



CITY OF MISSOURI CITY

DROUGHT CONTINGENCY PLAN

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DROUGHT CONTINGENCY PLAN

Section I. Declaration of Policy, Purpose, and Intent

In order to conserve the available public drinking water supply and/or to protect the integrity of potable water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the City of Missouri City, Texas (City) adopts the following Drought Contingency Plan (Plan).

Section II. Public Involvement

Opportunity for the public, wholesale, and retail potable water customers to provide input into the preparation of the Plan was provided by the City by means of public hearings at regular City Council meetings on July 6, 2021, and July 19, 2021. The Plan was explicitly discussed, and public comment was encouraged at those meetings.

Section III. Water Customer Education

The City and members of the City's Ground Water Reduction Plan (GRP) will periodically provide all Customers with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. Information concerning the Plan will also be provided via the City's website. A copy of the Plan will be provided to the wholesale customers initially after adoption of the Plan and thereafter when the Plan is revised or resubmitted to the Texas Commission on Environmental Quality (TCEQ).

Section IV. Coordination with Regional Water Planning Group

The wholesale and retail water service area of the City of Missouri City is located within the Region H Water Planning Group and the City has provided a copy of the Plan to the Region H Water Planning Group and to the City's water supplier, the **Gulf Coast Water Authority (GCWA)**. Copies of the Plan, transmittal letters to the Region H water planning group and the GCWA are available upon request.

Section V. Authorization

The Public Works Director for the City of Missouri City, or his/her designee, is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare of the public. The Public Works Director, 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 VI. Application

The provisions of this Plan shall apply to all entities utilizing water provided by the City of Missouri City, including all members of the GRP, both ground water (non-converted) and surface water (converted) users. The terms “person” and “customer” as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities. When the Public Works Director or a designee initiates or terminates response stages under this Plan, he/she will immediately notify the public by means of announcements through the city’s website and local news media. Unless otherwise specified for specific responses listed below, water supply update releases will be on at least a daily basis during implementation of this Plan when conditions warrant drought stage 2 or higher.

Section VII. Definitions

For the purposes of this Plan, the following definitions shall apply. Defined terms are shown in **BOLD** fonts throughout the Plan.

- **Aesthetic Water Use:** water use for ornamental or decorative purposes such as in fountains, reflecting pools, and water gardens.
- **All Customers** – all customers in the City of Missouri City Ground Water Reduction Plan, including both Surface Water Users and Ground Water Users.
- **Baseline Historical Monthly Average Water Usage** - the computed monthly average usage for wholesale customers and all retail customers (in aggregate) of the City of Missouri City based on actual usage during the same month during the three previous calendar years, excluding any reductions in usage as a result of implementing a Stage Response measure pursuant to this Plan.
- **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, 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 alternative uses.
- **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 Numbered Address:** street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.
- **Ground Water Users** – customers in the City of Missouri City Ground Water Reduction Plan who utilize groundwater.
- **Gulf Coast Water Authority (GCWA)** – the primary supplier of Surface water for the City of Missouri City, whose water allocation decisions directly affect water availability under the City of Missouri City’s contract for water supplies. Water conservation procedures within the **GCWA** drought contingency plan directly affect water availability for the City of Missouri City, and the Public Works Director or a designee may implement City of Missouri City drought stage responses in direct accord with those implemented by **GCWA**.
- **Historical Monthly Average Water Usage** - the computed monthly average usage for the City of Missouri City based on actual usage (as reported to **GCWA** and approved by the City) during the same month during the three previous calendar years, excluding any reductions in usage as a result of implementing a Stage Response measure pursuant to this Plan.
- **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:** water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including but not limited to residential and commercial lawns, gardens, golf courses, parks, right-of-ways, and medians.
- **Non-Essential Water Use:** the use of potable water for activities deemed beneficial yet non-essential for the maintenance of public health, safety and welfare for the City of Missouri City. Non-essential water use will be regulated or prohibited depending on implementation stages of this Plan. The Public Works Director may designate whether a water usage activity results in Non-Essential Water Use, and may modify such designations from time to time. The following water use activities are considered as Non-Essential Water Use activities for the purposes of this Plan: :
 - irrigation of landscape areas, including parks, schools, athletic fields, and golf courses, except otherwise provided under this Plan;
 - use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;
 - use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
 - use of water to wash down buildings or structures for purposes other than immediate fire protection;
 - flushing gutters or permitting water to run or accumulate in any gutter or street;
 - use of water to fill, refill, or add to any indoor or outdoor swimming pools or jacuzzi-type pools;
 - use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
 - use of water from hydrants for construction purposes or any other purposes other than firefighting;
 - failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

