

**CITY OF ODESSA
WATER CONSERVATION
AND
DROUGHT CONTINGENCY PLAN**

SECTION 1 – INTRODUCTION

The Water Conservation and Drought Contingency Plan (Plan) for the City of Odessa is established in accordance with the requirements of Title 30, Texas Administration Code, Chapter 288 and submitted to the Texas Commission on Environmental Quality. This document will be used by the City of Odessa in its water conservation efforts and to address various levels of water shortages.

The Plan is adopted by Ordinance of the City of Odessa.

SECTION 2 – ADMINISTRATION

The Director of Utilities is designated as the Administrator for the implementation and enforcement of the City of Odessa Water/Conservation and Drought Contingency Plan and is authorized to adopt any necessary administrative regulations and interpret and enforce the requirements of the Plan.

SECTION 3 – SERVICE AREA

The service area for the City of Odessa is within the Region F water planning area. A copy of this Plan has been provided to the Region F Planning Group.

SECTION 4 – APPLICATION

The provisions of this Plan shall apply to all persons, customers, and property utilizing water provided by the City of Odessa as treated by the Water Treatment Plant or provided as un-treated raw water delivered through the CRMWD transmission system. Other water sources, such as private wells or reclaimed water, as provided by the City of Odessa's Bob Derrington Plant are outside of the scope of this plan. The terms "person" and "customer" as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

SECTION 5 – WATER CONTRACTS

A. Wholesale Water Contracts

All contracts for the sale of water which are entered into, extended, or renewed after the adoption of this Plan will require the wholesale customer to develop, adopt and implement a water conservation plan which satisfies the requirements set by the State of Texas and this

City's Plan. Wholesale water contracts shall prohibit the resale of water to other public water utilities.

B. Other Water Contracts

Contracts with other public utilities, industrial districts, or customers outside the City limits will include provisions requiring the customers served by these contracts to meet the requirements of the City's Water Conservation and Drought Contingency Program.

SECTION 6 – DEFINITIONS

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

Administrator: Director of Utilities or his/her designee.

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 or alternative uses.

Customer: any person, company, entity, or organization using water supplied by the City of Odessa.

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.

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 residential and commercial lawns, gardens, golf courses, parks, rights-of-way and medians.

Non-essential water use: water uses that are neither 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 as 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 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.

Reclaimed Water: Wastewater effluent, treated and discharged from the Bob Derrington Water Reclamation Plant intended for effluent reuse as defined by the TCEQ.

SECTION 7 – WATER CONSERVATION PLAN

I. INTRODUCTION

This 2011 revision of the City of Odessa Water Conservation Plan (Plan) establishes water conservation measures, encourages water customers to conserve available water supplies, and monitors the effectiveness of the Plan. The Plan is submitted to the Texas Water Development Board as required by Section 13.146 of the Texas Water Code.

II. SYSTEM PROFILE

A. SOURCE WATER

The City of Odessa receives all of its water, untreated, from the Colorado River Municipal Water District (CRMWD). The majority of the water is surface water from Lake Ivie. Other surface water sources include Lake Thomas and Lake Spence when available. When needed, well water can be delivered to supplement surface water supplies. Most well water is received from Ward County wells with minimal amounts contributed from wells in Ector and Martin Counties.

The City does not operate any reservoirs or develop any of its source water. Under the contract with CRMWD, the District is responsible for providing the needed water resources for Odessa. At the request of the District, the City implements the conditions of CRMWD's Water Conservation and Drought Contingency Plan.

B. WATER TREATMENT

The City of Odessa operates a conventional water treatment plant using coagulation, flocculation, sedimentation, filtration, disinfection and pH adjustment for treatment of the surface water. The plant's rated capacity is 65 MGD based on the firm capacity of the filters which was increased in 2008-2009 with the renovation of four filters.

In addition, approximately 16 MGD of Ward County well water can be brought into the plant separate from the surface water. When delivered in this manner, only disinfection and pH adjustment is required

The maximum daily volume of water treated since 2000 has not exceeded 40 MGD; therefore, there is no concern regarding current plant capacity.

