

Chapter 8 – Water Shortage Contingency Plan

8.1 – General Description

Water Shortage Contingency Plan deals with the imposition of water use constraints on end users in order to assure sustainability under stressful emergency and long-term water shortage conditions.

8.2 – Water Supply Reliability Analysis

Water Code Section 10632(a)(1)

The analysis of water supply reliability conducted pursuant to Section 10635.

The Water Service Reliability Assessment is discussed in Section 7.2.

8.3 – Annual Water Supply and Demand Assessment Procedures

Water Code Section 10632(a)(2)

The procedures used in conducting an annual water supply and demand assessment that include, at a minimum, both of the following:

(A) The written decision-making process that an urban water supplier will use each year to determine its water supply reliability.

(B) The key data inputs and assessment methodology used to evaluate the urban water supplier's water supply reliability for the current year and one dry year, including all of the following:

(i) Current year unconstrained demand, considering weather, growth, and other influencing factors, such as policies to manage current supplies to meet demand objectives in future years, as applicable.

(ii) Current year available supply, considering hydrological and regulatory conditions in the current year and one dry year. The annual supply and demand assessment may consider more than one dry year solely at the discretion of the urban water supplier.

(iii) Existing infrastructure capabilities and plausible constraints.

(iv) A defined set of locally applicable evaluation criteria that are consistently relied upon for each annual water supply and demand assessment.

(v) A description and quantification of each source of water supply.

Water Code Section 10632.1.

An urban water supplier shall conduct an annual water supply and demand assessment pursuant to subdivision (a) of Section 10632 and, on or before July 1 of each year, submit an annual water shortage assessment report to the department with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the supplier's water shortage contingency plan. An urban water supplier that relies on imported water from the State Water Project or the Bureau of Reclamation shall submit its annual water supply and demand assessment within 14 days of receiving its final allocations, or by July 1 of each year, whichever is later.

Commencing July 1, 2022, the City is required to submit an "Annual Water Supply and Demand Assessment" (Annual Assessment) in accordance with DWR's guidance and requirements. The Annual Assessment will include a review of the City's unconstrained water demands (i.e. water demands prior to any projected response actions the City may trigger under this Water Shortage Contingency Plan) for the current year and the upcoming (potential single dry) year. The City will also include information regarding anticipated shortages, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the City's Water Shortage Contingency Plan.

For each Annual Assessment, the City plans to prepare a preliminary assessment which evaluates the adequacy of its water supplies for the current and upcoming years by April of each year. The preliminary assessment will include a review of water supplies for at least a single dry year.

8.3.1 – Decision-Making Process

The City produces groundwater from the Main Basin as its primary source of water supply and that basin is managed on a fiscal year basis. Consequently, during the third quarter of each fiscal year the City will review its water demands from the initial six months along with the current groundwater basin conditions and local hydrology. This information will be used to help develop the Annual Assessment. A draft of the Annual Assessment will be circulated internally within the City for peer review and comment. Based on comments received, a redraft will be prepared and provided to City managers during the Spring of each year. The draft will subsequently be provided to the Public Works and Utilities Director for final review. Subsequently, a final draft of the Annual Assessment will be provided to the City Council for review and included in the agenda as part of a regular City Council meeting such that it can be approved and any recommended specific shortage response actions may be enacted. The final Annual Assessment will be provided to DWR no later than July 1 of each year.

The Annual Assessments will be instrumental in providing guidance to the City for decisions regarding potential declarations of a water supply shortage and implementation of water reduction stages, instituting mandatory water restrictions, promoting water use efficiency and conservation programs, and the necessity of pursuing alternative water supplies. This process will help ensure adequate water supplies resources are available to the City.