- **Odd Numbered Address:** street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.
- **Retail Customer:** any person or entity purchasing drinking water from the City of Missouri City for use or consumption.
- **Surface Water Users** - customers in the City of Missouri City Ground Water Reduction Plan who utilize surface water. This water is generally provided by the GCWA.
- **Wholesale Customer:** any entity purchasing potable water from the City of Missouri City for resale or redistribution.

Section VIII. Recommended Residential Water Conservation & Demand Reduction Measures

During any stage of drought response, efforts must be made to reduce water usage and minimize water demand. The following means of conserving water and minimizing water usage are **recommended**. These measures are **voluntary** and are not enforceable by the City of Missouri City.

Voluntary Water Conservation Measures – All Drought Stages

#1	Limit showers to 2-5 minutes or less for Stage 2, 3, 4, and 5 drought responses	
#2	Turn off showers while lathering hair and body, and only turning on showers to rinse	
#3	Re-use cooking water to water plants, or to rinse/wash dishes	
#4	<u>Delay clothes washing until full loads are available.</u>	
	<u>Limit clothes laundering to:</u>	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, Thursdays, and Saturdays Before 10:00am or after 2:00pm.	Wednesdays, Fridays, and Sundays Before 10:00am or after 2:00pm.
#5	Utilize hand sanitizers rather than washing hands with potable water	
#6	Utilize dry shampoos and wet-wipes to clean your body and decrease the frequency of showering.	
#7	Harvest rainwater using rain barrels, with the water later used for landscape irrigation	

Section IX. Criteria for Initiation and Termination of Drought Response Stages

The Public Works Director, or his/her designee shall monitor water supply and/or demand conditions on a Daily/Weekly/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.

Notification to **All Customers** of the initiation or termination of drought response stages will be made through the City's website and local news media.

Within five (5) days of implementing (or terminating) mandatory water use restrictions, the Public Works Director (or a designee) will notify the Texas Commission on Environmental Quality (TCEQ). Notifications will be submitted to the TCEQ Public Drinking Water Section Drought Team, and will be submitted via the TCEQ-required online form, currently available at:

https://www.tceq.texas.gov/drinkingwater/homeland_security/security_pws. Assistance in making notifications may be obtained via e-mail to wcp@tceq.texas.gov or via phone at 512-239-4691.

The City of Missouri City may move between drought stages as needed to effectively manage water supplies and demands. It is not necessary to sequentially progress through drought stages, and the Public Works Director (or a designee) may skip drought stages as conditions warrant.

The triggering criteria and response measures described below are based on experience of City staff and associates obtained by managing water supplies through recent drought periods. Triggering criteria and response measures are also based on similar criteria and measures utilized by the **GCWA**.

Stage 1 Triggers – MILD Water Shortage Conditions

Requirements for initiation:

Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses, defined in Section VII Definitions, when:

1. The **GCWA** has initiated a Stage 1 Response under its Drought Contingency Plan.
2. Total water demand exceeds 80% of the deliverable capacity from the Missouri City Regional Water Treatment Plant (MCRWTP) for three (3) consecutive days.
3. When continually falling water storage facility levels in retail storage tanks do not refill above the 50% level overnight.

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 3 consecutive days.

Stage 2 Triggers - MODERATE Water Shortage Conditions

Requirements for initiation:

Customers shall be required to comply with the requirements and restrictions on certain **non-essential water uses** provided in Section X of this Plan when:

1. The **GCWA** has initiated a Stage 2 Response under its Drought Contingency Plan.
2. Total water demand exceeds 90% of the deliverable capacity from the Missouri City Regional Water Treatment Plant (MCRWTP) for three (3) consecutive days.
3. When continually falling water storage facility levels in retail storage tanks do not refill above the 50% level overnight for three (3) consecutive days.