C. WATER SERVICE POPULATION CHARACTERISTICS.

The City of Odessa provides potable water to customers inside the city limits as well as the Ector County Utility District, several industrial districts, and by contract to individual customers outside the city limits. In 2009, the estimated population served by Odessa's public water system was 122,940.

The following is a summary of the accounts served according to customer classification:

Single Family	33,094
Multi-Family	340
Commercial	3,600
Industrial	18

D. WASTEWATER TREATMENT

Odessa provides wastewater treatment to its citizens, several industrial district customers, and by individual contracts to customers outside the city limits. Approximately 2 MGD of untreated wastewater is provided to the Gulf Coast Authority industrial wastewater treatment plant to assist in the treatment of their wastewater. This wastewater is diverted directly from the wastewater collection system. All other wastewater flow is treated at the Bob Derrington Water Reclamation Plant through extended aeration and single stage nitrification treatment processes. This treatment is followed by clarification, disinfection and filtration. Treated water is either discharged to the Monahans Draw under the conditions of TCEQ Wastewater Discharge Permit No. WQ10238-002 or distributed to reuse customers. Sludge produced by the treatment process is dewatered and taken to the landfill for final disposal.

The treatment plant is rated at 12.7 MGD. The plant currently receives between 6.0 to 7.0 MGD dry weather flow rates; therefore, treatment capacity is not an issue.

E. ECTOR COUNTY UTILTIY DISTRICT

The City of Odessa has provided water to the District since approximately 1976. During this time period, a transfer meter has not been available to individually monitor the total amount of water which was provided to the District. Tracking of water has been based solely on the individual meters of the District customers. Due to the manner in which the monitoring of water has been conducted previously, the calculations associated with this Plan and related reports are based on the data derived from the usage of both City and District customers. Plans are currently under way to install a master meter site which will provide for a single reading for the District, which will simplify water loss calculations.

III. WATER REDUCTION GOALS

A. GALLONS PER CAPITA PER DAY (gpcd) REDUCTION

The currently required method for computing and tracking usage is gallons-per-capita-per-day (gpcd). The City of Odessa will strive to reduce the gpcd usage by 0.5 gpcd each year for the next 10 years. The beginning gpcd baseline, established in 2009 (182.0 gpcd) is based on the average gpcd for the last 5 years. This projection may have to be adjusted based on new or changing industrial users or population, trends in weather, or available water resources.

B. WATER LOSS REDUCTION

Over the next 10 years, the City will strive to maintain it's calculated water loss at less than 12%.

IV. BEST MANAGEMENT IMPLEMENTATION SCHEDULE

Description	Currently Implemented	Improve Existing Program	Implement by 2010	Implement by 2015	Implement by 2020
System Water Audit and Water Loss	√				
Water Conservation Pricing	√	2010			
Addressing Nonpayment and Theft Issues	√				

Prohibition of Wasting Water			√		
School Education			√		
Plumbing Code Enforcement					
Landscape Irrigation Conservation	√				
Golf Course Conservation	√				
Park Conservation	√				
Athletic Field Conservation					√
Metering of all Connections	√				
Meter Replacement and Maintenance			√		
Wholesale Agency Assistance Program			√		
Effluent Reuse	√				
Public Information	√	2010			
Leak Detection and Line Rehabilitation	√				

B. SYSTEM WATER AUDIT

The City of Odessa will continue to annually conduct the water loss audit calculations published in the TWDB publication “Water Loss Audit Manual for Texas Utilities”. The results of this annual audit will be used to determine the effectiveness of the water conservation program and whether adjustments to the program need to be made.

C. WATER BILLING

1. Water Conservation Pricing

Currently, the City of Odessa uses a uniform block water rate to encourage water conservation. During the annual development of the budget, revenues collected from the rates are evaluated to ensure sufficient funds are available to meet financial obligations, capital requirements, and operation and maintenance needs. The current rate structures per 1000 gallons are listed in the tables below. There is also a minimum charge for the first 2000 gallons based on the meter size.

FY 2011 Inside City Limits Rates	
Residential	\$3.48
Residential (Senior/Disability)	\$3.09
Multi-Family	\$3.35
Commercial	\$3.49
Industrial	\$3.29

Outside City Limits	
Residential	\$5.22
Residential (Senior/Disability)	\$4.64
Multi-Family	\$5.03
Commercial	\$5.25

The City is currently evaluating the implementation of an increasing block rate structure to further encourage water conservation.