8.3.2 – Data and Methodologies

The key data inputs and methodologies which will be evaluated by the City during the preparation of the preliminary assessment will include the following:

1) Evaluation Criteria

The locally applicable evaluation criteria used to prepare the Annual Assessment will be identified. The evaluation criteria will include, but is not limited to, an analysis of current local hydrology (including rainfall and groundwater levels), current water demands, a review of water system improvement plans which may impact infrastructure availability, and water quality regulations which may impact groundwater availability.

2) Water Supply

A description of each available water supply source will be provided. The descriptions will include a quantification of each available water supply source and will be based on review of current production capacities, historical production, Urban Water Management Plans, and prior water supply studies (including Water Supply Assessments and/or Master Plans).

3) Unconstrained Water Demand

The potential unconstrained water demands during the current year and the upcoming (potential single dry) year will be reviewed. The review will include factors such as weather, existing and projected land uses and populations, actual customer consumption and water use factors, Urban Water Supplier Monthly Reports, existing water shortage levels (see Section 8.4), and Ordinance No. 2861.

4) Planned Water Use for Current Year Considering Dry Subsequent Year

The water supplies available to meet the demands during the current year and the upcoming (potential single dry) year will be considered and identified by each type of supply. The evaluation will include factors such as estimated water demands, weather, groundwater basin operating safe yields, water quality results, existing available pumping capacities, imported water allocations, contractual obligations, regulatory issues, use of emergency interconnections, and the costs associated with producing each water supply source.

5) Infrastructure Considerations

The City has surplus groundwater production capacity to meet demand through 2045. Available production capacities and distribution system water losses will be reviewed annually.

6) Other Factors

Additional local considerations, if any, which can affect the availability of water supplies will be described.

8.4 – Six Standard Water Shortage Levels

Water Code Section 10632(a)(3)

(A) Six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, and 50 percent shortages and greater than 50 percent shortage. Urban water suppliers shall define these shortage levels based on the suppliers' water supply conditions, including percentage reductions in water supply, changes in groundwater levels, changes in surface elevation or level of subsidence, or other changes in hydrological or other local conditions indicative of the water supply available for use. Shortage levels shall also apply to catastrophic interruption of water supplies, including, but not limited to, a regional power outage, an earthquake, and other potential emergency events.

(B) An urban water supplier with an existing water shortage contingency plan that uses different water shortage levels may comply with the requirement in subparagraph (A) by developing and including a cross-reference relating its existing categories to the six standard water shortage levels.

Table 8.1 summarizes the correlation between the City's Drought Response Stages and the required Water Shortage Contingency Plan levels, pursuant to City of El Monte Code of Ordinances, §14.02.010.B.

Table 8.1 – Correlation of Drought Response Stages to WSCP Levels

Drought Response Stage	Shortage Level	2020 WSCP Level	Shortage Level
Stage II	17% Watermaster OSY	1	≤ 10%
		2	10 – 20%
Stage III	24% OSY	3	20 – 30%
Stage IV	31% OSY	4	30 – 40%
Stage V	50% OSY	5	40 – 50%
		6	> 50%

The Drought Response Stages are described in detail in Section 8.5.2.

The Drought Response Stages are anticipated to reduce demand at a rate consistent with the Main Basin OSY shortage levels that guide administration of the basin adjudication.

8.5 – Shortage Response Actions

Water Code Section 10632 (a)(4)

Shortage response actions that align with the defined shortage levels and include, at a minimum, all of the following:

(A) Locally appropriate supply augmentation actions.

(B) Locally appropriate demand reduction actions to adequately respond to shortages.

(C) Locally appropriate operational changes.

(D) Additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions.

(E) For each action, an estimate of the extent to which the gap between supplies and demand will be reduced by implementation of the action.

8.5.1 – Supply Augmentation

The City maintains three emergency connections with neighboring water purveyors. These connections may be used to augment the City's water supply per the City's Emergency Response Plan discussed in Section 8.5.5.