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 3 consecutive days. Upon termination of Stage 2, Stage 1, or the applicable drought response stage based on the triggering criteria, becomes operative.

Stage 3 Triggers – SEVERE Water Shortage Conditions

Requirements for initiation:

Customers shall be required to comply with the requirements and restrictions on certain **non-essential water uses** for Stage 3 of this Plan when:

1. The **GCWA** has initiated a Stage 3 Response under its Drought Contingency Plan.
2. Total water demand exceeds 95% of the deliverable capacity from the Missouri City Regional Water Treatment Plant (MCRWTP) for three (3) consecutive days.
3. When continually falling water storage facility levels in retail storage tanks do not refill above the 50% level overnight for five (5) consecutive days.

Requirements for termination:

Stage 3 of this Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 consecutive days. Upon termination of Stage 3, Stage 2 or the applicable drought response stage based on the triggering criteria, becomes operative.

Stage 4 Triggers - CRITICAL Water Shortage Conditions

Requirements for initiation:

Customers shall be required to comply with the requirements and restrictions on certain **non-essential water uses** for Stage 4 of this Plan when:

1. The **GCWA** has initiated a Stage 4 Response under its Drought Contingency Plan.
2. Total water demand exceeds 95% of the deliverable capacity from the Missouri City Regional Water Treatment Plant (MCRWTP) for three (3) consecutive days
3. When continually falling water storage facility levels in retail storage tanks do not refill above the 50% level overnight for five (5) consecutive days.

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 3 consecutive days. Upon termination of Stage 4, Stage 3, or the applicable drought response stage based on the triggering criteria, becomes operative.

Stage 5 Triggers - EMERGENCY Water Shortage Conditions

Requirements for initiation:

Customers shall be required to comply with the requirements and restrictions on certain **non-essential water uses** for Stage 5 of this Plan when:

1. The **GCWA** has initiated a Stage 5 Response under its Drought Contingency Plan.
2. Major water line breaks, pump failures, or system failures occur which cause significant loss of capability to provide water service.
3. Natural or man-made contamination of the water supply sources limits or prohibits the delivery of potable water.
4. Stage 4 Response measures have not reduced the water usage to goal levels, and the Public Works Director (or a designee) determines the City may not be able to meet the water demands of customers.

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 3 consecutive days. Upon termination of Stage 5, Stage 4, or the applicable drought response stage based on the triggering criteria, comes operative.

Section X. Drought Response Stages

Normal operations of the City of Missouri City water treatment and distribution systems is considered a Stage 0 drought response under this Plan. Under Stage 0 conditions, **All Customers** receive water at the time, quantity, and quality desired.

Utilization of alternative water sources and/or alternative delivery mechanisms:

Alternative water source(s) for the City is/are: Groundwater, other well(s), purchased water from **Gulf Coast Water Authority (GCWA)**, and use of reclaimed water for non-potable purposes.

Section X.1 - Stage 1 Response (Mild Water Shortage; TCEQ “Watch” Level)

Target: Achieve a voluntary **5%** reduction of water use compared to the **Baseline Historical Monthly Average Water Usage** (from both surface water and ground water sources) as calculated by the City.

The Public Works Director (or a designee) may implement of any of the following actions deemed necessary, and may implement other appropriate actions not listed below:

General Measures:

- Notify **All Customers** that a Stage 1 Response condition exists;
- Request voluntary reductions in water use by **All Customers**; and
- Increase public awareness of drought or system conditions and measures to reduce demand.

Supply Management Measures:

- Monitor water supply (surface water and ground water) and demand and notify users by press releases of conditions as appropriate.
- Notify all customers regarding the need to reduce usage by at least **5%**.
- Defer or delay City maintenance services (e.g. flushing of water mains, watering of City property);
- Utilize reclaimed, non-potable water for Landscape Irrigation Use, wherever feasible;
- Initiate usage of alternative sources of potable water where feasible.

