



2025 Water Shortage Contingency Plan

FINAL DRAFT / April 2026



in collaboration with



and





City of Fullerton

2025 Water Shortage Contingency Plan

April 2026 / FINAL DRAFT

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Abbreviations

%	Percent
AF	Acre-Feet
AWSDA	Annual Water Supply and Demand Assessment
BPP	Basin Production Percentage
CAMP4W	MET's Climate Adaptation Master Plan for Water
City	City of Fullerton
DDW	Division of Drinking Water
DVL	Diamond Valley Lake
DWR	California Department of Water Resources
EPA	Environmental Protection Agency
EOC	Emergency Operations Center
EOP	Emergency Operations Plan
FY	Fiscal Year
GRP	OCWD's Groundwater Resilience Plan
GSP	Groundwater Sustainability Plan
IAWP	Interim Agricultural Water Program
IRP	Integrated Water Resources Plan
LHMP	Local Hazard Mitigation Plan
M&I	Municipal and Industrial
MCL	Maximum Contaminant Level
MET	Metropolitan Water District of Southern California
MWDOC	Municipal Water District of Orange County
NIMS	National Incident Management System
OC Basin	Orange County Groundwater Basin
OCWD	Orange County Water District
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
PPT	Parts Per Trillion
Producers	Groundwater Producers
RL	Response Level
SEMS	California Standardized Emergency Management System
Supplier	Urban Water Supplier
SWP	State Water Project
UWMP	Urban Water Management Plan
Water Code	California Water Code
WEROC	Water Emergency Response Organization of Orange County

WSAP	Water Supply Allocation Plan
WSCP	Water Shortage Contingency Plan
WSDM	Water Surplus and Drought Management Plan

SECTION 1 INTRODUCTION AND WSCP OVERVIEW

The Water Shortage Contingency Plan (WSCP) is a strategic planning document designed to prepare for and respond to water shortages. This WSCP complies with California Water Code (Water Code) Section 10632, which requires that every Urban Water Supplier (Supplier) shall prepare and adopt a WSCP as part of its Urban Water Management Plan (UWMP). This level of detailed planning and preparation is intended to help maintain reliable supplies and reduce the impacts of supply interruptions.

The WSCP is the City of Fullerton's (City) operating manual that is used to prevent catastrophic service disruptions through proactive, rather than reactive, management. A water shortage, when the water supply available is insufficient to meet the normally expected customer water use at a given point in time, may occur due to a number of reasons, such as drought, climate change, and catastrophic events. This Plan provides a structured guide for the City to deal with water shortages, incorporating prescriptive information and standardized action levels, along with implementation actions in the event of a catastrophic supply interruption. This way, if and when shortage conditions arise, the City's governing body, its staff, and the public can easily identify and efficiently implement pre-determined steps to manage a water shortage. A well-structured WSCP allows real-time water supply availability assessment and structured steps designed to respond to actual conditions, enabling efficient management of any shortage with predictability and accountability.

The WSCP also describes the City's procedures for conducting an Annual Water Supply and Demand Assessment (AWSDA) that is required by Water Code Section 10632.1 and is to be submitted to the California Department of Water Resources (DWR) on or before July 1 of each year, or within 14 days of receiving final allocations from the State Water Project (SWP), whichever is later. The City's 2025 WSCP is included as an appendix to its 2025 (UWMP) which will be submitted to DWR by July 1, 2026. However, while developed in conjunction with the UWMP, this WSCP is a standalone document and can be amended, as needed, without amending the UWMP. Furthermore, the Water Code does not prohibit a Supplier from taking actions not specified in its WSCP, if needed, without having to formally amend its UWMP or WSCP.

1.1 Water Shortage Contingency Plan Requirements and Organization

The WSCP provides the steps and water shortage response actions to be taken in times of water shortage conditions. WSCP has prescriptive elements, such as an analysis of water supply reliability; the water shortage response actions for each of the six standard water shortage levels that correspond to water shortage percentages ranging from 10% to greater than 50%; an estimate of potential to close supply gap for each measure; protocols and procedures to communicate identified actions for any current or predicted water shortage conditions; procedures for an AWSDA; monitoring and reporting requirements to determine customer compliance; reevaluation and improvement procedures for evaluating the WSCP.

This WSCP is organized into three main sections, with Section 3 aligned with the Water Code Section 16032 requirements.

Section 1 Introduction and WSCP Overview gives an overview of the WSCP fundamentals.

Section 2 Background Information provides a background on the City's water service area.

Section 3 Water Shortage Contingency Preparedness and Response Planning.

Section 3.1 Water Supply Reliability Analysis provides a summary of the water supply analysis and water reliability findings from the 2025 UWMP.

Section 3.2 Annual Water Supply and Demand Assessment Procedures provides a description of procedures to conduct and approve the AWSDA.

Section 3.3 Six Standard Water Shortage Stages explains the WSCP's six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, 50, and more than 50 percent shortages.

Section 3.4 Shortage Response Actions describes the WSCP's shortage response actions that align with the defined shortage levels.

Section 3.5 Communication Protocols addresses communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding any current or predicted shortages and any resulting shortage response actions.

Section 3.6 Compliance and Enforcement describes customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions.

Section 3.7 Legal Authorities describes the legal authorities that enable the City to implement and enforce its shortage response actions.

Section 3.8 Financial Consequences of the WSCP provides a description of the financial consequences of and responses for drought conditions.

Section 3.9 Monitoring and Reporting describes 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.

Section 3.10 WSCP Refinement Procedures addresses reevaluation and improvement procedures for monitoring and evaluating the functionality of the WSCP.

Section 3.11 Special Water Feature Distinction provides a required definition for inclusion in a WSCP per the Water Code.

Section 3.12 Plan Adoption, Submittal, and Availability describes the process the City followed to adopt its WSCP.

1.2 Integration with Other Planning Efforts

As a retail water supplier in Orange County, the City considered other key entities in the development of this WSCP, including the Metropolitan Water District of Southern California (MET) (regional wholesaler for Southern California and the direct supplier of imported water to the City) and Orange County Water District (OCWD) (Orange County Groundwater Basin [OC Basin] manager and provider of recycled water in North Orange County).

Some of the key planning and reporting documents that were used to develop this WSCP are:

- **Municipal Water District of Orange County (MWDOC's) 2025 UWMP** provides the basis for the projections of the imported supply availability over the next 25 years for the City's service area.
- **MWDOC's 2025 WSCP** provides a water supply availability assessment and structured steps designed to respond to actual conditions that will help maintain reliable supplies and reduce the impacts of supply interruptions.
- **MWDOC's 2023 Orange County Water Reliability Study** is a planning document to help guide planning for future water supply reliability for water providers in Orange County and provide input on regional water supply issues for MET.
- **2025 Orange County Water Demand Projection Model Technical Memorandum** is a collaborative effort amongst MWDOC, OCWD, and all retail water suppliers in Orange County that developed water demand projections to produce regionally consistent forecasts across all Orange County water agencies.
- **OCWD's 2025 Groundwater Resilience Plan (GRP)** is an adaptive strategies management plan outlining strategic projects to secure reliable future water supplies in the Orange County Basin.
- **MET's 2025 UWMP** uses assumptions that fall within the plausible futures contemplated in MET's Integrated Water Resources Plan to evaluate MET's future imported water supply reliability.
- **MET's 2025 WSCP** provides a water supply availability assessment and guide for MET's intended actions during water shortage conditions.
- **OCWD's 2023-24 Engineer's Report** provides information on the groundwater conditions, water supply, and basin utilization of the OC Basin.
- **OCWD's 2022 Basin 8-1 Alternative** is an alternative to the Groundwater Sustainability Plan (GSP) for the OC Basin, provides significant information related to sustainable management of the basin in the past and hydrogeology of the basin, including groundwater quality and basin characteristics, and addresses DWR's recommendations to ensure long-term basin sustainability.
- **City of Fullerton's 2025 Local Hazard Mitigation Plan (LHMP)** provides the basis for the seismic and other natural and natural disaster risk analysis of the water system facilities.
- **City of Fullerton's Public Works Department Water Division Emergency Response Plan** incorporates and coordinates all facilities and personnel of the City into an efficient organization that is capable of responding effectively to an emergency.
- **City of Fullerton's Risk and Resilience Assessment** assesses the risk and resilience of the City's water system to malevolent acts and natural hazards.

SECTION 2 BACKGROUND INFORMATION

The City established its Water Utility in 1906, which functions to provide water to City residents. The City is a predominantly single and multi-family residential community, with a current population of 141,277, which is projected to increase by 12.5% over the next 25 years. This equates to an annual growth rate of 0.5%. The City is governed by a five-member council elected, each representing their own district, serving four-year staggered terms. As the City's legislative body, the Council is responsible for all municipal

programs and services, as well as local policy decisions. The City regards an adequate supply of water as an essential service to ensure public health and safety, economic growth, and community wellbeing.