2. Cut Off For Unpaid Bills

Customers who do not pay for water service have their water service terminated approximately 20 days after the original due date. Service is not reactivated until payment arrangements are made.

3. Water Theft

When water theft is determined, service is immediately disconnected and will not be reinstated until all fines and fees are paid.

D. PROHIBITION OF WASTING WATER

The City of Odessa is considering an ordinance and enforcement strategy for the purpose of restricting the wasting of water by its discharge into the streets. Imposing hours of irrigation for automated irrigation systems will also be considered.

E. PLUMBING CODE ENFORCEMENT

The City enforces the 2009 International Plumbing Code which requires installation of the following water conserving fixtures in new construction.

Fixture	Maximum Flow Rate
Lavatory, private	2.2 gpm at 60 psi
Lavatory, public, (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Shower head	2.5 gpm at 80 psi
Sink faucet	2.2 gpm at 60 psi
Urinal	1.0 gallon per flushing cycle
Water closet	1.6 gallons per flushing cycle

F. SCHOOL EDUCATION PROGRAM

Annually, the City of Odessa provides book covers with water conservation messages to all of the children in the school system. We are currently working with the Colorado River Municipal Water District to provide the Major Rivers curriculum in our elementary schools. We also make staff available to assist in teaching the curriculum or making water conservation related presentations at local schools.

Tours of the plant and water education brochures suitable for distribution to school children are also available.

G. Landscape Irrigation Conservation

In 2008, the City of Odessa adopted minimum standards for installation of irrigation systems within the City and its extraterritorial jurisdiction. This ordinance requires irrigation system designs which must be submitted to the City for review prior to the installation of the system. New irrigation systems must be designed, installed, maintained and repaired in a manner which will promote water conservation. The ordinance requires the irrigation system to:

- Operate at pressures provided by the distribution system.
- Limit water spray over impervious materials.
- Have separate zones based on plant material type, topographic features, soil conditions and hydrological requirements.
- Include rain or moisture shutoff device. Repairs to existing automatic irrigation systems require replacement with a controller which has a rain or moisture shutoff device.

Beginning in 2010, a licensed irrigator or licensed irrigator technician must be onsite during the installation of the irrigation system unless the system is being installed by the home owner. Failure to comply with the requirements of the ordinance may result in a fine of up to \$2000 per day.

H. GOLF COURSE CONSERVATION

The three golf courses located within the city limits are irrigated with reclaimed water. Raw or potable water is only available to the golf courses if reclaimed water is unavailable.

I. PARKS CONSERVATION

The Parks Department has converted all of its parks irrigation systems, except one, from manual operation to automatic irrigation systems. The last park is currently under design to convert the irrigation system to an automated system. In addition, the

following conservation related issues have been or will be incorporated into our parks operations:

- All irrigation systems will be equipped with controllers that would allow future conversion to a master control irrigation system.
- Drip irrigation systems will be located in all planting beds.
- Plans are under development to convert all bubble systems to drip.
- Installation of low projectory irrigation heads at the perimeter of the parks sites to reduce drift. Future irrigation systems will be designed to include the low projectory irrigation heads along the parks perimeter.
- Irrigation schedules for automated sites are programmed to irrigate at night.
- Plant materials indigenous to Odessa's climate and soil conditions are used at the park sites.

One detention pond is located within the Memorial Gardens Park. When the water level in the pond recedes during drought conditions, reuse water is used to supplement the runoff water.

The UTPB Park is irrigated with reuse water or raw water when reuse is unavailable. The Memorial Gardens Park is irrigated with a combination of reuse and runoff water.

J. ATHLETIC FIELD CONSERVATION

All athletic fields operated by the Parks Department are equipped with automated sprinkler systems. The athletic fields at the UTPB Park are irrigated with reuse water rather than the potable water supply.

K. METERING OF ALL CONNECTIONS

Master meters are currently installed at the Water Treatment Plant and are calibrated monthly. An accuracy of plus or minus 5 % is required for these meters.