Stage 1 Voluntary Demand Reduction Measures

Issue press releases and/or publish notices in all media, requesting practice of water conservation, and minimization or discontinuance of all Non-Essential Water Uses .	
Request, via press releases and/or published notices, that All Customers voluntarily limit Landscape Irrigation Use :	
For Customers with odd street numbers	For Customers with even street numbers:
Tuesdays, and Saturdays	Wednesdays, and Sundays
before 10:00am OR after 8:00pm	before 10:00am OR after 8:00pm

Section X.2 - Stage 2 Response (Moderate Water Shortage; TCEQ “Concern” Level)

Target: Achieve a **10%** reduction of water use compared to the **Baseline Historical Monthly Average Water Usage** (from both surface water and ground water sources) as calculated by the City.

Secondary Target: Achieve a **10%** reduction of water use compared to the **Historical Monthly Average Water Usage** (from both surface water and ground water sources) as calculated by the **GCWA** and approved by the City.

The Public Works Director (or a designee) may implement of any of the following actions deemed necessary, and may implement other appropriate actions not listed below.

General Measures:

- Notify **All Customers** that a Stage 2 Response condition exists;
- Request reductions in water use by **All Customers**; and
- Increase public awareness of drought or system conditions and measures to reduce demand.

Supply Management Measures:

- Monitor water supply (surface water and ground water) and demand and notify users by press releases of conditions as appropriate.
- Notify all customers regarding the need to reduce usage by at least **10%**.
- Defer or delay City maintenance services (e.g. flushing of water mains, watering of City property);
- Utilize reclaimed, non-potable water for Landscape Irrigation Use, wherever feasible;
- Initiate usage of alternative sources of potable water where feasible.

Stage 2 Mandatory Demand Reduction Measures

#1	Limit Landscape Irrigation Use:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, and Saturdays	Wednesdays, and Sundays
	before 10:00am OR after 8:00pm	before 10:00am OR after 8:00pm
**Landscape irrigation is permitted at ANYTIME on designated days if it is by means of a hand-held hose, a faucet filled bucket, or watering can of five (5) gallons or less, or via a drip irrigation system.		
#2	Limit Private Vehicle Washing , including any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, Thursdays, and Saturdays	Wednesdays, Fridays, and Sundays
	before 10:00am OR after 8:00pm	before 10:00am OR after 8:00pm

	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 rinses.	
	Vehicle washing may be done at any time at a commercial car wash or commercial service station.	
	Further, such washing may be exempted from the Plan if, as determined by the Public Works Director (or a designee), the health, safety, and welfare of the public is contingent upon frequent vehicle cleansing, such as garbage trucks, fishing vessels, and vehicles used to transport food and perishables.	
#3	Limit Pool Filling or Refilling , including any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, Thursdays, and Saturdays	Wednesdays, Fridays, and Sundays
	before 10:00am OR after 8:00pm	before 10:00am OR after 8:00pm
#4	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.	
#5	Limit water usage from fire hydrants for only firefighting, 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 City of Missouri City.	
#6	Limit Potable Water Use for Golf Course Irrigation for greens, tees, and fairways:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, Thursdays, and Saturdays	Wednesdays, Fridays, and Sundays
	before 10:00am OR after 8:00pm	before 10:00am OR after 8:00pm
	Properties utilizing a water source other than potable water (e.g. reclaimed, non-potable water) are not subject to this regulation.	
#7	All restaurants are prohibited from serving water to patrons except upon request of the patron.	
#8	The following uses of water are defined as non-essential and are prohibited:	
	Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas	
	Wash down of buildings or structures for purposes other than immediate fire protection	
	Use of water for dust control, except as permitted by the Public Works Director (or a designee)	
	Flushing gutters, or allowing water to run or accumulate in any gutter or street; and	
	Failure to repair controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s)	

**Section X.3 - Stage 3 Response (Severe Water Shortage; TCEO
“Priority” Level)**

Target: Achieve a **15%** reduction of water use compared to the **Baseline Historical Monthly Average Water Usage** as calculated by the City.

Secondary Target: Achieve a **15%** reduction of water use compared to the **Historical Monthly Average Water Usage** as calculated by **GCWA** and approved by the City.

The Public Works Director (or a designee) may implement of any of the following actions deemed necessary, and may implement other appropriate actions not listed below.

General Measures:

- Notify **All Customers** that a Stage 3 Response condition exists;
- Require reductions in water use by **All Customers**; and
- Increase public awareness of drought or system conditions and measures to reduce demand.