2.1 City Service Area

The City's water service area covers 22.3 square miles, in north Orange County bounded to the north by the cities of La Habra and Brea, Placentia to the east, Buena Park to the west, and Anaheim to the south. The City's Water Utility operates 15 reservoirs with a capacity of 67.5 million gallons, 12 booster pumping stations, 7 active groundwater wells and manages about 424-mile water mains system with approximately 32,050 service connections.

Lying in the South Coast Air Basin (SCAB), its climate is characterized by southern California's "Mediterranean" climate with mild winters, warm summers, and moderate rainfall. In terms of land use, the City is a predominantly single and multi-family residential community. Recent and ongoing developments in the City include various residential, commercial, industrial, and mixed-use projects. Moving forward, the City will continue planning for its Regional Housing Needs Allocation (RHNA) requirements and future planned developments may include accessory dwelling units (ADUs). A map of the City's water service area is shown in Figure 1.

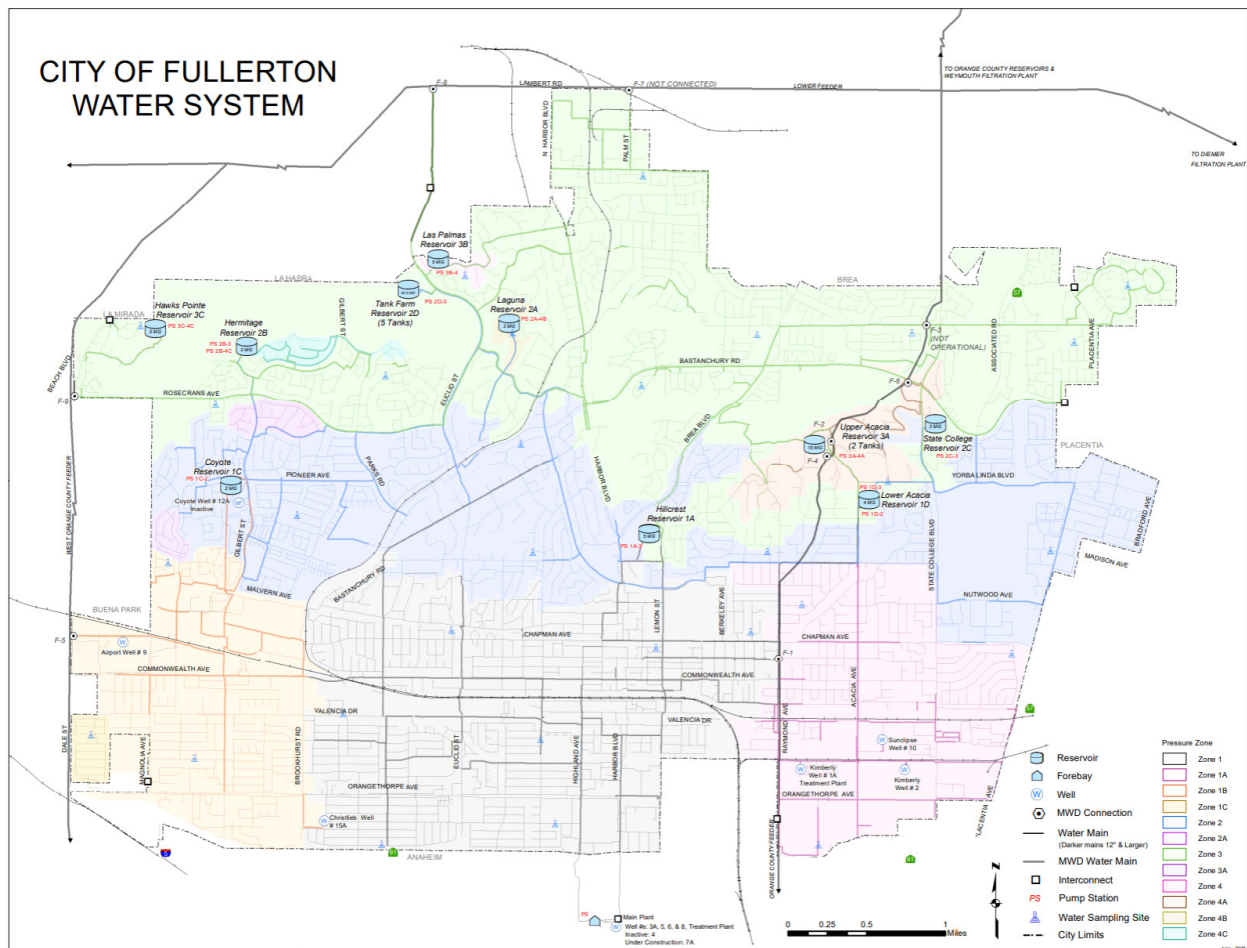


Figure 1 City of Fullerton Service Area

2.2 Relationship to Wholesalers

The Metropolitan Water District of Southern California: MET is the largest water wholesaler for domestic and municipal uses in California, serving approximately 19 million customers. MET wholesales imported water supplies to 26 member cities and water districts in six Southern California counties. Its service area covers the southern California coastal plain, extending approximately 200 miles along the Pacific Ocean from the City of Oxnard in the north to the international boundary with Mexico in the south. This encompasses 5,200 square miles and includes portions of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura counties. Approximately 85% of the population from the aforementioned counties reside within MET's boundaries.

MET is governed by a Board of Directors comprised of 38 appointed individuals with a minimum of one representative from each of MET's 26 member agencies. The allocation of directors and voting rights are determined by each agency's assessed valuation. Each member of the Board shall be entitled to cast one vote for each ten million dollars (\$10,000,000) of assessed valuation of property taxable for district purposes, in accordance with Section 55 of the Metropolitan Water District Act. Directors can be appointed through the chief executive officer of the member agency or by a majority vote of the governing board of the agency. Directors are not compensated by MET for their service.

MET is responsible for importing water into the region through its operation of the Colorado River Aqueduct and its contract with the State of California for SWP supplies. Member agencies receive water from MET through various delivery points and pay for service through a rate structure made up of volumetric rates, capacity charges, and readiness to serve charges. Member agencies provide estimates of imported water demand to MET annually in April regarding the amount of water they anticipate they will need to meet their demands for the next five years.

The City is one of MET's member agencies that purchases water directly from MET. The City's location within MET's service area and Orange County is shown in Figure 2.

