000 gallons for each dwelling unit.

\$5.00, thereafter, for each additional 1,000 gallons over allocation up through a second 1,000 gallons for each dwelling unit.

\$7.00, thereafter, for each additional 1,000 gallons over allocation up through a third 1,000 gallons for each dwelling unit.

Surcharges shall be cumulative.

## Commercial Customers

A monthly water allocation shall be established by the President, or his/her designee, for each nonresidential commercial customer, other than an industrial customer, who uses water for processing purposes:

1. The non-residential customer's allocation shall be approximately 75 Percent of the customer's usage for corresponding month's billing period for the previous 12 months;
2. If the customer's billing history is shorter than 12 months, the monthly average for the period for which there is a record shall be used for any monthly period for which no history exists;
3. The President shall give his/her best effort to see that notice of each non-residential customer's allocation is mailed to such customer;
4. If, however, a customer does not receive such notice, it shall be the customer's responsibility to contact the District to determine the allocation;
5. Upon request of the customer or at the initiative of the President, the allocation may be reduced or increased if:
  - a. the designated period does not accurately reflect the customer's normal water usage,
  - b. one nonresidential customer agrees to transfer part of its allocation to another nonresidential customer, or
  - c. other objective evidence demonstrates that the designated allocation is inaccurate under present conditions.
6. A customer may appeal an allocation established hereunder to the District Board of Directors.

Nonresidential commercial customers shall pay the following surcharges:

\$4.00 per thousand gallons for the first 10,000 gallons over allocation.

\$ 5.00 per thousand gallons for the second 10,000 gallons over allocation.

\$7.00 per thousand gallons for each additional 1,000 gallons over allocation.

The surcharges shall be cumulative.

## Industrial Customers

The President, or his/her designee, shall establish a monthly water allocation for each industrial customer using water for processing purposes.

1. The industrial customer's allocation shall be approximately 90 Percent of the customer's water usage baseline;
2. Ninety (90) days after the initial imposition of the allocation for industrial customers, the industrial customer's allocation shall be further reduced to 80 Percent of the customer's water usage baseline;
3. The industrial customer's water use baseline will be computed on the average water use for the 24-Month period ending prior to the date of implementation of Stage 2 of the Plan.
4. If the industrial water customer's billing history is shorter than 24 MONTHS, the monthly average for the period for which there is a record shall be used for any monthly period for which no billing history exists;
5. The President shall give his/her best effort to see that notice of each industrial customer's allocation is mailed to such customer;
6. If a customer does not receive such notice, it shall be the customer's responsibility to contact the District to determine the allocation, and the allocation shall be fully effective notwithstanding the lack of receipt of written notice;
7. Upon request of the customer or at the initiative of the President, the allocation may be reduced or increased;
  - a. if the designated period does not accurately reflect the customer's normal water use because the customer had shutdown a major processing unit for repair or overhaul during the period,
  - b. the customer has added or is in the process of adding significant additional processing capability,
  - c. the customer has shutdown or significantly reduced the production of a major processing unit,
  - d. the customer has previously implemented significant permanent water conservation measures such that the ability to further reduce water use is limited,
  - e. the customer agrees to transfer part of its allocation to another industrial customer, or

- f. if other objective evidence demonstrates that the designated allocation is inaccurate under present conditions.
6. A customer may appeal an allocation to the District Board of Directors.

Industrial customers shall pay the following surcharges:

\$4.00 per thousand gallons for the first 100,000 gallons over allocation.

\$5.00 per thousand gallons for the second 100,000 gallons over allocation.

\$7.00 per thousand gallons for each additional 1,000 gallons over allocation.

The surcharges shall be cumulative.

### **Section 10: Enforcement**

1. No person shall knowingly or intentionally allow the use of water from the District for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Plan;
2. Or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by the President, or his/her designee, in accordance with provisions of this Plan;
3. Any person who violates this Plan is guilty of a misdemeanor and, upon conviction shall be punished by a fine of not less than FIFTY DOLLARS (\$50.00) and not more than FIVE HUNDRED DOLLARS (\$500.00);
4. Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense;
5. If a person is convicted of three (3) or more distinct violations of this Plan, the President shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur;
6. Services discontinued under such circumstances shall be restored only upon payment of a re-connection charge, hereby established at FIFTY DOLLARS (\$50.00), and any other costs incurred by the District in discontinuing service;

7. In addition, suitable assurance must be given to the President that the same action shall not be repeated while the Plan is in effect;
8. Compliance with this plan may also be sought through injunctive relief in the District court;
9. Any person, including a person classified as a water customer of the District, in apparent control of the property where a violation occurs or originates shall be presumed to be the violator;
10. proof that the violation occurred on the person's property shall constitute a rebuttable presumption that the person in apparent control of the property committed the violation;
11. any such person shall have the right to show that he/she did not commit the violation;
12. Parents shall be presumed to be responsible for violations of their minor children and proof that a violation, committed by a child, occurred on property within the parents' control shall constitute a rebuttable presumption that the parent committed the violation;
13. any such parent may be excused if he/she proves that he/she had previously directed the child not to use the water as it was used in violation of this Plan and that the parent could not have reasonably known of the violation;
14. Any employee of the District, law enforcement officer, or other Individual designated by the President, may issue a citation to a person he/she reasonably believes to be in violation of this Plan;
15. The citation shall be prepared in duplicate and shall contain the name and address of the alleged violator, if known, the offense charged, and shall direct him/her to appear in the County Court at Law on the date shown on the citation;
16. the date shall not be less than 3 days nor more than 5 days from the date the citation was issued;
17. The alleged violator shall be served a copy of the citation;
18. Service of the citation shall be complete upon delivery of the citation to the alleged violator, to an agent or employee of a violator, or to a person over 14 years of age who is a member of the violator's immediate family or is a resident of the violator's residence;



19. The alleged violator shall appear in the County Court at Law to enter a plea of guilty or not guilty for the violation of this Plan;
20. If the alleged violator fails to appear in County Court at Law, a warrant for his/her arrest may be issued. A summons to appear may be issued in lieu of an arrest warrant.

## **Section 11: Variances**

The President, or his/her designee, may, in writing:

1. Grant temporary variance for existing water uses otherwise prohibited under this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the health, sanitation, or fire protection for the public or the person requesting such variance and if one or more of the following conditions are met:
  - (a) Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.
  - (b) Alternative methods can be implemented which will achieve the same level of reduction in water use.
2. Persons requesting an exemption from the provisions of this Ordinance shall file a petition for variance with the District within 5 days after the Plan or a particular drought response stage has been invoked;
3. All petitions for variances shall be reviewed by the President, or his/her designee, and shall include the following:
  - (a) Name and address of the petitioner(s).
  - (b) Purpose of water use.
  - (c) Specific provision(s) of the Plan from which the petitioner is requesting relief.
  - (d) Detailed statement as to how the specific provision of the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Ordinance.
  - (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 this Plan and the compliance date.
  - (h) Other pertinent information.

Variations granted by the District shall be subject to the following conditions, unless waived or modified by the President or his/her designee:

- (a) Variations granted shall include a timetable for compliance.
- (b) Variations granted shall expire when the Plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

**No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.**