8.5.2 – Demand Reduction

Demand reduction actions are codified in City of El Monte Code of Ordinances, Chapter 14.02 – Drought Response Conservation Plan, as follows:

Stage I

During Stage 1 voluntary drought preparedness conditions, all water customers of the El Monte Water Department as well as all other persons using water provided by the same shall be encouraged by the city to adhere to the following voluntary water conservation measures as applicable:

1. Automated sprinklers, automated drip irrigation systems and other automated irrigation systems and devices shall be adjusted and maintained to avoid overspray, runoff and/or waste. For purposes of this chapter, the phrase "other automated irrigation systems and devices" includes, but is not limited to, a garden hose or drip irrigation hose that is not being held in a persons hand during the irrigation process but which is nevertheless connected to an open water spigot and is being used to disburse potable water; and
2. Avoid watering in the hot part of the day and/or during morning and evening peak hours, and avoid watering on windy days; and
3. Install new landscaping, low-water using trees, plants and shrubs and install efficient irrigation systems; and
4. Install pool and spa covers to minimize water loss due to evaporation and keep pools and spas with covers covered when not in use; and
5. Retrofit indoor plumbing fixtures with low flow devices; and
6. Refrain from washing sidewalks, walkways, driveways, public and private parking areas and all other impervious hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety (nothing in this subsection shall be interpreted to relieve property owners or their tenants of the obligation to keep sidewalks and parkways abutting the subject property in a clean condition, free of solid waste or other refuse or debris); and
7. Check faucets, toilets, and pipes, both indoor and outdoor for leaks and repair immediately.

Stage II

During Stage 2 drought watch conditions, all water customers of the El Monte Water Department as well as all other persons using water provided by the city shall comply with the following mandatory conservation measures:

1. Refrain from washing of sidewalks, walkways, driveways, public and private parking areas and all other impervious hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety (nothing in this subsection shall be interpreted to relieve property owners or their tenants of the obligation to keep sidewalks and parkways abutting the subject property in a clean condition, free of solid waste or other refuse or debris); and

2. Stop water waste resulting from inefficient landscape irrigation practices, such as allowing excessive or unreasonable runoff, low head drainage or unreasonable over-spraying, etc. Similarly, stop water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures. Every customer is deemed to have his or her water system under control at all times, to know the manner and extent of this water use and any runoff, and to employ available alternatives to apply irrigation water in a reasonably efficient manner; and
3. Repair breaks and leaks within a customer's plumbing or private water distribution system to prevent the escape of water within seventy-two (72) hours after the customer discovers such a break or leak or receives notice from the city of a break or leak unless other arrangements are made with the Public Works Maintenance Superintendent;
4. In no event may landscaped areas be irrigated through the use of automated sprinklers, automated drip irrigation systems or other automated irrigation systems and devices, between the hours of 6:00 a.m. and 8:00 p.m. All persons are encouraged to avoid the use of such automated irrigation systems and devices on windy days. Except as otherwise prohibited under Section 14.02.015 of this chapter, manual irrigation by hand-held garden hose or by hand held bucket or other similar container containing potable water shall be permitted any time. In no event may any water used for irrigation purposes described in this subsection be permitted or undertaken in such a fashion as to cause water to run off into storm drains or onto streets, sidewalks, paved walkways, driveways, public or private parking areas or other impervious hard surface areas.
5. The washing of automobiles, trucks, trailers, boats, airplanes, and other types of equipment (mobile or otherwise) shall be prohibited unless done with a hand-held bucket or hand-held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use to ensure the water supply is shutoff. This subsection shall not apply to the washing of the above-listed vehicles or mobile equipment when conducted upon the premises of a commercial carwash; and
6. Eating and drinking establishments of all kind including, but not limited to, any restaurant, hotel, cafe, cafeteria, bar or club, whether public or private, shall not provide drinking water to any person unless it is expressly requested; and
7. Guests in hotels, motels, and other commercial lodging establishments shall be offered the option of not laundering towels and linens daily.