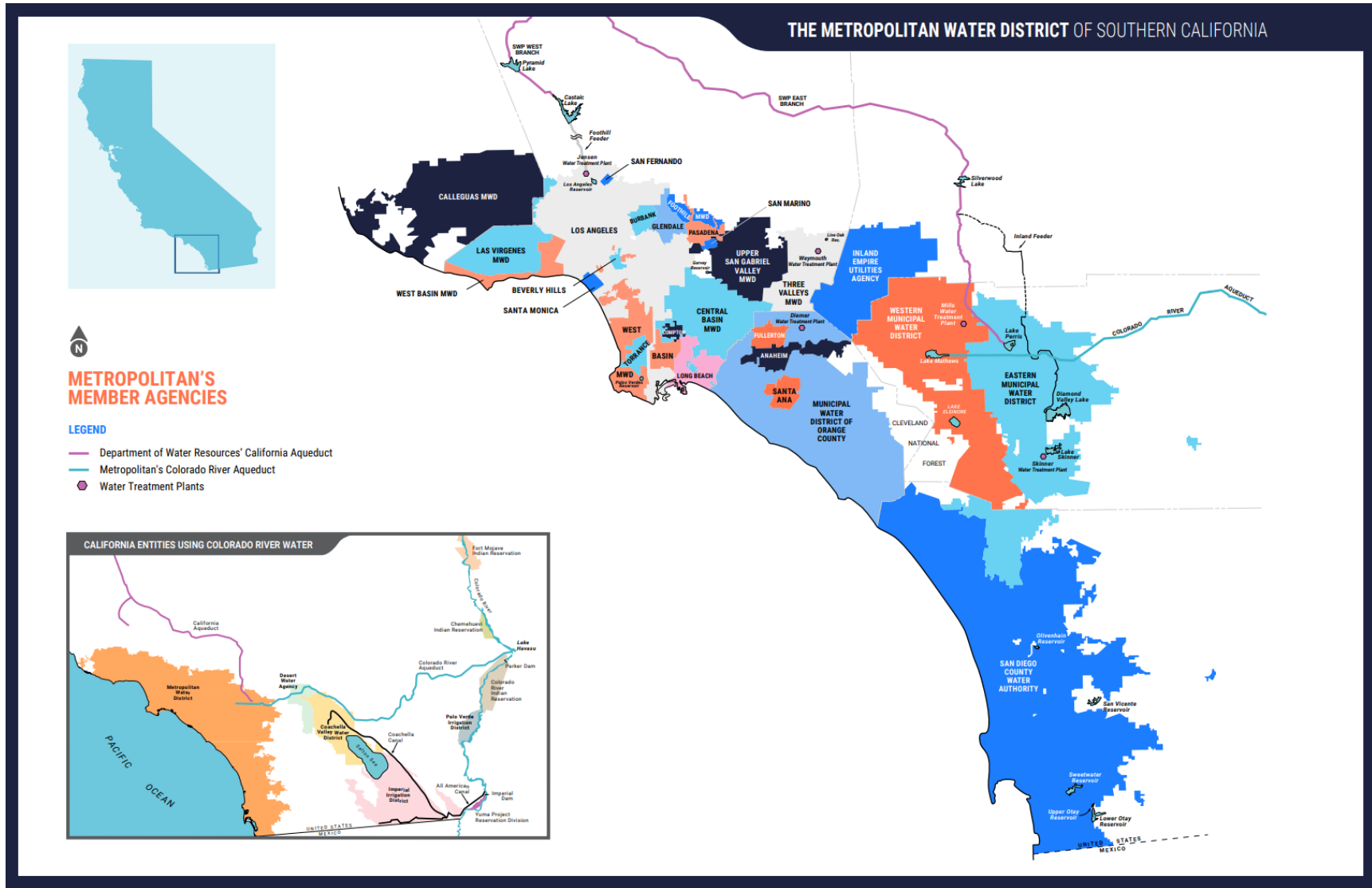


Figure 2 Regional Location of City of Fullerton and Other MET Member Agencies

2.3 Relationship with Wholesaler Water Shortage Planning

The WSCP is designed to be consistent with MET's Water Surplus and Drought Management (WSDM) Plan and Water Supply Allocation Plan (WSAP) and other emergency planning efforts as described below. MET's WSAP is integral to the WSCP's shortage response strategy in the event that MET determines that supply augmentation (including storage) and lesser demand reduction measures would not be sufficient to meet projected shortage levels needed to meet demands.

2.3.1 MET Water Surplus and Drought Management Plan

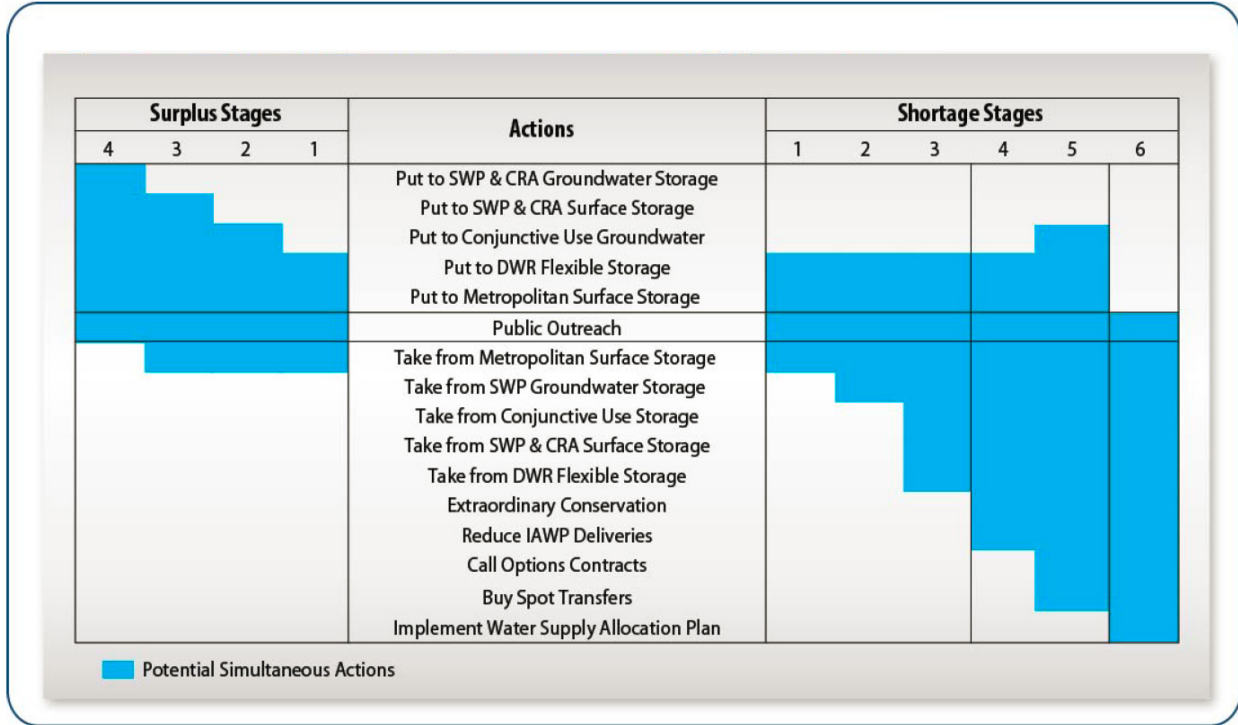
MET evaluates the level of supplies available and existing levels of water in storage to determine the appropriate management stage annually. Each stage is associated with specific resource management actions to avoid extreme shortages to the extent possible and minimize adverse impacts to retail customers should an extreme shortage occur. The sequencing outlined in the WSDM Plan reflects anticipated responses towards MET's existing and expected resource mix.

Surplus stages occur when net annual deliveries can be made to water storage programs. Under the WSDM Plan, there are four surplus management stages that provides a framework for actions to take for surplus supplies. Deliveries in Diamond Valley Lake (DVL) and in SWP terminal reservoirs continue through each surplus stage provided there is available storage capacity. Withdrawals from DVL for regulatory purposes or to meet seasonal demands may occur in any stage.

The WSDM Plan distinguishes between shortages, severe shortages, and extreme shortages. The differences between each term are listed below:

- **Shortage:** MET can meet full-service demands and partially meet or fully meet interruptible demands using stored water or water transfers, as necessary (Stages 1-3).
- **Severe Shortage:** MET can meet full-service demands only by making withdrawals from storage, calling on its water transfers, and possibly calling for extraordinary conservation and reducing deliveries under the Interim Agricultural Water Program (IAWP) (Stages 4-5).
- **Extreme Shortage:** MET must allocate available supply to full-service customers (Stage 6).

There are six shortage management stages to guide resource management activities. These stages are defined by shortfalls in imported supply and water balances in MET's storage programs. When MET must make net withdrawals from storage to meet demands, it is considered to be in a shortage condition. Figure 3 gives a summary of actions under each surplus and shortage stages when an allocation plan is necessary to enforce mandatory cutbacks. The goal of the WSDM plan is to avoid Stage 6, an extreme shortage (MET, 2026b).



Source: MET's 2025 UWMP.

Figure 3 Resource Stages, Anticipated Actions, and Supply Declarations

MET's Board of Directors adopted a Water Supply Condition Framework in June 2008 to communicate the urgency of the region's water supply situation and the need for further water conservation practices. The framework has four conditions, each calling increasing levels of conservation. Descriptions for each of the four conditions are listed below:

- **Baseline Water Use Efficiency:** Ongoing conservation, outreach, and recycling programs to achieve permanent reductions in water use and build storage reserves.
- **Condition 1 Water Supply Watch:** Local agency voluntary dry-year conservation measures and use of regional storage reserves.
- **Condition 2 Water Supply Alert:** Regional call for cities, counties, member agencies, and retail water agencies to implement extraordinary conservation through drought ordinances and other measures to mitigate use of storage reserves.
- **Condition 3 Water Supply Allocation:** Implement MET's WSAP.

As noted in Condition 3, should supplies become limited to the point where imported water demands cannot be met, MET will allocate water through the WSAP (MET, 2026a).

2.3.2 MET Water Supply Allocation Plan

MET's imported supplies have been impacted by a number of water supply challenges as noted earlier. In case of extreme water shortage within the MET service area is the implementation of its WSAP.

MET's Board of Directors originally adopted the WSAP in February 2008 to fairly distribute a limited amount of water supply and applies it through a detailed methodology to reflect a range of local conditions and needs of the region's retail water consumers (MET, 2026a).

The WSAP includes the specific formula for calculating member agency supply allocations and the key implementation elements needed for administering an allocation. MET's WSAP is the foundation for the urban water shortage contingency analysis required under Water Code Section 10632 and is part of MET's 2025 UWMP.

MET's WSAP was developed in consideration of the principles and guidelines in MET's 1999 WSDM Plan with the core objective of creating an equitable "needs-based allocation". The WSAP's formula seeks to balance the impacts of a shortage at the retail level while maintaining equity on the wholesale level for shortages of MET supplies of up to greater than 50%. The formula takes into account a number of factors, such as the impact on retail customers, growth in population, changes in supply conditions, investments in local resources, demand hardening aspects of water conservation savings, recycled water, extraordinary storage and transfer actions, and groundwater imported water needs.

The formula is calculated in three steps: (1) based period calculations; (2) allocation year calculations; and (3) supply allocation calculations. The first two steps involve standard computations, while the third step contains specific methodology developed for the WSAP.

Step 1: Base Period Calculations - The first step in calculating a member agency's water supply allocation is to estimate their water supply and demand using a historical base period with established water supply and delivery data. The base period for each of the different categories of supply and demand is calculated using data from the two most recent non-shortage years.

Step 2: Allocation Year Calculations - The next step in calculating the member agency's water supply allocation is estimating water needs in the allocation year. This is done by adjusting the base period estimates of retail demand for population growth and changes in local supplies.

Step 3: Supply Allocation Calculations - The final step is calculating the water supply allocation for each member agency based on the allocation year water needs identified in Step 2.