Supply Management Measures:

- Monitor water supply (surface water and ground water) and demand and notify users by press releases of conditions as appropriate.
- Notify all customers regarding the need to reduce usage by at least **15%**.
- Defer or delay City maintenance services (e.g. flushing of water mains, watering of City property);
- Utilize reclaimed, non-potable water for Landscape Irrigation Use, wherever feasible;
- Initiate usage of alternative sources of potable water where feasible.

Stage 3 Mandatory Demand Reduction Measures

#1	Limit Landscape Irrigation Use:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, and Saturdays before 10:00am OR after 8:00pm	Wednesdays, and Sundays before 10:00am OR after 8:00pm
**Landscape irrigation is only permitted by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times.		
#2	Limit Private Vehicle Washing , including any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, Thursdays, and Saturdays before 10:00am OR after 8:00pm	Wednesdays, Fridays, and Sundays before 10:00am OR after 8:00pm

	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 rinses.	
	Vehicle washing may be done at any time at a commercial car wash or commercial service station.	
	Further, such washing may be exempted from the Plan if, as determined by the Public Works Director (or a designee), the health, safety, and welfare of the public is contingent upon frequent vehicle cleansing, such as garbage trucks, fishing vessels, and vehicles used to transport food and perishables.	
#3	Limit Pool Filling or Refilling , including any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, Thursdays, and Saturdays	Wednesdays, Fridays, and Sundays
	before 10:00am OR after 8:00pm	before 10:00am OR after 8:00pm
#4	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.	
#5	Limit water usage from fire hydrants for only firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare. The use of water for construction purposes from designated fire hydrants under special permit is prohibited .	
#6	The watering of golf course trees is prohibited unless the golf utilizes a non-potable water source.	
#7	All restaurants are prohibited from serving water to patrons except upon request of the patron.	
#8	The following uses of water are defined as non-essential and are prohibited:	
	Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas	
	Wash down of buildings or structures for purposes other than immediate fire protection	
	Use of water for dust control, except as permitted by the Public Works Director (or a designee)	
	Flushing gutters, or allowing water to run or accumulate in any gutter or street; and Failure to repair controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s)	

Section X.4 - Stage 4 Response (Extreme Water Shortage; TCEO “Emergency” Level)

Target: Achieve a **20%** reduction of water use compared to the **Baseline Historical Monthly Average Water Usage** as calculated by the City.

Secondary Target: Achieve a **20%** reduction of water use compared to the **Historical Monthly Average Water Usage** as calculated by the **GCWA** and approved by the City.

The Public Works Director (or a designee) may implement of any of the following actions deemed necessary, and may implement other appropriate actions not listed below.

General Measures:

- Notify **All Customers** that a Stage 4 Response condition exists;
- Require reductions in water use by **All Customers**; and
- Increase public awareness of drought or system conditions and measures to reduce demand.

Supply Management Measures:

- Monitor water supply and demand and notify users by press releases of conditions as appropriate;
- Notify all customers regarding the need to reduce usage by at least **20%**.
- Defer or delay City maintenance services (e.g. flushing of water mains, watering of City property);
- Utilize reclaimed, non-potable water for Landscape Irrigation Use, wherever feasible; and
- Initiate alternative sources of potable water where feasible.

Stage 4 Mandatory Demand Reduction Measures

#1	Limit Landscape Irrigation Use:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, and Saturdays 6:00am to 10:00am OR 8:00pm to 12:00 midnight	Wednesdays, and Sundays 6:00am to 10:00am OR 8:00pm to 12:00 midnight
**Landscape irrigation is only permitted by means of hand-held hoses, hand-held buckets, drip irrigation. The use of hose-end sprinklers or permanently installed automatic sprinkler systems are prohibited at all times.		
#2	Limit Private Vehicle Washing , including any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays, Thursdays, and Saturdays 6:00am to 10:00am OR 8:00pm to 12:00 midnight	Wednesdays, Fridays, and Sundays 6:00am to 10:00am OR 8:00pm to 12:00 midnight

