

CITY OF MISSOURI CITY

DROUGHT CONTINGENCY PLAN

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Prepared By:



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CITY OF MISSOURI CITY, TEXAS DROUGHT CONTINGENCY PLAN

Section I Declaration of Policy, Purpose and Intent

In order to conserve the available water supply and/or to protect the integrity of 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 and wholesale 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 May 6, 2019 and May 20, 2019. 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. 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 shall immediately notify the public by means of announcements in local 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: 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.

- Limit showers to 2 to 5 minutes or less for Stage 2, 3, 4, and 5 drought responses.
- Turning off showers while lathering hair and body, and only turning on showers to rinse.
- Re-using cooking water to water plants, or to rinse/wash dishes
- Delay clothes washing until full loads are available.
- Utilize hand sanitizers rather than washing hands with potable water.
- Utilize dry shampoos and wet-wipes to clean your body and decrease the frequency of showering.
- Rainwater harvesting using rain barrels, with the water later used for landscape irrigation.

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	Wednesdays, Fridays, and Sundays
#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 VIII: Definitions

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

- **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**.
- **Groundwater Users** – customers in the City of Missouri City Groundwater Reduction Plan who utilize groundwater.
- **Surface Water Users** - customers in the City of Missouri City Groundwater Reduction Plan who utilize surface water. This water is generally provided by the **GCWA**
- **All Customers** – all customers in the City of Missouri City Ground Water Reduction Plan, including both Surface Water Users and Groundwater Users.
- **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.

- **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.
- **Aesthetic Water Use:** water use for ornamental or decorative purposes such as in fountains, reflecting pools, and water gardens.
- **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.
- **Retail Customer:** any person or entity purchasing drinking water from the City of Missouri City for use or consumption.
- **Wholesale Customer:** any entity purchasing potable water from the City of Missouri City for resale or redistribution.
- **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. Both potable and non-potable water may be used for this purpose.
- **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;
 - washing any motor vehicle, motorbike, boat, trailer, airplane or other vehicle, other than in a commercial car wash, if not necessary for the protection of public health, safety, and welfare;
 - washing any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
 - washing buildings or structures for purposes other than immediate fire protection;
 - flushing gutters or allowing water to run or accumulate in any gutter or street;
 - filling, refilling, or adding to any indoor or outdoor swimming pools or jacuzzi-type pools;
 - filling, refilling, or adding to any fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
 - using water hydrants for construction purposes or any other purposes other than firefighting, hydrant flushing and street cleaning; and
 - water loss because a responsible party has not repaired controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

Section IX: Drought Response Stage Criteria and Response Actions

The Public Works Director, or his/her designee shall monitor water supply and demand conditions and shall determine when conditions warrant initiation or termination of each stage of the Plan.

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, including the most recent 2011 extreme single-year drought for the Brazos River basin. Triggering criteria and response measures are also based on similar criteria and measures utilized by the **GCWA**.

Notification to **All Customers** of the initiation or termination of drought response stages will be made by email, mail, facsimile or telephone. Additional notifications will be made through the City's website and news media.

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.

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.

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

A Stage 1 Response may be triggered when the Public Works Director (or a designee) finds that the Response Conditions warrant the declaration of a Stage 1 Response. The Public Works Director (or a designee) will consider declaring a Stage 1 Response when at least one of the following Response Conditions is satisfied:

Response Conditions:

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.

A Stage 1 Response may be terminated by the Public Works Director (or a designee) when the Response Conditions that triggered the initiation of a Stage 1 Response no longer prevail.

Response Measures:

The goal for water use (from both surface water and groundwater sources) under Stage 1 is a reduction of **5%** of water use compared to **Baseline Historical Monthly Average Water Usage** as calculated by the City. 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 1 Response condition exists;
- Request voluntary reductions in water use by **All Customers** ; or
- Increase public awareness of drought or system conditions and measures to reduce demand.

Supply Management Measures:

- Monitor Surface water and Groundwater supplies and demands and notify users by press releases of conditions as appropriate;
- Notify **All Consumers** regarding the desire to reduce their usage on a voluntary basis 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 irrigation purposes, where feasible; or
- Explore alternative sources of potable water.

Stage 1 Voluntary Demand Reduction Measures

Issue press releases and/or published notices in all media, requesting practice of water conservation activities, 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, Thursdays, and Saturdays	Wednesdays, Fridays, and Sundays
before 10:00am OR after 8:00pm	before 10:00am OR after 8:00pm

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

A Stage 2 Response may be triggered when the Public Works Director (or a designee) finds that the Response Conditions warrant the declaration of a Stage 2 Response. The Public Works Director (or a designee) will consider declaring a Stage 2 Response when at least one of the following Response Conditions is satisfied:

Response Conditions:

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.

A Stage 2 Response may be terminated by the Public Works Director (or a designee) when the Response Conditions that triggered the initiation of a Stage 2 Response no longer prevail.