In order to implement the WSAP, MET's Board of Directors makes a determination on the level of the regional shortage, based on specific criteria, typically in April. The criteria used by MET includes current levels of storage, estimated water supplies conditions, and projected imported water demands. The allocations, if deemed necessary, go into effect in July of the same year and remain in effect for a 12-month period. The schedule is made at the discretion of the Board of Directors (MET, 2026a).

As demonstrated by the findings in ET's 2025 UWMP both the Water Reliability Assessment and the Drought Risk Assessment (DRA) demonstrate that MET is projecting to be able to mitigate the challenges posed by hydrologic variability, potential climate change, and regulatory risk on its imported supply sources through the significant storage capabilities it has developed over the last two decades, both dry-year and emergency storage (MET, 2025). Although MET's 2025 UWMP forecasts that MET will be able to meet projected imported demands throughout the projected period from 2026 to 2050, uncertainty in supply conditions can result in MET needing to implement its WSAP to preserve dry-year storage and curtail demands (MET, 2026a).

SECTION 3 WATER SHORTAGE CONTINGENCY PREPAREDNESS AND RESPONSE PLANNING

The City's WSCP is a detailed guide of how the City intends to act in the case of an actual water shortage condition. The WSCP anticipates a water supply shortage and provides pre-planned guidance for managing and mitigating a shortage. Regardless of the reason for the shortage, the WSCP based on adequate details of demand reduction and supply augmentation measures that are structured to match varying degrees of shortage to ensure the relevant stakeholders understand what to expect during a water shortage situation.

3.1 Water Supply Reliability Analysis

Per Water Code Section 10632 (a)(1), the WSCP shall provide an analysis of water supply reliability conducted pursuant to Water Code Section 10635, and the key issues that may create a shortage condition when looking at the City's water asset portfolio.

Understanding water supply reliability, factors that could contribute to water supply constraints, availability of alternative supplies, and what effect these have on meeting customer demands provides the City with a solid basis on which to develop appropriate and feasible response actions in the event of a water shortage. For the 2025 UWMP, the City worked collaboratively with MWDOC and OCWD to produce long-term projected water use over the next 25 years, in 5-year increments, for a normal water year, a single dry water year, and a drought lasting 5 consecutive water years (MWDOC, 2025).

The City also conducted a DRA to evaluate a drought period that lasts five consecutive water years starting from the year following when the assessment is conducted (2026-2030). An analysis of both assessments determined that the City is capable of meeting all customers' demands from 2025 through 2050 for a normal year, a single dry year, and a drought lasting five consecutive years with significant imported water supplemental drought supplies from MET and ongoing conservation program efforts. As a result, there is no projected shortage condition due to drought that will trigger customer demand reduction actions until MET notifies the City of insufficient imported supplies. More information is available in the City's 2025 UWMP Sections 6 and 7 (Fullerton, 2026).

3.2 Annual Water Supply and Demand Assessment Procedures

Per Water Code Section 10632.1, the City will conduct an AWSDA pursuant to subdivision (a) of Section 10632 and by July 1st of each year, beginning in 2022, submit an annual water shortage assessment with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the Supplier's WSCP.

The City must include in its WSCP the procedures used for conducting an AWSDA. The AWSDA is a determination of the near-term outlook for supplies and demands and how a perceived shortage may relate to WSCP shortage stage response actions in the current calendar year. This determination is based on information available to the City at the time of the analysis. Starting in 2022, the AWSDA is due by July 1 of every year.

This section documents the decision-making process required for formal approval of the City's AWSDA determination of water supply reliability each year and the key data inputs and the methodologies used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

3.2.1 Decision-Making Process

The following decision-making process describes the functional steps that the City will take to formally approve the AWSDA determination of water supply reliability each year.

3.2.1.1 City Steps to Approve the AWSDA Determination

The AWSDA will be predicated primarily on the OCWD Basin Production Percentage (BPP) and secondarily on MET's AWSDA outcomes. Figure 4 shows the AWSDA reporting timeline for the City of Fullerton.

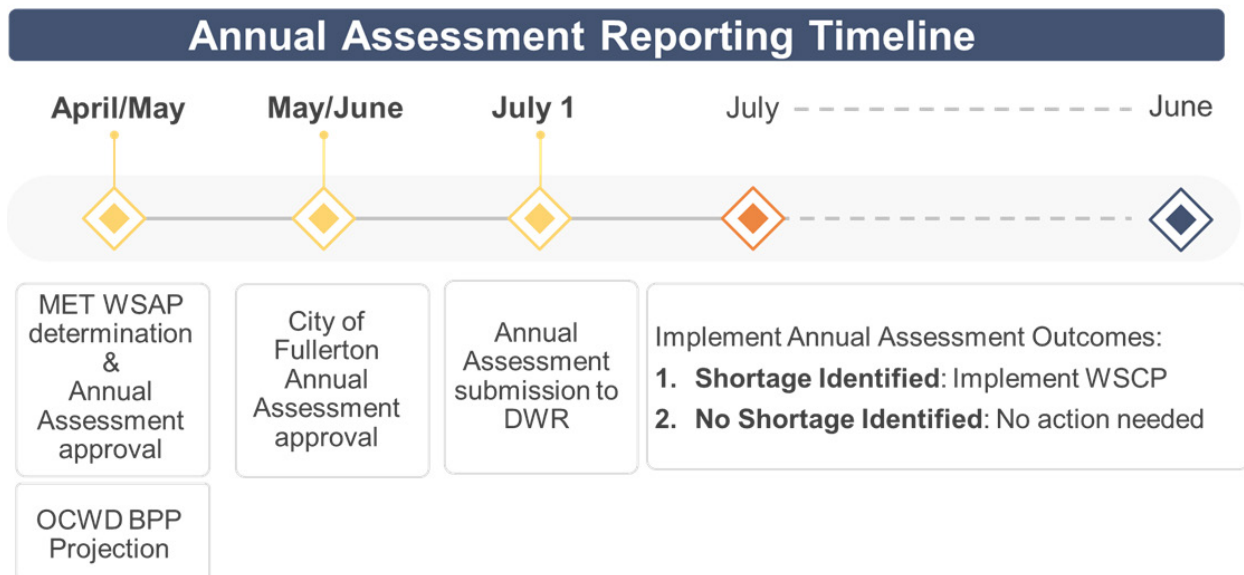


Figure 4 AWSDA Reporting Timeline

The City produces local groundwater from the OC Basin managed by OCWD. The OC Basin is not adjudicated and as such, pumping from the OC Basin is managed through a process that uses financial incentives to encourage Groundwater Producers (Producers) to pump a sustainable amount of water. The framework for the financial incentives is based on establishing the BPP, the percentage of each Producer's total water supply that comes from groundwater pumped from the OC Basin. The BPP is set uniformly for all Producers by the OCWD on an annual basis. Based on the projected water demand and modeled water supply, over the long-term, OCWD anticipates sustainably supporting a BPP of 85%; however, volumes of groundwater and imported water may vary depending on OCWD's actual BPP projections. A supply reduction that may result from the annual BPP projection will be included in the AWSDA.

While the City's primary source of water is OCWD groundwater, any remaining source to meet retail demands comes from the purchase of imported water from MET. As a direct MET member, the AWSDA will be predicated on MET's WSDM supply and demand tracking, which is reported monthly to their Board of Directors. MET WSDM planning involves the examination of developing demand and supply conditions

for the calendar year, as well as considerations of potential actions consistent with the WSDM Plan. Additionally, City staff simultaneously provide water supply and demand reports to MET to inform them of emerging demand and supply conditions. These monthly analyses provide key information for MET to manage resources to meet a range of estimated demands and adjust to changing conditions throughout the year. Based on the year's supply conditions and WSDM actions, MET will present a completed AWSDA for its member agencies' review from which they will then seek Board approval in April of each year. Additionally, MET expects that any triggers or specific shortage response actions that result from the AWSDA will be approved by their Board at that time and the information will be incorporated into the City's AWSDA.

The AWSDA findings will determine the approval process. If a shortage is identified, the AWSDA will be taken to City Council for approval and formally submitted to DWR prior to the July 1 deadline. If no shortage is identified, the AWSDA will be approved by the Public Works Director and formally submitted to DWR prior to the July 1 deadline.

3.2.2 Data and Methodologies

The following paragraphs document the key data inputs and methodologies that are used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

3.2.2.1 Assessment Methodology

The City will evaluate water supply reliability for the current year and one dry year for the purpose of the AWSDA. The AWSDA determination will be based on considerations of unconstrained water demand, local water supplies, MET imported water supplies, planned water use, and infrastructure considerations. The balance between projected in-service area supplies, coupled with MET imported supplies, and anticipated unconstrained demand will be used to determine what, if any, shortage level is expected under the WSCP framework as presented in Figure 5. The WSCP's standard shortage levels are defined in terms of shortage percentages. Shortage percentages will be calculated by dividing the difference between water supplies and unconstrained demand by total unconstrained demand. This calculation will be performed separately for anticipated current year conditions and for assumed dry year conditions.