The City has universal metering of all customer connections, including City-owned and operated facilities. All new construction is also required to be metered. The type of meter installed will be evaluated to ensure an appropriate meter to satisfy the customer's requirements.

L. METER REPLACEMENT AND MAINTENANCE

The City is currently evaluating the replacement of 3" and larger meters. As a part of the proposed meter replacement program, the meter installation will include the installation of bypasses and test portals which will allow testing of the meters. After installation of the large meters, the following test schedule will be implemented:

6" and larger meters Annually

3 and 4" meters	Once every 4 years
1 ½ and 2 meters	Once every 10 years

In addition, 3/4 and 1" meters will be on a replacement schedule of 10 years or 1,200,000 gallons.

The above testing and replacement frequencies may be adjusted based on factors such as suspected problems with a meter or meter evaluations which indicate the frequency should be increased or decreased.

The City of Odessa is currently reviewing proposals from vendors for the installation of replacement of manually-read customer billing meters with AMR meters, which will have the capability of closer scrutiny of customer use, which includes leak detection. It is anticipated at least a portion of the total metering system will be converted with new meters, transmitters, and monitoring/billing software.

M. WHOLESALE AGENCY ASSISTANCE PROGRAM

In the wholesale contract with the Ector County Utility District, the District is required by contract to implement a Water Conservation Program which is as stringent as the one adopted by the City of Odessa.

The City currently bills each customer in the District for the water used. Under the wholesale contract, transfer meters to measure the water delivered into the meter will be installed and used to bill wholesale water deliveries. With this change in the billing for the District, the District will be able to track their unaccounted for water and have incentive to resolve the situations contributing to lost water.

The City will make its public and school education programs available to the District's customers.

N. REUSE WATER PROGRAM

The City has a very active reuse program. Customers are encouraged to participate in the reuse program by provision of high quality water sold at a cost which is considerably less than potable water. The customer base includes:

Industrial Customers:

- Power plant
- Petrochemical plant*

Irrigation Customers:

- University of Texas of the Permian Basin*

UTPB Park
Memorial Gardens
Odessa Country Club*
Links Golf Course*
Ratliff Golf Course*
Texas Department of Transportation Right of Way*

Residential Customer

Vista La Paz (dual distribution system for lawn irrigation and decorative fountain)

*Original customers

Virtually one hundred per cent (100%) of the effluent produced by the City's wastewater treatment plant is contractually committed to reuse customers. Since much of the reuse water is provided for irrigation purposes, the amount of water actually used is highly dependent on the season and rainfall. Therefore, effluent available for reuse is generally discharged daily. Due to the high quality and lower cost of the reuse water, other potential customers have requested the reuse water. Since the water was generally available, the City established contracts to offer the available effluent to these additional reuse customers as well as allow all customers to use water above their contracted amount when it is available.

In addition to the irrigation and industrial reuses, the City of Odessa, as a member city of the Colorado River Municipal Water District (CRMWD), is participating in the construction of a water treatment facility in Big Spring which will provide additional treatment to their effluent so it can be used for indirect reuse and further extend the water resources of CRMWD. Odessa has also entered into a contract with CRMWD which will allow them to use any available reuse water for a similar indirect reuse project should it become feasible to move forward with the project.

In 2010, 459,972,300 gallons of Odessa's reuse water replaced available potable water supplies for non-potable uses.

O. PUBLIC INFORMATION

The City of Odessa provides an annual mail out to all customers which contains indoor and outdoor water conservation information. In addition, each new water customer is given a water conservation brochure.

City staff is available to make water conservation presentations to organizations upon request.

The local Master Gardeners, Keep Odessa Beautiful organization, and the Texas Agricultural Extension Agent have also been very helpful in providing information to the City and its customers on outdoor water conservation. We will continue to work with these groups to improve our public outreach in these areas.

The City provides conservation information through its website. We will work to update the website and its information and publicize its availability through the government access channel and other means.

P. LEAK DETECTION AND REHABILITATION

1. Customer Leaks

Through its customer billing system, the City of Odessa monitors water consumption, inspects meters which vary significantly from previously established norms, and assists the customer in determining a leak in their system.

2. System Leaks

Notifications of leaks are taken 24 hours each day. Each leak is investigated as soon as possible, and repaired if the leak is on the City line.