Response Measures:

The primary goal for water use (from both surface water and groundwater sources) under Stage 2 is a reduction of **10%** of water use compared to **Baseline Historical Monthly Average Water Usage** as calculated by the City. The secondary goal for Surface Water Usage under Stage 2 is a reduction of **10%** of water use compared to the **Historical Monthly Average Water Usage** as calculated by **GCWA** and approved by the City. Such a reduction in Surface Water Usage will allow the City to avoid surcharges imposed by **GCWA**. 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 2 Response condition exists;
- Request reductions in water use by **All Customers**; or
- Increase public awareness of drought or system conditions and measures to reduce demand.

Supply Management Measures:

- Monitor water supply (Surface Water and Groundwater) and demand and notify users by press releases of conditions as appropriate;
- Survey customers and develop water usage reduction plans; or
- Defer or delay City maintenance services (e.g. flushing of water mains, watering of City property).

Stage 2 Voluntary Demand Reduction Measures

#1	Limit Landscape Irrigation Use:	
	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
**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
	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 City Manager (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	Reduce usage of potable water to fill, refill, or add water to any ornamental fountain or pond for aesthetic or scenic purposes, except where necessary to support aquatic life	
#5	Limit water usage from fire hydrants for only firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare. Use of water from designated fire hydrants for construction purposes may be allowed under special permit from the Public Works Director (or a designee).	
#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 provided by the City of Missouri City (e.g. reclaimed, non-potable water) are not subject to this regulation	
#7	Suggest all restaurants avoid serving water to patrons except on patron request.	
#8	Limit Non-Essential Water Uses , including:	
	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)	
	Hydrant flushing (except for water system repairs), flushing gutters, or allowing water to run or accumulate in any street	
	Failure to repair controllable leaks within a reasonable period after having been given notice directing the repair of such leaks	

Section IX.3 - Stage 3 Response (Severe Water Shortage; TCEQ “Priority” Level)

A Stage 3 Response may be triggered when the Public Works Director (or a designee) finds that the Response Conditions warrant the declaration of a Stage 3 Response. The Public Works Director (or a designee) will consider declaring a Stage 3 Response when at least one of the following Response Conditions is satisfied:

Response Conditions:

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.

A Stage 3 Response may be terminated by the Public Works Director (or a designee) when the Response Conditions that triggered the initiation of a Stage 3 Response no longer prevail.

Response Measures:

The primary goal for water use (from both surface water and groundwater sources) under Stage 3 is a reduction of 15% of water use compared to **Baseline Historical Monthly Average Water Usage** as calculated by the City. The secondary goal for Surface Water Usage under Stage 3 is a reduction of 15% of water use compared to the **Historical Monthly Average Water Usage** as calculated by **GCWA** and approved by the City. Such a reduction in Surface Water Usage will allow the City to avoid surcharges imposed by GCWA. 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.

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/pws-drought-contingency-plan-reporting-form. Assistance in making notifications may be obtained via e-mail to wcp@tceq.texas.gov or via phone at 512-239-4691.

General Measures:

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

Supply Management Measures:

- Monitor water supply (Surface Water and Groundwater) and demand and notify users by press releases of conditions as appropriate.
- Meet with customers and develop water usage reduction plans.
- 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.
- Explore and initiate usage alternative sources of potable water.

Stage 3 Mandatory Demand Reduction Measures

#1	Continue ALL Stage 2 Demand Reduction Measures
#2	Prohibit usage of hose-end sprinklers and automatic sprinkler systems at all times. Limit Landscape Irrigation Usage to use of hand-held hoses, hand-held buckets, or drip irrigation only. .
#3	Prohibit water use for construction purposes from designated fire hydrants, unless written permission is obtained from the Public Works Director (or a designee).
#4	Prohibit watering of golf course tees unless the golf course utilizes a water source other than that provided by the City (e.g. reclaimed, non-potable water)

Section IX.4: Stage 4 Response (Extreme Water Shortage; TCEQ “Emergency” Level)

A Stage 4 Response may be triggered when the Public Works Director (or a designee) finds that the Response Conditions warrant the declaration of a Stage 4 Response. The Public Works Director (or a designee) will consider declaring a Stage 4 Response when at least one of the following Response Conditions is satisfied:

Response Conditions:

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.

A Stage 4 Response may be terminated by the Public Works Director (or a designee) when the Response Conditions that triggered the initiation of a Stage 4 Response no longer prevail.

Response Measures:

The primary goal for water use (from both surface water and groundwater sources) under Stage 4 is a reduction of 20% of water use compared to **Baseline Historical Monthly Average Water Usage** as calculated by the City. The secondary goal for Surface Water Usage under Stage 4 is a reduction of 20% of water use compared to the **Historical Monthly Average Water Usage** as calculated by **GCWA** and approved by the City. Such a reduction in Surface Water Usage will allow the City to avoid surcharges imposed by GCWA. 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.