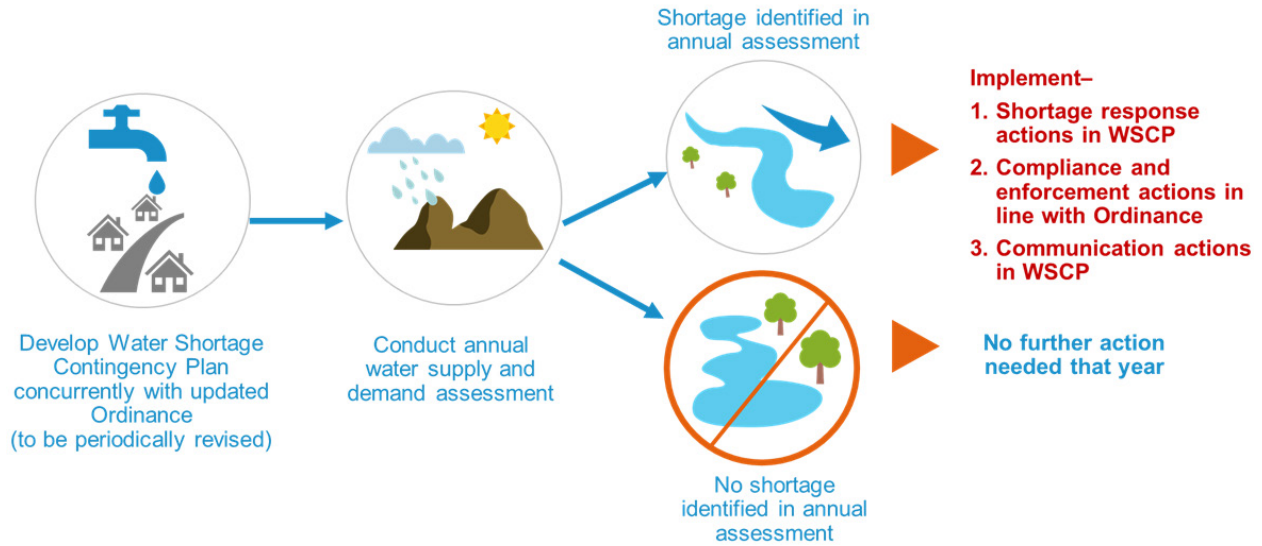


Figure 5 Water Shortage Contingency Plan AWSDA Framework

3.2.2.2 Locally Applicable Evaluation Criteria

Within Orange County, there are no significant local applicable criteria that directly affect reliability. Through the years, the water agencies in Orange County have made tremendous efforts to integrate their systems to provide flexibility to interchange with different sources of supplies. There are emergency agreements in place to ensure all parts of the County have an adequate supply of water. In the northern part of the County, agencies have the ability to meet a majority of their demands through groundwater with very little limitation, except for the OCWD BPP.

The City will also continue to monitor emerging supply and demand conditions related to supplemental imported water from MET and take appropriate actions consistent with the flexibility and adaptiveness inherent to the WSCP. The City's AWSDA was based on the City's service area, water sources, water supply reliability, and water use as described in Water Code Section 10631, including available data from state, regional, or local agency population, land use development, and climate change projections within the service area of the City. Some conditions that affect MET's wholesale supply and demand, such as groundwater replenishment, surface water and local supply production, can differ significantly from earlier projections throughout the year.

However, if a major earthquake on the San Andreas Fault occurs, it has the potential to damage all three key regional water aqueducts and disrupt imported supplies for up to six months. The region would likely impose a water use reduction ranging from 25-35% until the system is repaired. However, MET and MWDOC have taken proactive steps to handle such disruption, such as constructing DVL, and prepositioning necessary reconstruction resources to quickly recover from such a seismic event, which mitigates potential impacts. DVL, along with other local reservoirs, can store a six to twelve-month supply of emergency water (MET, 2026a).

3.2.2.3 Water Supply

As detailed in the City's 2025 UWMP, the City meets all of its customers' demands with a combination of local groundwater and imported water from MET. The City's main source of water supply is groundwater from the OC Basin, and imported water from MET makes up the rest of the City's water supply portfolio. In Fiscal Year (FY) 2024-25, the City relied on 63 percent groundwater and 37 percent imported water. The volume of groundwater decreased in FY 2024-25 from historical averages while volume of imported water increased due to groundwater wells being temporarily taken offline while per- and polyfluoroalkyl substances (PFAS) treatment facilities are constructed to address PFAS contamination of groundwater. It is projected that by 2050, the water supply portfolio will change to approximately 85 percent groundwater and 15% imported water as PFAS treatment facilities are completed. (Fullerton, 2026).

3.2.2.4 Unconstrained Customer Demand

The WSCP and AWSDA define unconstrained demand as expected water use prior to any projected shortage response actions that may be taken under the WSCP. Unconstrained demand is distinguished from observed demand, which may be constrained by preceding, ongoing, or future actions, such as emergency supply allocations during a multi-year drought. WSCP shortage response actions to constrain demand are inherently extraordinary; routine activities such as ongoing conservation programs and regular operational adjustments are not considered as constraints on demands.

The City's DRA reveals that its supply capabilities are expected to balance anticipated total water use and supply, assuming a five-year consecutive drought from FY 2025-26 through FY 2029-30 (Fullerton, 2026). Water demands in a five-year consecutive drought are calculated as a 7% increase in water demand above a normal year for each year of the drought (MWDOC, 2025).

For the City, the five consecutive dry year demand scenario is based on the demand model's multiple dry year methodology. In accordance with the econometric demand model approach used to develop UWMP demand projections, a single hot/dry year was first identified based on weather conditions that produced the greatest demand response. Consecutive dry years were then represented by applying incremental scaling factors to this single hot/dry year demand to account for the compounding effects of persistent warm and dry conditions over time. These scaling factors show long-term relationships between regional water use and multi-year temperature and precipitation deficits and are applied sequentially to simulate second through fifth consecutive dry years. This approach is consistent with the demand modeling framework summarized in Chapter 7 of the City's UWMP.

3.2.2.5 Planned Water Use for Current Year Considering Dry Subsequent Year

Water Code Section 10632(a)(2)(B)(ii) requires the AWSDA to determine "current year available supply, considering hydrological and regulatory conditions in the current year and one dry year."

The AWSDA will include two separate estimates of City's annual water supply and unconstrained demand using: (1) current year conditions; and (2) assumed dry year conditions. Accordingly, the AWSDA's shortage analysis will present separate sets of findings for the current year and dry year scenarios. The Water Code does not specify the characteristics of a dry year, allowing discretion to the Supplier. The City will use its discretion to refine and update its assumptions for a dry-year scenarios in each AWSDA as information becomes available and in accordance with best management practices.

Supply and demand analyses for the single-dry year case was based on conditions affecting the SWP as this supply availability fluctuates the most among MET's, and therefore the City's sources of supply. Severe drought conditions in 2021-2022 affected most of the Western United States, including the Colorado River system, which caused its water supply decrease. As conditions worsened, Lake Mead and Lake Powell (the largest storage units in the system), had a combined total storage capacity of 25 percent in 2022, a significant decrease from 39% in 2021 (MWDOC, 2026).

The Orange County Water Demand Projection Model isolated the impacts that weather and future climate can have on water demand through the use of a statistical model. The impacts of hot/dry weather conditions are reflected as a percentage increase in water demands from the normal year condition. For a single dry year condition (FY 2013-14), the model projects a 5% increase in demand for the OC Basin area where the City's service area is located (MWDOC, 2025). Detailed information of the model is included in the City's 2025 UWMP.

The City has documented that it is 100 percent reliable for single dry year demands from 2025 through 2050 with a demand increase of 7 percent from normal demand with significant reserves held by MET, local groundwater supplies, and conservation (Fullerton, 2026).

3.2.2.6 Infrastructure Considerations

The AWSDA will include consideration of any infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity.

In partnership with OCWD, the City is in the process of constructing two PFAS Treatment Plants, each designed to treat at least two wells. The City also currently operates two PFAS Treatment Plants one of which is undergoing an expansion to accommodate well 7A, scheduled to come online May 2026.

The City is in the planning stages to drill a new well in the Fullerton service area. This well is expected to produce around 3,000 gallons per minute of flow and is estimated to be drilled by the end of 2028.

The City experiences, on average, approximately 100 water main breaks per year. These breaks often cause temporary water shutoffs to its customers. The City is planning to increase the rate of pipe replacement to a 60-year replacement cycle to reduce the rate of main breaks in the future.

3.2.2.7 Other Factors

The Orange County North Basin Superfund Site is a six-and-a-half-square-mile portion of the groundwater aquifer located under the City, Anaheim, and Placentia. Manufacturing industries operating primarily in the 1950s, 1960s, and 1970s have left a legacy of industrial pollutants, mainly volatile organic compounds (VOCs), at their former factories. These VOCs have migrated through soils and have leached into the underlying groundwater.

Currently, OCWD is conducting a Remedial Investigation/Feasibility Study under the oversight of the US Environmental Protection Agency (EPA). The City continues to closely monitor VOC levels in all of its wells.