Exceptions. None of these restrictions shall apply to the following:

1. The routine and necessary use of water, other than for landscape irrigation, by a governmental entity in pursuit of its governmental functions for the benefit of the public, such as construction projects and for the cleaning of streets to prevent debris and harmful substances from entering water systems via storm drains; and
2. The reasonably necessary use of water for the routine maintenance and/or repair of (i) water distribution facilities; (ii) residential and commercial plumbing; or (iii) permanently installed landscaped irrigation systems.

Stage III

During Stage 3 drought alert conditions, all water customers of the El Monte Water Department as well as all other persons using water provided by the city shall comply with the mandatory conservation measures set forth under this section in addition to those measures required under Stage 2 conditions, except to the extent such Stage 2 measures conflict with the measures set forth under this section. The additional Stage 3 conservation measures shall include the following:

1. Irrigation
 - a. Outdoor irrigation of landscaped areas by automated sprinklers, automated drip irrigation systems or other automated irrigation systems or devices shall be permitted as follows: (i) on even days of each month for those properties having a street address with an even last digit; and (ii) on odd days for each month for those properties having a street address with an odd last digit. In the event a street address ends in a digit which is a fraction, the street address will be considered an even address if the last whole digit in the address is an even number and the street address will be considered an odd address if the last whole digit in the address is an odd number. If two (2) or more properties with both even and odd numbered street addresses share one or more landscaped areas in common, such common landscaped areas may be irrigated on either an even or odd day of the week but in no event may such landscaped areas be irrigated for two (2) consecutive days in a row.
 - b. Except as otherwise prohibited under Section 14.02.015 of this chapter, manual irrigation by hand-held garden hose or by hand held bucket or other similar container containing potable water shall be permitted on any day, subject to the hourly restrictions of paragraph c. of this subsection, below. In no event may any water used for irrigation purposes described in this subsection be permitted or undertaken in such a fashion as to cause water to run off into storm drains or onto streets, sidewalks, paved walkways, driveways, public or private parking areas or other impervious hard surface areas.
 - c. Paragraphs a. and b. of this subsection notwithstanding, in no event may landscaped areas be irrigated, whether manually or through the use of automated irrigation systems or devices, between the hours of 6:00 a.m. and 8:00 p.m. In no event may any water used for irrigation purposes described in this subsection be permitted or undertaken in such a fashion as to cause water to run off into storm drains or onto sidewalks, paved walkways, driveways, public or private parking areas or other impervious hard surface areas.
2. Washing of Vehicles, Trailers, Boats, Airplanes and Mobile Equipment.
 - a. The washing of automobiles, trucks, trailers, boats, airplanes and other types of equipment (mobile or otherwise) shall be prohibited between the hours of twelve midnight to twelve noon and sundown to twelve midnight, except on the designated outdoor water use times set forth under subsection (A)(1) of this section. Such washing, when allowed, shall be done with a hand-held bucket or hand-held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use to ensure the water supply is shutoff.

- b. Washing trucks, trailers and other types of mobile equipment (such as solid waste collection vehicles, mobile solid waste containers, vehicles used to transport food and other perishables), when such washing is necessary in order to protect the health, safety and welfare of the public, shall be restricted to the hours of sundown to noon. Such washing, when allowed, shall be done with a hand-held bucket or hand-held hose equipped with a positive shutoff nozzle for quick rinses. The nozzle shall be removed when the hose is not in use; and
3. The refilling or adding of water to swimming pools is prohibited except on designated outdoor water use days, which shall be the same days as outdoor watering is permitted under subsection (A)(1) of this section; and
4. Stop operating ornamental fountains or similar decorative water features unless recycled water is used; and
5. The irrigation of golf course fairways is prohibited (this section shall not apply to the irrigation of any golf course solely with reclaimed wastewater); and
6. The use of water from fire hydrants shall be limited to firefighting and emergency-related activities and/or other activities necessary to maintain the health, safety, and welfare of El Monte residents and commercial establishments. This restriction shall not apply to businesses which pursuant to state or federal law or any city-issued permit require the use of water for land development and building construction processes.