3. Distribution System Rehabilitation Program

Due to aging infrastructure within Odessa's distribution and collection system, the City of Odessa's Council has approved approximately 50 million dollars for the rehabilitation of the systems (including large meter change out previously discussed). The City employed an outside consultant to assist in the completion of an infrastructure study which will help determine the priority which should be set in the replacement or rehabilitation of lines. In addition, they studied whether flow patterns in the distribution system can be upgraded to improve water quality. As a part of the study, the consultant will also recommend and assist in the implementation of transmission line inspections.

Through the replacement of the distribution lines, it is anticipated many currently undetermined leaks will be resolved. In addition, the water flushed through the system to maintain water quality and resolve customer complaints will be reduced

SECTION 8 – DROUGHT CONTINGENCY PLAN

I. INTRODUCTION

This revision of the Drought Contingency Plan is established to protect the integrity of water supply facilities including domestic uses, sanitation and fire protection, and to protect and preserve public health, welfare and safety and minimize the adverse impacts of water supply shortages or other emergency conditions. Water supplies which fall outside of the raw or potable water supply as furnished by the City of Odessa or CRMWD fall outside the scope of this Plan; as does the use of water from private water wells. The provision of reclaimed water by the City of Odessa's Bob Derrington Plant is managed as a separate item and its use is governed outside of this Plan. The Plan is submitted to the Texas Commission on Environmental Quality in compliance with the requirements of Title 30, Texas Administrative Code, Chapter 288.

Water uses regulated or prohibited under this Drought Contingency Plan (the Plan) are considered to be nonessential and continuation of these uses when the Plan is implemented will constitute a waste of water and will subject the offender to the penalties allowed in Section XI.

II. PUBLIC INVOLVEMENT

The City of Odessa provided opportunity for public input to this Plan by a Public Hearing.

III. PUBLIC EDUCATION

- A. The City of Odessa will periodically provide the public with information about the Plan including the conditions under which each stage of the Plan will be initiated and terminated and the drought response measures to be implemented in each stage. This information will be provided by means of a mailout and posting on the City's website.
- B. When trigger conditions requiring mandatory restrictions appear to be approaching, the public will be notified through the local newspaper, media, the City's website and the government access channel.
- C. When the trigger conditions have passed, the public will be notified through the local newspaper, media, the City's website and the government access channel that the drought contingency measures can be abated or reduced. Measures will be outlined for any reduced measures.
- D. Through the period of the trigger condition, regular information will be provided to the public to inform them of the cause of the condition and the requirements for water reduction.

IV. AUTHORIZATION

The Administrator or his/her designee is authorized to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety or welfare, which shall include the authority to designate irrigation schedules on designated days and hours. The Administrator also has the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

V. CRITERIA OF INITIATION AND TERMINATION OF DROUGHT STAGES

The Administrator or his/her designee shall monitor the water supply based on information obtained from CRMWD and demand conditions on frequency sufficient to determine if the trigger conditions are met to initiate or terminate each stage of the Plan.

VI. TRIGGERS

A. MILD CONDITIONS

1. Requirements for initiation

Daily water demands exceed 90% of treatment plant's capacity to produce or pump water for three consecutive days.

2. Requirements for termination

All triggering events have ceased to exist for a time period deemed appropriate by the Administrator.

B. MODERATE CONDITIONS

1. Requirements for initiation

Daily water demands exceed 95% of treatment plant's capacity to produce or pump water for three consecutive days.

2. Requirements for termination

All triggering events have ceased to exist for a time period deemed appropriate by the Administrator.

C. SEVERE CONDITIONS

1. Requirements for initiation

Daily water demands exceed 98% of treatment plant's capacity to produce or pump water for three consecutive days or the moderate conditions have remained in effect for an extended period, as determined by the Administrator.

2. Requirements for termination

All triggering events have ceased to exist for a time period deemed appropriate by the Administrator.

D. EMERGENCY CONDITIONS

1. Requirements for initiation

Emergency conditions can be invoked by the Administrator under the following conditions:

- a. Extended duration of severe conditions.
- b. Extreme operational conditions such as major line breaks, pump or system failures which cause loss of capability to provide normal water service.
- c. Natural or man-made contamination of the water source(s).