Per- and polyfluoroalkyl substances (PFAS) are a group of thousands of manmade chemicals that includes perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). PFAS compounds were once commonly used in many products including, among many others, stain- and water-repellent fabrics,

nonstick products (e.g., Teflon), polishes, waxes, paints, cleaning products, and fire-fighting foams. Beginning in the summer of 2019, the California State Division of Drinking Water (DDW) began requiring testing for PFAS compounds in some groundwater production wells in the OCWD area.

MET has voluntarily monitored PFAS in its source and treated waters since 2017. Most samples have shown non detect (ND) for all tested PFAS, including PFOA and PFOS. A limited number of other PFAS—such as PFHxA, PFBA, PFPeA, PFDoA, PFTA, and PFBS, have been detected only at trace levels below their method detection limits. PFOA and PFOS have not been detected in MET's imported or treated water supplies. Some member agencies, however, have detected these compounds in local groundwater wells, which may require treatment or source management to comply with emerging DDW regulations. As DDW and EPA establish enforceable maximum contaminant levels (MCLs) for PFOA and PFOS, some agencies may supplement their local supplies with increased purchases of MET water (MET, 2026b).

EPA finalized the first national drinking water standards for six PFAS compounds in April 2024. These standards include enforceable MCLs for PFOA and PFOS set at 4 parts per trillion (ppt). In May 2025 the EPA announced that it would extend the compliance deadline for PFOA and PFOS from 2029 to 2031 to provide additional time for testing, planning, and installation of treatment technologies. While MET and its member agencies continue to monitor and test PFAS in imported and local sources, the delay in the federal compliance date allows additional time to evaluate treatment options, coordinate funding, and plan system upgrades necessary to meet forthcoming federal PFAS standards.

PFAS have been detected in the OC Basin in very small amounts (parts per trillion), entering primarily via the Santa Ana River whose flows infiltrate into the basin. Despite playing no role in releasing PFAS into the environment, OCWD is working with its cities and retail water districts to remove it from local water supplies in order to comply with new state and federal regulations. More than 100 wells have been impacted due to various state and federal regulations. Fifteen impacted agencies will have to temporarily purchase more costly imported water to replace PFAS contaminated supplies. As of 2025, 53 impacted wells are back online due to close to a billion dollars being spent on state-of-the-art testing, research and piloting of different treatment systems, and design and construction of treatment plants that are now operational.

3.3 Six Standard Water Shortage Levels

Per Water Code Section 10632 (a)(3)(A), Suppliers must include the six standard water shortage levels that represent shortages from the normal reliability as determined in the AWSDA or cross-reference their shortage levels to the standard levels. The shortage levels have been standardized to provide a consistent regional and statewide approach to conveying the relative severity of water supply shortage conditions. This is an outgrowth of the severe statewide drought of 2012-2016, and the widely recognized public communication and state policy uncertainty associated with the many different local definitions of water shortage levels.

The six standard water shortage levels correspond to progressively increasing estimated shortage conditions (up to 10%, 20%, 30%, 40%, 50%, and greater than 50% shortage compared to the normal reliability condition) and align with the response actions the Supplier would implement to meet the severity of the impending shortages (Table 1).

Table 1 Cross-Reference for Standard vs Supplier Shortage Levels

Submittal Table 8-1: Cross-reference for Standard vs Supplier Shortage Levels Water Code Section 10632(a)(3)(B)			
<input checked="" type="checkbox"/>	Check the box if the Supplier uses the Standard six levels of water shortage. Proceed to the next table.		
Standard Shortage Levels	Percent Shortage Range	Suppliers Shortage Levels	Percent Shortage Range
1	Up to 10%		
2	Up to 20%		
3	Up to 30%		
4	Up to 40%		
5	Up to 50%		
6	>50%		

NOTES:

3.4 Shortage Response Actions

Water Code Section 10632 (a)(4) requires the WSCP to specify shortage response actions that align with the defined shortage levels. The City has defined specific shortage response actions that align with the defined shortage levels in DWR Tables 8-2 and 8-3 (Appendix A). These shortage response actions were developed with consideration to the system infrastructure and operations changes, supply augmentation responses, customer-class or water use-specific demand reduction initiatives, and increasingly stringent water use prohibitions.

3.4.1 Supply Augmentation

The supply augmentation actions are described in DWR Table 8-2 (Appendix A). These augmentations represent short-term management objectives triggered by the MET's WSDM Plan and do not overlap with the long-term new water supply development or supply reliability enhancement projects. Supply Augmentation is made available to the City through MET and OCWD. The City has the ability to pump additional groundwater from the OC Basin or purchase additional imported water from MET as a MET member agency. However, both additional pumped groundwater and purchased imported water are subject to rate penalties from OCWD and MET, respectively.

MET's reliability portfolio of water supply programs including existing water transfers, storage, and exchange agreements to supplement gaps in the City's supply/demand balance. MET has developed significant storage capacity (over 5 million AF) in reservoirs and groundwater banking programs both within and outside of the Southern California region. Additionally, MET can pursue additional water transfer and exchange programs with other water agencies to help mitigate supply/demand imbalances and provide additional dry-year supply sources.

3.4.2 Demand Reduction

The demand reduction measures that would be implemented to address shortage levels are described in DWR Table 8-3 (Appendix A). This table indicates which actions align with specific defined shortage levels and estimates the extent to which the actions will reduce the gap between supplies and demands to

deliver the outcomes necessary to meet the requirements of a given shortage level. This table also identifies the enforcement action, if any, associated with each demand reduction measure.

3.4.3 Operational Changes

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. The City considered their operational procedures to identify changes that can be implemented to address water shortage on a short-term basis, such as temporarily altering maintenance cycles, deferring planned system outages, and adjusting the flow and routing of water through its system to more effectively distribute available supply across the service area.

3.4.4 Additional Mandatory Restrictions

Water Code Section 10632(a)(4)(D) calls for "additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions" to be included among the WSCP's shortage response actions. The City will identify additional mandatory restrictions as needed based on the existing Fullerton Municipal Code Chapter 12.06 Water Supply Shortage Conservation Plan (Appendix B). The City intends to update any mandatory restrictions in a subsequently adopted ordinance which will supersede the existing ordinance.

3.4.5 Emergency Response Plan (Hazard Mitigation Plan)

A catastrophic water shortage would be addressed according to the appropriate water shortage level and response actions. It is likely that a catastrophic shortage would immediately trigger Shortage Level 6 and response actions have been put in place to mitigate a catastrophic shortage. In addition, there are several Plans that address catastrophic failures and align with the WSCP, including MET's WSDM and WSAP, the City's LHMP, and the Water Emergency Response Organization of Orange County (WEROC) Emergency Operations Plan (EOP).

3.4.5.1 MET's WSDM and WSAP Plans

MET has comprehensive plans for stages of actions it would undertake to address a catastrophic interruption in water supplies through its WSDM and WSAP. MET also developed an Emergency Storage Requirement to mitigate against potential interruption in water supplies resulting from catastrophic occurrences within the Southern California region, including seismic events along the San Andreas Fault. In addition, MET is working with the state to implement a comprehensive improvement plan to address catastrophic occurrences outside of the Southern California region, such as a maximum probable seismic event in the Sacramento-San Joaquin River Delta that would cause levee failure and disruption of SWP deliveries.

The City is a participant of MET's Member Agency Response System (MARS). The City can communicate via two-way radio with the MET and its member agencies in extreme circumstances such as an earthquake, flood, fire, or a regional disaster to request or offer assistance, use certain facilities and equipment, and to request the service of certain personnel.

3.4.5.2 Water Emergency Response of Orange County Emergency Operations Plan

In 1983, the Orange County water community identified a need to develop a plan on how agencies would respond effectively to disasters impacting the regional water distribution system. The collective efforts of these agencies resulted in the formation of WEROC to coordinate emergency response on behalf of all Orange County water and wastewater agencies, develop an emergency plan to respond to disasters, and conduct disaster training exercises for the Orange County water community. WEROC, administered by MWDOC, was established through the creation of an indemnification agreement among its member agencies to protect each other against civil liabilities and to facilitate the exchange of resources. WEROC is unique in its ability to provide a single point of contact for the representation of all water and wastewater utilities in Orange County during a disaster. This representation is to the county, state, and federal disaster coordination agencies. Within the Orange County Operational Area, WEROC is the recognized contact for emergency response for the water community, including the City.

As a member of WEROC, the City will follow WEROC's EOP in the event of an emergency and coordinate with WEROC to assess damage, initiate repairs, and request and coordinate mutual aid resources in the event that the City is unable to provide the level of emergency response support required by the situation.

The EOP defines the actions to be taken by WEROC Emergency Operations Center (EOC) staff to reduce the loss of water and wastewater infrastructure; to respond effectively to a disaster; and to coordinate recovery operations in the aftermath of any emergency involving extensive damage to Orange County water and wastewater utilities. The EOP includes activation notification protocol that will be used to contact partner agencies to inform them of the situation, activation status of the EOC, known damage or impacts, or resource needs. The EOP is a standalone document that is reviewed annually and approved by the MWDOC Board every three years.