	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.
#3	Pool Filling or Refilling , or adding of water to swimming pools, wading pools and Jacuzzi-type pools is prohibited.
#4	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.
#5	Limit water usage from fire hydrants for only firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare. The use of water for construction purposes from designated fire hydrants under special permit is prohibited .
#6	The watering of golf course trees is prohibited unless the golf course utilizes a non-potable water source.
#7	All restaurants are prohibited from serving water to patrons except upon request of the patron.
#8	The following uses of water are defined as non-essential and are prohibited:
	Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas
	Wash down of buildings or structures for purposes other than immediate fire protection
	Use of water for dust control, except as permitted by the Public Works Director (or a designee)
	Flushing gutters, or allowing water to run or accumulate in any gutter or street; and Failure to repair controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s)
#9	No 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 shall be approved and 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.

**Section X.5 - Stage 5 Response (Emergency Water Shortage; TCEO
“Emergency” Level)**

Target: The goal for water use under Stage 5 is subject to the scope of the emergency.

The Public Works Director (or a designee) may implement any of the following actions deemed necessary, and may implement other appropriate actions not listed below.

General Measures:

- Notify **All Customers** that a Stage 5 Response condition exists;
- Require reductions in water use by **All Customers**; and
- Increase public awareness of drought or system conditions and measures to reduce demand.

Supply Management Measures:

- Discontinue all potable water system operations and correct the emergency situation to insure a safe supply of potable water;
- Monitor water supply and demand on a constant basis and notify users by press releases of conditions as appropriate, with notices provided at least every 4 hours;
- Issue Boil Water notices via press releases, and publish these notices;
- Place Fire Department on Alert;
- Defer or delay City maintenance services (e.g. flushing of water mains, watering of City property);
- Initiate usage of reclaimed, non-potable water for **Landscape Irrigation Use**, wherever feasible; and
- Initiate usage of alternative sources of potable water where feasible.

Stage 5 Mandatory Demand Reduction Measures

#1	Landscape Irrigation of landscaped areas is absolutely prohibited .
#2	Private Vehicle Washing , including any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle is absolutely prohibited .
#3	Pool Filling or Refilling , or adding of water to swimming pools, wading pools and Jacuzzi-type pools is prohibited .
#4	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.
#5	Limit water usage from fire hydrants for only firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare. The use of water for construction purposes from designated fire hydrants under special permit is prohibited .

#6	The watering of golf course trees is prohibited unless the golf course utilizes a non-potable water source.
#7	All restaurants are prohibited from serving water to patrons except upon request of the patron.
#8	<p>The following uses of water are defined as non-essential and are prohibited:</p> <p>Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas</p> <p>Wash down of buildings or structures for purposes other than immediate fire protection</p> <p>Use of water for dust control, except as permitted by the Public Works Director (or a designee)</p> <p>Flushing gutters, or allowing water to run or accumulate in any gutter or street; and</p> <p>Failure to repair controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s)</p>
#9	No 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 shall be approved and 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.

Whenever emergency water shortage conditions exist as defined in Section IX of the Plan, the Public Works Director shall:

1. Assess the severity of the problem and identify the actions needed and time required to solve the problem.
2. Inform the responsible official of each wholesale water customer by telephone or in person and suggest actions, as appropriate, to alleviate problems.
3. If appropriate, notify city, county and/or state emergency response officials for assistance.
4. Undertake necessary actions, including repairs and/or clean-up as needed.
5. Create a post-event assessment report on the incident and critique of emergency response procedures and actions.

Section XI. Emergency Water Allocation

If the supply of available potable water reaches such a low level that anticipated demand cannot be met and the health and safety of the community may be at risk, the Public Works Director (or a designee) shall be responsible for administering an allocation program under which the City may limit the times and/or days water will be pumped into the water distribution system. If necessary, this allocation may vary for areas of the City served by different areas of the water distribution system. Schedules of water availability in different areas of the City will be announced by press releases, and may be supplemented by the distribution of circulars at businesses and public buildings throughout the City, as determined by the Public Works Director (or a designee).

Section XII. Pro Rata Curtailment

In the event that triggering criteria specified in Section IX of the Plan for Stage 3 – Severe Water Shortage Conditions have been met, the Public Works Director is hereby authorized to initiate allocation of water supplies on a pro-rata basis in accordance with Texas Water Code, §11.039.