Exceptions. None of the Stage 3 conservation measures shall apply to the following uses of water:

1. The routine and necessary use of water, other than for landscape irrigation, by a governmental entity in pursuit of its governmental functions for the benefit of the public, such as construction projects and for the cleaning of streets to prevent debris and harmful substances from entering water systems via storm drains; and
2. The routine and necessary use of water, other than for landscape irrigation, for land development (e.g., roadway base preparation, flushing of utility lines, dust control, concrete and asphalt work) or for building construction processes; and
3. The necessary use of water for the routine maintenance and/or repair, of water distribution facilities, residential and commercial plumbing and permanently installed landscape irrigation systems; and
4. The use of water necessary to irrigate large, landscaped areas in commercial and institutional establishments as authorized by the terms and conditions of an approved compliance agreement issued by the review board, as defined in Section 14.02.080; and
5. The use of water pursuant to the approved terms and conditions of a variance granted by the review board as defined in Section 14.02.080.

Stage IV

During Stage 4 drought critical conditions, all water customers of the El Monte Water Department as well as all other persons using water provided by the city shall comply with the mandatory conservation measures set forth under this section in addition to those measures required under Stage 3 conditions, except to the extent such Stage 3 measures conflict with the measures set forth under this section. The additional Stage 4 conservation measures shall include the following:

1. The washing of sidewalks, walkways, driveways, public and private parking areas and other impervious hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety is prohibited (nothing in this subsection shall be interpreted to relieve property owners or their tenants of the obligation to keep sidewalks and parkways abutting the subject property in a clean condition, free of solid waste or other refuse or debris); and
2. Every water customer shall be responsible for the operation of his or her irrigation systems and devices and such systems and devices shall at all times be deemed to be under the supervision and control of the water customer, regardless of whether the customer is physically on the property being irrigated at the time such irrigation is underway. Every water customer shall be deemed to have knowledge and awareness of the manner and extent of his or her irrigation systems water consumption and usage and the occurrence of runoff occurrences prohibited under this chapter. Every water customer shall employ available alternatives to apply irrigation water in a reasonable efficient and non-wasteful manner;
3. Allowing, permitting or causing the escape of water through breaks or leaks within the customer's plumbing or private water distribution system for any substantial period of time within which such break or leak should reasonably have been discovered and corrected. It shall be presumed that a period of seventy-two (72) hours after the customer discovers such a break or leak or receives notice from the city of a break or leak, is a reasonable time within which to correct such break or leak, or, at a minimum, to stop the flow of water from such break or leak; and
4. Irrigation
 - a. Except as otherwise prohibited under Section 14.02.015, above, outdoor irrigation of landscaped areas by automated sprinklers, automated drip irrigation systems or other automated irrigation systems or devices shall be permitted as follows: (i) on Monday and Thursday of each week for those properties having a street address with an even last digit; and (ii) on Tuesday and Friday of each week for those properties having a street address with an odd last digit. In the event a street address ends in a digit which is a fraction, the street address will be considered an even address if the last whole digit in the address is an even number and the street address will be considered an odd address if the last whole digit in the address is an odd number. Except as otherwise prohibited under Section 14.02.015, above, if two (2) or more properties with both even and odd numbered addresses share one or more landscaped areas in common, such common landscaped areas may be irrigated on Monday, Tuesday, Thursday or Friday of each week only but in no event may such common landscaped areas be irrigated for two (2) consecutive days in a row. No automated irrigation system shall be set for a duration greater than fifteen (15) minutes or used in such a manner as to cause any specific landscaped area to be irrigated for a period longer than fifteen (15) minutes on a particular day.