WEROC is organized on the basis that each member agency is responsible for developing its own EOP in accordance with the California Standardized Emergency Management System (SEMS), National Incident Management System (NIMS), and Public Health Security and Bioterrorism Preparedness and Response Act of 2002 to meet specific emergency needs within its service area.

The WEROC EOC is responsible for assessing the overall condition and status of the Orange County regional water distribution and wastewater collection systems including MET facilities that serve Orange County. The EOC can be activated during an emergency situation resulting from both natural and man-made causes, and can be activated through automatic, manual, or standby for activation.

WEROC recognizes four primary phases of emergency management, which include:

- **Preparedness:** Planning, training, and exercises that are conducted prior to an emergency to support and enhance response to an emergency or disaster.
- **Response:** Activities and programs designed to address the immediate and short-term effects of the onset of an emergency or disaster that helps to reduce effects on water infrastructure and speed recovery. This includes alert and notification, EOC activation, direction and control, and mutual aid.
- **Recovery:** This phase involved restoring systems to normal, in which short-term recovery actions are taken to assess the damage and return vital life-support systems to minimum operating standards, while long-term recovery actions have the potential to continue for many years.
- **Mitigation/Prevention:** These actions prevent the occurrence of an emergency or reduce the area's vulnerability in ways that minimize the adverse impacts of a disaster or emergency.

The EOC Action Plans provide frameworks for EOC staff to respond to different situations with the objectives and steps required to complete them, which will in turn serve the WEROC member agencies. In the event of an emergency that results in a catastrophic water shortage, the City will declare a water shortage condition of up to Level 3 for the impacted area depending on the severity of the event, and coordination with WEROC is anticipated to begin at Level 4 or greater (WEROC, 2021).

3.4.5.3 City of Fullerton Emergency Response Plan

The City will also refer to its current American Water Infrastructure Act Risk and Resilience Assessment and Emergency Response Plan in the event of a catastrophic supply interruption. (Fullerton, 2026).

3.4.6 Seismic Risk Assessment and Mitigation Plan

Per the Water Code Section 10632.5, Suppliers are required to assess seismic risk to water supplies as part of their WSCP. The plan also must include the mitigation plan for the seismic risk(s). Given the great distances that imported supplies travel to reach Orange County, the region is vulnerable to interruptions along hundreds of miles of aqueducts, pipelines and other facilities associated with delivering the supplies to the region. Additionally, the infrastructure in place to deliver supplies is susceptible to damage from earthquakes and other disasters.

In lieu of conducting a seismic risk assessment specific to the City's 2025 UWMP, the City has included their LHMPs required under the federal Disaster Mitigation Act of 2000 (Public Law 106-390). The LHMP describes the City's approach to proactively decreasing threats before disaster occurs, including water supply specific mitigation actions such as supporting regional and subregional efforts to safeguard water infrastructure and supporting projects, programs, policies, and regulations to maintain adequate water supply as well as adequate water quality. (Fullerton, 2020).

3.4.7 Shortage Response Action Effectiveness

For each specific Shortage Response Action identified in the plan, the WSCP also estimates the extent to which that action will reduce the gap between supplies and demands identified in DWR Tables 8-2 and 8-3 (Appendix A). To the extent feasible, the City has estimated percentage savings for the chosen suite of shortage response actions, which can be anticipated to deliver the expected outcomes necessary to meet the requirements of a given shortage level.

3.5 Communication Protocols

Timely and effective communication is a key element of the WSCP implementation. Per the Water Code Section 10632 (a)(5), the City has established communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments regarding any current or predicted shortages as determined by the AWSDA described pursuant to Section 10632.1; any shortage response actions triggered or anticipated to be triggered by the AWSDA described pursuant to Section 10632.1; and any other relevant communications. The City's Water Shortage Communication Plan is documented in Appendix C.

3.6 Compliance and Enforcement

Per the Water Code Section 10632 (a)(6), the City has defined customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions. Communication procedures to ensure customer compliance are described in Section 3.5 and customer enforcement, appeal, and exemption procedures are defined in the Fullerton Municipal Code Chapter 12.06 Water Supply Shortage Conservation Plan (Appendix B). The City intends to update as needed existing enforcement procedures in a subsequently adopted ordinance which will supersede the existing ordinance.

3.7 Legal Authorities

Per Water Code Section 10632 (a)(7)(A), the City has provided a description of the legal authorities that empower the City to implement and enforce its shortage response in the Fullerton Municipal Code Chapter 12.06d Water Supply Shortage Conservation Plan (Appendix B).

Per Water Code Section 10632 (a)(7) (B), the City shall declare a water shortage emergency condition to prevail within the area served by such wholesaler 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.

Per Water Code Section 10632 (a)(7)(C), the City shall coordinate with any agency or county within which it provides water supply services for the possible proclamation of a local emergency under California Government Code, California Emergency Services Act (Article 2, Section 8558). Table 2 identifies the contacts for all cities or counties for which the Supplier provides service in the WSCP, along with developed coordination protocols, can facilitate compliance with this section of the Water Code in the event of a local emergency as defined in subpart (c) of Government Code Section 8558.

Table 2 Agency Contacts and Coordination Protocols

Contact	Agency	Coordination Protocols
714-433-6011	Orange County Health Care Agency	Contact Agency Director to coordinate conservation efforts
714-765-3300	Anaheim	Contact City Manager to coordinate conservation efforts
714-990-7687 or 714-990-7911	Brea	Contact City Manager to coordinate conservation efforts
714-528-1462	Golden State Water Company	Contact General Manager to coordinate conservation efforts
562-905-9750 or 562-905-9769	La Habra	Contact City Manager to coordinate conservation efforts
562-944-8219	Suburban Water System	Contact General Manager to coordinate conservation efforts

3.8 Financial Consequences of WSCP

Per Water Code Section 10632(a)(8), Suppliers must include a description of the overall anticipated financial consequences to the Supplier of implementing the WSCP. This description must include potential reductions in revenue and increased expenses associated with implementation of the shortage response actions. This should be coupled with an identification of the anticipated mitigation actions needed to address these financial impacts. Table 3 shows the revenue impact analysis of the respective WSCP levels for the City of Fullerton.

Table 3 Revenue Impact Analysis

Demand	Baseline (Normal Year)	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		10%	20%	30%	40%	50%	>50%
Water Produced / Purchased (AF)	23,799	21,419	19,039	16,659	14,279	11,900	11,900 max.
Water Losses (AF)	1,293	1,164	1,034	905	776	647	647 max.
Water Sales (AF)	22,506	20,255	18,005	15,754	13,504	11,253	11,253 max.
Revenue							
Commodity Rate (\$/1000 Gal)	Tier 1: 2.60 Tier 2: 5.30 Tier 3: 5.73 Fixed: 3.30	Tier 1: 2.60 Tier 2: 5.30 Tier 3: 5.73 Fixed: 3.30	Tier 1: 2.60 Tier 2: 5.30 Tier 3: 5.73 Fixed: 3.30	Tier 1: 2.60 Tier 2: 5.30 Tier 3: 5.73 Fixed: 3.30	Tier 1: 2.60 Tier 2: 5.30 Tier 3: 5.73 Fixed: 3.30	Tier 1: 2.60 Tier 2: 5.30 Tier 3: 5.73 Fixed: 3.30	Tier 1: 2.60 Tier 2: 5.30 Tier 3: 5.73 Fixed: 3.30
Commodity Revenue	23,987,517	21,588,766	19,190,014	16,791,262	14,392,510	11,993,759	11,993,759 max.
Fixed Monthly Charge Revenue	18,049,200	18,049,200	18,049,200	18,049,200	18,049,200	18,049,200	18,049,200
Total Rate Revenue	42,036,718	39,637,966	37,239,214	34,840,463	32,441,711	30,042,959	30,042,959 max.
Revenue Lost		\$2,398,752	\$4,797,503	\$7,196,255	\$9,595,007	\$11,993,759	\$11,993,759 min.
Variable Costs							
Sources of Supply, Pumping, Treatment (\$)	17,019,303	15,317,372	13,615,442	11,913,512	10,211,582	8,509,651	8,509,651 max.
Unit Costs (\$/AF)	715	715	715	715	715	715	715
Avoided Costs		\$1,701,930	\$3,403,861	\$5,105,791	\$6,807,721	\$8,509,651	\$8,509,651 min.
Net Revenue Change		\$696,821	\$1,393,643	\$2,090,464	\$2,787,286	\$3,484,107	\$3,484,107 min.
Rate Revenue Increase Required⁽¹⁾		1.76%	3.74%	6.00%	8.59%	11.60%	11.60% min.

Notes:

(1) The City does not have water supply shortage rates.

During a catastrophic interruption of water supplies, prolonged drought, or water shortage of any kind, the City will experience a reduction in revenue due to reduced water sales. Throughout this period of time, expenditures may increase or decrease with varying circumstances. Expenditures may increase in the event of significant damage to the water system, resulting in emergency repairs. Expenditures may also decrease as less water is pumped through the system, resulting in lower power costs. Water shortage mitigation actions will also impact revenues and require additional costs for drought response activities such as increased staff costs for tracking, reporting, and communications.