Section XIII. Contract Provisions

The City of Missouri City will include a provision in every wholesale water contract entered into or renewed after adoption of this plan, including contract extensions, that in case of a shortage of water resulting from drought, the water to be distributed shall be allocated in accordance with Texas Water Code, §11.039.

Section XIV. Enforcement

- (a) No person shall knowingly or intentionally allow the use of water from the City of Missouri City for residential, commercial, industrial, agricultural, governmental, or any use contrary to any provision of this Plan, as specified by the drought response stage in effect at the time as a result of action taken by Public Works Director (or a designee), in accordance with provisions of this Plan. Any violation shall be considered an infraction against the City Ordinance 0-19-08.
- (b) Any person who violates this Plan is guilty of a misdemeanor and shall be punishable by a fine not exceeding \$500.00 dollars. Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. If a person is convicted of three or more distinct violations of this Plan, the Public Works Director (or a designee) shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur. Services discontinued under such circumstances shall be restored only upon advance payment of a re-connection charge, as established by a schedule of fees adopted by

the City Council. In addition, suitable assurance must be given to the Public Works Director (or a designee) that the same action shall not be repeated while the Plan is in effect. Compliance with this plan may also be sought through injunctive relief in the district court.

- (c) Any person, including a person classified as a water customer of the City of Missouri City, in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and 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, but any such person shall have the right to show that he/she did not commit the violation.
- (d) Any employee of the City of Missouri City, police officer, or other City employee designated by the Public Works Director may issue a citation to a person or entity he/she reasonably believes to be in violation of City Ordinance 0-19-08. 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 City's municipal court on the date shown on the citation for which the date shall not be less than 3 days nor more than 5 days from the date the citation was issued. The alleged violator shall be served a copy of the citation. Service of the citation shall be complete upon delivery of the citation to the alleged violator or 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. The alleged violator shall appear in the City's municipal court to enter a plea of guilty or not guilty for the violation of this Plan. If the alleged violator fails to appear in municipal court, a warrant for his/her arrest may be issued. A summons to appear may be issued in lieu of an arrest warrant. These cases shall be expedited and given preferential setting in municipal court before all other cases.
- (e) In the event of water allocation, appropriate security measures should be implemented by the affected City departments.
- (f) Any surcharge assessed to the City of Missouri City by the **GCWA** will be passed on to **All Customers** in a manner to be determined by the Groundwater Reduction Plan Oversight Committee.
- (g) The Groundwater Reduction Plan Oversight Committee will also review options for managing any credits assessed to the City of Missouri City by the **GCWA** as a result of the City's water conservation efforts during droughts. This Plan will be amended as needed to explain how the City will handle future credits that **GCWA** may assess.

Section XV. Variances

The Public Works Director (or a designee) may, in writing, grant a 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 feasible 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 reduction in water use; or
- (c) Other reasons at the discretion of the Public Works Director.

Persons requesting a variance or an exemption from the provisions of this Ordinance shall file a petition for variance, obtained from the Public Works Director (or a designee), with the City of Missouri City within 5 days after the Plan or a particular drought response stage has been invoked. All petitions for variances shall be reviewed by the Public Works Director (or a 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 of this Plan and the compliance date; and
- (h) Other pertinent information as required.

Variances granted by the City of Missouri City shall be subject to the following conditions, unless waived or modified by the Public Works Director (or a designee):

- (a) Variances granted shall be valid only for the granted limited time period during the current situation where Stages of conservation are declared, and shall expire on the designated date or the termination of Stage 2 (and a return to non-drought conditions) in the current sequence, whichever occurs first.
- (b) All variances granted shall be valid for a maximum of 90 days, at which time, if the City is still under a declared conservation period, the customer will have to re-apply for a new variance.

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

Section XVI. Severability

It is hereby declared to be the intention of the City Council of Missouri City that the sections, paragraphs, sentences, clauses, and phrases of this Plan are severable and, if any phrase, clause, sentence, paragraph, or section of this Plan shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this Plan, since the same would not have been enacted by the City Council of Missouri City without the incorporation into this Plan of any such unconstitutional phrase, clause, sentence, paragraph, or section.