2. Requirements for termination

All triggering events have ceased to exist for a time period deemed appropriate by the Administrator.

E. OTHER TRIGGERS

1. Requirements for initiation

The Administrator can take the following conditions into consideration in determining if any of the trigger stages should be implemented:

- a. Water distribution pressures.
- b. Imminent weather conditions.
- c. Treated water storage reservoir levels.
- d. Treatment and transmission facilities conditions.
- e. Request of the Colorado River Municipal Water District due to limitation in available water supplies or their transmission facilities.
- f. Other conditions deemed appropriate by the Administrator.

2. Requirements for termination

All triggering events have ceased to exist for a time period deemed appropriate by the Administrator.

VII. NOTIFICATION

A. PUBLIC

The Administrator will notify the public that any of the above trigger conditions have been implemented and the actions to be taken by one or more of the following means:

1. Posting in the Odessa American.
2. Public service announcements.
3. TV and radio news stories.
4. Posting on City's website and government access channels.
5. Other means as deemed appropriate.

B. ADDITIONAL NOTIFICATIONS

1. The Administrator will notify the following entities or individuals as deemed necessary based on the conditions:
 - a. Mayor and Council
 - b. City Manager
 - c. Fire Department
 - d. Emergency Management Coordinator
 - e. Critical water user list
 - f. Major water users
 - g. Ector County Utility District, if applicable
 - h. TCEQ

Note: The TCEQ must be notified whenever mandatory restrictions are imposed.

2. The Administrator will determine the most effective means of notifying the above individuals or entities but the use of phone calls, letters, emails or faxes may be used.

VIII. TRIGGER CONDITION RESPONSES

A. MILD CONDITIONS

1. Target

Achieve a voluntary 1 to 5 percent reduction in daily water demand.

2. Best Management Practices

- a. Raise public awareness of need to conserve water supply.

- b. Request voluntary reductions in nonessential water use.

3. Water Use Restrictions

- a. Inform public through the news media that the trigger condition has been met and customers should look for ways to voluntarily reduce water use and discontinue water use for non-essential purposes.

- b. Notify major industrial users of the situation and request voluntary water use reductions.

- c. Request that water customers voluntarily limit irrigation of landscaped areas to hours outside of 10:00 am to 6:00 pm. Designated watering days may also be established by the Administrator.

B. MODERATE CONDITIONS

1. Target

Achieve a 5 to 10% reduction in daily water demand.

2. Best Management Plan

- a. Implement mandatory restrictions on nonessential water uses.

- b. Reduce fire hydrant flushing except where needed to maintain water quality.

3. Water Use Restrictions

Since outside irrigation and certain other high uses may comprise 50% or more of total water use during the irrigation season and reductions thereof may in result in reaching the targeted reductions during the irrigation season, the administrator shall have the flexibility of initiating all or part of the following restrictions as deemed necessary for moderate conditions.

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

- a. Irrigation of landscaped area with hose-end sprinklers and automatic irrigation systems shall be limited to days designated by the Administrator. No irrigation is allowed during the hours of 10:00 am to 6:00 pm on any day. This shall apply to the irrigation of all outdoor areas. Large tract irrigation, consisting of two (2) or more acres of a single property, shall be limited to 10-hour watering periods on designated days in order to allow the completion of required irrigation cycles.

The use of reclaimed water shall be exempt from this regulation. Those entities using reclaimed water for irrigation are subject to the supply management as determined by separate contractual and other limitations outside of this Plan.

- b. 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 City of Odessa.
- c. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle must be done with a hand-held bucket or hose equipped with a positive shutoff nozzle or other means to restrict flow when not immediately needed. Such washing is prohibited except on designated water days. No washing is allowed during the hours of 10:00 am to 6:00 pm on any day. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Washing of vehicles by so-called "mobile-wash" vendors is also allowed contingent upon that activity being in compliance with all other applicable rules and local laws. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.
- d. 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, unless determined to be essential by State or Local Rule/Law;
 - 4) flushing gutters or permitting water to run or accumulate in any gutter or street; and
 - 5) failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).
- e. All restaurants are prohibited from serving water to patrons except upon request of the patron.
- f. No filling, refilling, or addition can be made between the hours of 10:00 am to 6:00 pm.