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/pws-drought-contingency-plan-reporting-form. Assistance in making notifications may be obtained via e-mail to wcp@tceq.texas.gov or via phone at 512-239-4691.

General Measures:

- Notify **All Customers** that a Stage 4 Response condition exists;
- Require reductions in water use by **All Customers**;
- 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
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- Meet with customers and develop water usage reduction plans
- 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.
- Aggressively explore alternative sources of potable water

Stage 4 Mandatory Demand Reduction Measures

#1	Continue ALL Stage 3 Demand Reduction Measures	
#2	Prohibit usage of hose-end sprinklers and automatic sprinkler systems at all times. Limit Landscape Irrigation Usage to use of hand-held hoses, hand-held buckets, or drip irrigation only:	
	For Customers with odd street numbers	For Customers with even street numbers:
	Tuesdays & Thursdays	Wednesdays & Fridays
	before 8:00am OR after 8:00pm	before 8:00am OR after 8:00pm
#3	Prohibit use of potable water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle unless the wash is occurring at a commercial car wash or commercial service station and cleaning the vehicle is necessary to maintain public health, safety and welfare. Any such vehicle washes may only occur between 6:00am and 10:00am, or between 6:00pm and 10:00pm.	
#4	Prohibit the filling, refilling, or adding of water to swimming pools, wading pools, and Jacuzzi-type pools:	
#5	Prohibit the operation of any ornamental fountain or pond for aesthetic or scenic purposes, except where necessary to support aquatic life of where such fountains or ponds are equipped with a recirculation system (approved for use by the Public Works Director or a designee).	

Under Stage 4 response conditions, the Public Works Director (or a designee) may suspend pending 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.

Section IX.5: Stage 5 - Water Emergency Response (Emergency Water Shortage; TCEQ “Emergency” Level)

A Stage 5 Response may be triggered when the Public Works Director (or a designee) finds that the Response Conditions warrant the declaration of a Stage 5 Response. The Public Works Director (or a designee) will consider declaring a Stage 5 Response when at least one of the following Response Conditions is satisfied:

Response Conditions:

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.

A Stage 5 Response may be terminated by the Public Works Director (or a designee) when the Response Conditions that triggered the initiation of a Stage 5 Response no longer prevail.

Response Measures:

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. 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/pws-drought-contingency-plan-reporting-form. Assistance in making notifications may be obtained via e-mail to wcp@tceq.texas.gov or via phone at 512-239-4691.

General Measures:

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

Supply Management Measures:

- Discontinue all water system operations and correct the emergency situation to insure a safe supply of 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 if necessary, published 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.
- Aggressively explore alternative sources of potable water

Stage 5 Mandatory Demand Reduction Measures

#1	Continue ALL Stage 4 Demand Reduction Measures
#2	Prohibit Landscape Irrigation Water Use at all times
#3	Prohibit use of potable water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle, unless written permission is provided by the Public Works Director (or a designee).

Water deliveries to wholesale water providers will be allocated on a pro-rata basis as provided under the Texas Water Code §11.039, following the water allocation plan developed between the City and the wholesale water provider.

Section X: 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 storage tanks/reservoirs. Schedules of water availability in different areas of the City will be announced by press releases to all media, 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).

Water distribution to wholesale accounts: There will be a provision in every wholesale water contract entered into or renewed by the City 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 XI: Enforcement

- (a) No person shall knowingly or intentionally allow the use of water from the City of Missouri City for 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 public health and sanitation of the City.
- (b) Any person who violates this Plan is guilty of a misdemeanor and shall be punishable by a fine not exceeding \$2,000.00 dollars and a surcharge of 20% applied to their current water bill. Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. 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 City Manager (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) The Public Works Director (or a designee) shall assume that the billing name for a water customer account is the person responsible for any violations to this Plan, and shall be presumed to be the violator, unless that person can submit tangible proof that another person or entity bears responsibility for the property.
- (d) An appropriate employee of the City of Missouri City may issue a citation to a person or entity in violation of this Ordinance. The citation shall be prepared in duplicate and shall contain the name and address of the violator, if known, and the offense charged. 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.
- (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. For the remainder of 2019, the City intends to avoid **GCWA** surcharges through the use of groundwater credits from the Fort Bend Subsidence District. The Groundwater Reduction Plan Oversight Committee will review other options regarding **GCWA** surcharges and will amend this Plan as needed to explain how the City will handle future surcharges that **GCWA** may assess.
- (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 XII: Variances

The Public Works Director (or a designee) may, in writing, grant a 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 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.

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.
- (h) Other pertinent information.

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 1 (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 XIII: Severability

It is hereby declared to be the intention of the City Council of Missouri City that the sections, paragraphs, sentences, DCP City of Missouri
City PWSID 0790207

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.