- b. Manual irrigation, including but not limited to, irrigation by hand-held garden hose or hand-held bucket or similar container containing potable water shall also be subject to the same day restrictions as applied under paragraph a. of this subsection, above.
 - c. Paragraphs a. and b. of this subsection notwithstanding, in no event may landscaped areas be irrigated, whether manually or through the use of automated irrigation systems and devices, between the hours of 9:00 a.m. and 5:00 p.m. In no event may any water used for irrigation purposes described in this subsection be permitted or undertaken in such a fashion as to cause water to run off into storm drains or onto sidewalks, paved walkways, driveways, public or private parking areas or other impervious hard surface areas.
5. Pools and spas with covers shall be covered when not in use to minimize the loss of water due to evaporation.

Exceptions. None of the high shortage restrictions shall apply to the following uses of water, provided there is prior written approval by the review board as defined in Section 14.02.080:

- The routine and necessary use of water, other than for landscape irrigation, by a governmental entity in pursuit of its governmental functions for the benefit of the public, such as construction projects and for the cleaning of streets to prevent debris and harmful substances from entering water systems via storm drains; and
- The routine and necessary use of water, other than for landscape irrigation, for land development (e.g., roadway base preparation, flushing of utility lines, dust control, concrete and asphalt work) and for building construction processes; and
- The necessary use of water for the routine maintenance and/or repair of water distribution facilities, residential and commercial plumbing and permanently installed landscape irrigation systems; and
- The use of water necessary to irrigate large landscaped areas in commercial and institutional establishments as authorized by the terms and conditions of an approved compliance agreement issued by the review board, as defined in Section 14.02.080.

Stage V

During Stage 5 Drought Emergency Conditions, all water customers of the El Monte Water Department as well as all other persons using water provided by the city shall comply with the mandatory conservation measures set forth under this section in addition to those measures required under Stage 4 conditions, except to the extent such Stage 4 measures conflict with the measures set forth under this section. The additional Stage 5 conservation measures shall include the following:

1. Irrigation
 - a. Except as otherwise prohibited under Section 14.02.015, above, outdoor irrigation of landscaped areas by automated sprinklers, automated drip irrigation systems or other automated irrigation systems or devices shall be permitted as follows: (i) on Monday of each week for those properties having a street address with an even last digit; and (ii) on Thursday of each week for those properties having a street address with an odd last digit. In the event a street address ends in a digit which is a fraction, the street address will be considered an even address if the last whole digit in the address is an even number and the street address will be considered an odd address if the last whole digit in the address is an odd number. If two (2) or more properties with both even and odd street addresses share one or more landscaped areas in common, such common landscaped areas may be irrigated on Monday or Thursday of each week only but in no event may such common landscaped areas be irrigated more than once in a week. No automated irrigation system shall be set for a duration greater than ten (10) minutes or used in such a manner as to cause any specific landscaped area to be irrigated for a period longer than ten (10) minutes on a particular day.
 - b. Manual irrigation, including but not limited to, irrigation by hand-held garden hose or hand-held bucket or similar container containing potable water shall also be subject to the same day restrictions as applied under paragraph a. of this subsection, above.
 - c. Paragraphs a. and b. of this subsection notwithstanding, in no event may landscaped areas be irrigated, whether manually or through the use of automated irrigation systems and devices, between the hours of 9:00 a.m. and 5:00 p.m. In no event may any water used for irrigation purposes described in this subsection be permitted or undertaken in such a fashion as to cause water to run off into storm drains or onto sidewalks, paved walkways, driveways, public or private parking areas or other impervious hard surface areas.
2. Washing of Vehicles, Trailers, Boats, Airplanes and Mobile Equipment .
 - a. The washing of automobiles, trucks, trailers, boats, airplanes, and other types of equipment (mobile or otherwise) is prohibited except as provided elsewhere in this section.
 - b. No individual, firm or business that regularly washes vehicles for remuneration or provides facilities for customers to do so through coin-operated machinery shall be permitted to operate such a business unless their place of business is equipped and operating to approved city standards with equipment to recycle water for use within their facility. Washing of vehicles in such facilities shall occur only between the hours of six a.m. and twelve noon.