C. SEVERE CONDITIONS

1. Target

Achieve a 10 – 15% reduction in daily water demand.

2. Best Management Practices

- a. Implement ban on certain types of non-essential water uses.
- b. Consider implementation of a surcharge for excess water usage.
- c. Discontinue all fire hydrants flushing except where critical to maintaining water quality.
- d. Reduce or, if necessary, discontinue irrigation of public landscaped areas irrigated with the raw or potable water sources.

3. Water Use Restrictions

- a. Irrigation of landscaped areas shall be prohibited except on days and hours designated by the administrator. . All watering must be by hand-held hoses, buckets or drip irrigation. Use of permanently installed automatic sprinklers is prohibited at all times.

- b. At the discretion of the Administrator, due to continued or extremely severe conditions, watering of all landscaped areas may be prohibited.
- c. Public water use for the following non-essential uses will be prohibited:
 - 1) Street washing;
 - 2) Filling swimming pools, wading pools, Jacuzzi-type pools, or other recreational-type pools;
 - 3) Operation of any ornamental fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life.
 - 4) Washing of cars and other vehicles except required for public health and safety;
 - 5) Construction uses from fire hydrants.
- d. Other limits for water use for industrial, commercial, and residential customers as deemed necessary by the Administrator.

D. EMERGENCY CONDITIONS

1. Target

Reduce water usage as deemed necessary by the Administrator to alleviate the Emergency Conditions, maintain fire flows, and/or State requirements for the maintenance of distribution systems.

2. Best Management Practices

Implement emergency response procedures appropriate for the type and anticipated duration of the emergency.

3. Water Use Restrictions

- a. Contact all large water users to require that they cease all landscape irrigation and reduce all other water uses as much as possible.
- b. Implement Severe Condition restrictions as needed and practical in time frame of emergency for all other customers.
- c. Implement Emergency Response Program as appropriate.

E. WATER ALLOCATIONS

In the event a water shortage threatens public health, safety and welfare, the City Council may implement a surcharge system for water usage over specified volume for residential, commercial and industrial customers.

IX. UPDATE OF TRIGGER CONDITIONS

The City of Odessa will periodically examine its water production requirements and its ability to maintain these requirements to determine if trigger conditions should be revised. If it is determined that trigger conditions need to be revised, the Texas Commission on Environmental Quality will be contacted.

X. VARIANCE

The Administrator or his/her 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 or hardship 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.
- C. Persons requesting an exemption from the provisions of the Plan shall file a petition for variance with the City of Odessa within 5 days after the Plan or a particular drought response stage has been invoked. All petitions for variances shall be reviewed by the Administrator or his/her designee and shall include the following:
 - 1. Name and address of the petitioner(s).
 - 2. Purpose of water use.
 - 3. Specific provision(s) of the Plan from which the petitioner is requesting relief.
 - 4. 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 Plan.
 - 5. Description of the relief requested.
 - 6. Period of time for which the variance is sought.

7. 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.
 8. Other pertinent information.
- D. Variances granted by the City of Odessa shall be subject to the following conditions, unless waived or modified by the Administrator or his/her designee:
 - E. Variances granted shall include a timetable for compliance.
 - F. Variance can be terminated if the terms of the variance are not met by the customer.
 - G. Variances granted shall expire when the Plan is no longer in effect.
 - H. No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

XI. ENFORCEMENT AND PENALTIES

- A. No person shall knowingly or intentionally allow the use of water from the City of Odessa for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this, the Odessa Water Conservation and Drought Contingency Plan, 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 Administrator, in accordance with provisions of this Plan.
- B. Any person, including a person classified as a water customer of the City of Odessa, 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. 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, but 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.
- C. Any person who violates this Plan is guilty of a misdemeanor and, upon conviction shall be punished by a fine of not more than Two Thousand and no/100 Dollars (\$2,000). 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 Administrator 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 payment of a reconnection charge, established by City policy, and any other costs incurred by the City of Odessa in discontinuing service and all assessed fines. In addition, suitable assurance must be given to the Administrator 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.