8.5.3 – Operational Changes

Operational changes are related to demand reduction actions as discussed in Section 8.5.2.

8.5.4 – Additional Mandatory Restrictions

Mandatory restrictions are related to demand reduction actions as discussed in Section 8.5.2.

8.5.5 – Emergency Response Plan

The City of El Monte Water Department has an Emergency Response Plan (ERP) that includes an emergency responses communication network.

The City's ERP was developed and implemented in 1997 and updated in 2005, as shown in Appendix N. The key elements of the ERP have been identified as the following:

- Design and implement an effective emergency response communication system.
- Develop an interagency mutual aid program.
- Prepare an emergency response plan, which will include section on water supply, water quality, emergency response plan, which will include section on water supply, water quality, emergency operations center (EOC), and an information resource list, which will include telephone numbers and supplies.

Included in the ERP is information that defines the type of emergencies that initiate the Plan into action, define the procedures and protocol for communication, automatic notification procedures, EOC staffing, EOC supply lists, damage assessment procedures and boil water notification procedures.

The City may purchase water through three emergency interconnections with local water purveyors, if needed. The City's three emergency interconnections have a total capacity of 5,200 gpm.

- The City has an emergency interconnection with the San Gabriel Valley Water Company, which is a six-inch connection that has a capacity of 1,200 gpm.
- The City has an emergency interconnection with the California – American Water Company, which is an eight-inch connection that has a capacity of 2,000 gpm.
- The City has a two-way eight-inch connection with the Golden State Water Company, which has a capacity of 2,000 gpm.

8.5.6 – Seismic Risk Assessment and Mitigation Plan

Water Code Section 10632.5.(a)

In addition to the requirements of paragraph (3) of subdivision (a) of Section 10632, beginning January 1, 2020, the plan shall include a seismic risk assessment and mitigation plan to assess the vulnerability of each of the various facilities of a water system and mitigate those vulnerabilities.

(b) An urban water supplier shall update the seismic risk assessment and mitigation plan when updating its urban water management plan as required by Section 10621.

(c) An urban water supplier may comply with this section by submitting, pursuant to Section 10644, a copy of the most recent adopted local hazard mitigation plan or multihazard mitigation plan under the federal Disaster Mitigation Act of 2000 (Public Law 106-390) if the local hazard mitigation plan or multihazard mitigation plan addresses seismic risk.

A copy of the City of El Monte 2017 Hazard Mitigation Plan is provided in Appendix K.

8.5.7 – Shortage Response Action Effectiveness

A City Council resolution is required to implement any given stage of action.

The City activated Stage II in 2009 and then activated Stage IV in July of 2015 through Resolution in response groundwater basin management objectives.

8.6 – Communication Protocols

Water Code Section 10632 (a)(5)

Communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding, at a minimum, all of the following:

(A) Any current or predicted shortages as determined by the annual water supply and demand assessment described pursuant to Section 10632.1.

(B) Any shortage response actions triggered or anticipated to be triggered by the annual water supply and demand assessment described pursuant to Section 10632.1.

(C) Any other relevant communications

The City communicates with customers via mail. An example of communication via mail related to implementation Water Conservation Stage IV in August 2015 is provided in Appendix O.

The City communicates regularly with the Main San Gabriel Basin Watermaster regarding administration of the adjudication.

The City is a regular attendee at the Upper District water conservation forum.

8.7 – Compliance and Enforcement

Water Code Section 10632 (a)(6)

For an urban retail water supplier, customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions as determined pursuant to Section 10632.2.

Ordinance No. 2861 includes penalties of between \$100 to \$500 for the El Monte Water Department customers who knowingly use or permit the use of water contrary to the ordinance's provisions.

8.8 – Legal Authorities

Water Code Section 10632 (a)(7)

(A) A description of the legal authorities that empower the urban water supplier to implement and enforce its shortage response actions specified in paragraph (4) that may include, but are not limited to, statutory authorities, ordinances, resolutions, and contract provisions.

(B) A statement that an urban water supplier shall declare a water shortage emergency in accordance with Chapter 3 (commencing with Section 350) of Division 1. [see below]

(C) A statement that an urban water supplier shall coordinate with any city or county within which it provides water supply services for the possible proclamation of a local emergency, as defined in Section 8558 of the Government Code.

Water Code Section Division 1, Section 350

Declaration of water shortage emergency condition. The governing body of a distributor of a public water supply, whether publicly or privately owned and including a mutual water company, shall declare a water shortage emergency condition to prevail within the area served by such distributor whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

Pursuant to City of El Monte Code of Ordinances, §14.02.010.B:

Authorization. This chapter establishes water conservation measures to be applied citywide pursuant to the authority granted to the city under 23 CFR § 864 as well as separate water measures to be applied specifically to El Monte Water Department customers during times of declared water shortages, or declared water emergencies. As to the conservations measures to be applied to El Monte Water Department customers, this chapter establishes an escalating set of drought response actions to be implemented in times of shortage, with increasing restrictions on water use in response to worsening drought conditions and decreasing available supplies.

8.9 – Financial Consequences of WSCP

Water Code Section 10632(a)(8)

A description of the financial consequences of, and responses for, drought conditions, including, but not limited to, all of the following:

(A) A description of potential revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(B) A description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(C) A description of the cost of compliance with Chapter 3.3 (commencing with Section 365) of Division 1.

The City of El Monte Water Department annual income comes from the sales of water to its customers. Customer billings make up over 94 percent of the Water Department's total revenue. Miscellaneous sources of income include interest, penalties, customer application charges and fees.

Reduced water sales due to water use reduction will have an immediate impact on revenues. However, a mechanism that helps offset revenue shortfalls is the "pass through" provision in the City's water rate structure. In the event the City exceeds its groundwater allocation from Watermaster and purchases replacement water, the cost of needed replacement water purchased from Watermaster can be passed on to rate payers.

The City currently has no drought surcharge in its rate structure to help offset decreased revenues during times of lower water consumption. The City will evaluate implementing drought surcharge in its next rate structure review.

8.10 – Monitoring and Reporting

Water Code Section 10632(a)(9)

For an urban retail water supplier, monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

All of the City's water production is metered at the well heads. Since June of 2015, the City has been required to report monthly water savings as compared to the City's 2013 water production to the Water Board. The City reports its monthly water production and savings to the Drinking Water Information Clearinghouse (DRINC) portal using the Urban Water Supplier Reporting Tool.

Essentially, all of the City's water consumption is metered and is compared monthly to the production from the wells.

8.11 – WSCP Refinement Procedures

Water Code Section 10632 (a)(10)

Reevaluation and improvement procedures for systematically monitoring and evaluating the functionality of the water shortage contingency plan in order to ensure shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed.

WSCP refinement is conducted every five years when the UWMP is updated.

8.12 – *Special Water Feature Distinction*

Water Code Section 10632 (b)

For purposes of developing the water shortage contingency plan pursuant to subdivision (a), an urban water supplier shall analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas, as defined in subdivision (a) of Section 115921 of the Health and Safety Code.

Ordinance No. 2861 includes provisions for special water features found in the City.

8.13 – Plan Adoption, Submittal, and Availability

Water Code Section 10632 (a)(c)

The urban water supplier shall make available the water shortage contingency plan prepared pursuant to this article to its customers and any city or county within which it provides water supplies no later than 30 days after adoption of the water shortage contingency plan.

A copy of the WSCP will be made available to Los Angeles County within 30 days of adoption.