The City receives water revenue from a service charge and a commodity charge based on consumption. The service charge recovers costs associated with providing water to the serviced property. The service charge does not vary with consumption and the commodity charge is based on water usage. Rates have been designed to recover the full cost of water service in the charges. Therefore, the total cost of purchasing water would decrease as the usage or sale of water decreases. In the event of a drought emergency, the City will impose excessive water use penalties on its customers, which may include additional costs associated with reduced water revenue, staff time taken for penalty enforcement, and advertising the excessive use penalties. The excessive water use penalties are further described in the City's Municipal Code Chapter 12.06 Water Supply Shortage Conservation Plan (Appendix B).

However, there are significant fixed costs associated with maintaining a minimal level of service. The City will monitor projected revenues and expenditures should an extreme shortage and a large reduction in water sales occur for an extended period of time. To overcome these potential revenue losses and/or expenditure impacts, the City may use reserves. If necessary, the City may reduce expenditures by delaying implementation of its Capital Improvement Program and equipment purchases to reallocate funds to cover the cost of operations and critical maintenance, adjust the work force, implement a drought surcharge, and/or make adjustments to its water rate structure.

Based on current water rates, a volumetric cutback of up to 50% and above of water sales may lead to a range of reductions in revenues. The impacts to revenues will depend on a proportionate reduction in variable costs related to supply, pumping, and treatment for the specific shortage event. The City has set a plan to modify the water rate structure in a way that stabilizes revenue during times of drought by increasing the fixed revenue.

3.9 Monitoring and Reporting

Per Water Code Section 10632(a)(9), the City is required to provide a description of the monitoring and reporting requirements and procedures that have been implemented to ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

Monitoring and reporting key water use metrics is fundamental to water supply planning and management. Monitoring is also essential in times of water shortage to ensure that the response actions are achieving their intended water use reduction purposes, or if improvements or new actions need to be considered (see Section 3.10). Monitoring for customer compliance tracking is also useful in enforcement actions.

Under normal water supply conditions, potable water production figures are recorded daily. Monthly reports are prepared and monitored. This data will be used to measure the effectiveness of any water shortage contingency level that may be implemented. As levels of water shortage are declared by MET,

the City will follow implementation of those levels as appropriate based on the City's risk profile provided in UWMP Chapter 6 and continue to monitor water demand levels. When MET calls for extraordinary conservation, MET's Drought Program Officer will coordinate public information activities with the City and monitor the effectiveness of ongoing conservation programs.

The City will participate in regular meetings with local agencies to monitor and discuss monthly water allocation charts. This will enable the City to be aware of import and groundwater use on a timely basis as a result of specific actions taken responding to the City's WSCP.

3.10 WSCP Refinement Procedures

Per Water Code Section 10632 (a)(10), the City must provide 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.

The City's WSCP is prepared and implemented as an adaptive management plan. The City will use the monitoring and reporting process defined in Section 3.9 to refine the WSCP. In addition, if certain procedural refinements or new actions are identified by City staff, or suggested by customers or other interested parties, the City will evaluate their effectiveness, incorporate them into the WSCP, and implement them quickly at the appropriate water shortage level.

It is envisioned that the WSCP will be periodically re-evaluated to ensure that its shortage risk tolerance is adequate, and the shortage response actions are effective and up to date based on lessons learned from implementing the WSCP. The WSCP will be revised and updated during the UWMP update cycle to incorporate updated and new information. For example, new supply augmentation actions will be added, and actions that are no longer applicable for reasons such as program expiration will be removed. However, if revisions to the WSCP are warranted before the UWMP is updated, the WSCP will be updated outside of the UWMP update cycle. In the course of preparing the AWSDA each year, City staff will routinely consider the functionality the overall WSCP and will prepare recommendations for City Council if changes are found to be needed.

3.11 Special Water Feature Distinction

Per Water Code Section 10632 (b), the City has defined water features in 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, in the City's Municipal Code Chapter 12.06 Water Supply Shortage Conservation Plan (Appendix B).

3.12 Plan Adoption, Submittal, and Availability

Per Water Code Section 10632 (a)(c), the City provided notice of the availability of the Public Review Draft 2025 UWMP and 2025 WSCP and notice of the public hearing to consider adoption of the WSCP. The Public Review drafts of the 2025 UWMP and the 2025 WSCP were posted prominently on the City's [website](#) 14 days in advance of the public hearing on May 5, 2026. Copies of the Draft WSCP were also made available for public inspection at the City Clerk's and Utilities Department offices and public hearing notifications were published in local newspapers. A copy of the published Notice of Public Hearing is included in Appendix D.

The City held the public hearing for the Draft 2025 UWMP and Draft WSCP on May 5, 2026 at the City Council meeting. The City Council reviewed and approved the 2025 UWMP and the WSCP at its May 5, 2026 meeting after the public hearing. See Appendix E for the resolution approving the WSCP.

By July 1, 2026, the City's adopted 2025 UWMP and WSCP was filed with DWR, California State Library, and the County of Orange. The City will make the WSCP available for public review on its website no later than 30 days after filing with DWR.

Based on DWR's review of the WSCP, the City will make any amendments to its adopted WSCP, as required and directed by DWR.

If the City revises its WSCP after the UWMP is approved by DWR, then an electronic copy of the revised WSCP will be submitted to DWR within 30 days of its adoption.

SECTION 4 REFERENCES

City of Fullerton. (2026). *2025 Urban Water Management Plan*.

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Water Emergency Response Organization of Orange County (WEROC). (2025). *WEROC 2025 Annual Report*.

APPENDIX A **DWR SUBMITTAL TABLES**

Submittal Table 8-1: Cross Reference for Standard vs Supplier Shortage Level

Submittal Table 8-1: Cross-reference for Standard vs Supplier Shortage Levels Water Code Section 10632(a)(3)(B)			
<input checked="" type="checkbox"/> Check the box if the Supplier uses the Standard six levels of water shortage. Proceed to the next table.			
Standard Shortage Levels	Percent Shortage Range	Suppliers Shortage Levels	Percent Shortage Range
1	Up to 10%		
2	Up to 20%		
3	Up to 30%		
4	Up to 40%		
5	Up to 50%		
6	>50%		
NOTES:			

Submittal Table 8-2: Supply Augmentation and Other Actions

Submittal Table 8-2 Retail: Supply Augmentation and Other Actions Water Code Section 10632(a)(4)(A),(C) and (E)				
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)			
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)	
Add additional rows as needed				
0-6	Other Actions (describe)	Percentage	0-100%	Pump additional groundwater from OC Groundwater Basin (short-term shortage) with rate penalty
0-6	Other Actions (describe)	Percentage	1-100%	Purchase additional imported water from MET with rate penalty
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.				
NOTES: Both additional pumped groundwater and purchased imported water are subject to rate penalties from OCWD and MET.				

Submittal Table 8-3: Demand Reduction Actions

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
Add additional rows as needed					
0	Landscape - Prohibit certain types of landscape irrigation		Statewide Prohibition is Required	Watering or irrigation of nonfunctional turf (NFT) on State and local government properties, commercial, industrial, and institutional owned landscapes, homeowners' associations common area landscapes, and local government facilities in disadvantaged communities (DAC) is prohibited. See Note 1 below.	No
0	Other water feature or swimming pool restriction	Percentage	0	All decorative water features must recirculate water or users must secure a waiver from the City.	Yes
0	Other	Percentage	0	Washing or hosing down vehicles is prohibited except by use of a handheld container, hose with an automatic shut off device, or at a commercial car wash.	Yes
0	Other - Prohibit use of potable water for washing hard surfaces	Percentage	0	Washing hard or paved surfaces is prohibited except to alleviate safety or sanitary hazards using a handheld container, hose with an automatic shut off device, or a low-volume high pressure cleaning machine that recycles used water.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
0	Landscape - Restrict or prohibit runoff from landscape irrigation	Percentage	0	Watering vegetated areas in a manner that causes excessive water flow or runoff onto an adjoining sidewalk, driveway, street, alley, gutter, or ditch is prohibited.	Yes
0	Landscape - Other landscape restriction or prohibition	Percentage	0	Irrigating ornamental turf on public street medians is prohibited. No landscape watering shall occur within 48 hours after measurable precipitation.	Yes
0	Landscape - Limit landscape irrigation to specific times	Percentage	0	Watering or irrigation with a device that is not continuously attended to is limited to fifteen (15) minutes per day per valve. Low flow drip type systems, water efficient steam rotor systems.	Yes
0	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	Percentage	0	Fix leaks or faulty sprinkler promptly/within 3 day(s)	Yes
0	CII - Other CII restriction or prohibition	Percentage	0	No single pass cooling systems may be installed in new or remodeled buildings.	Yes
0	CII - Commercial kitchens required to use pre-rinse spray valves	Percentage	0	All new commercial car wash and laundry facilities must re-circulate the wash waster or obtain a waiver from the City.	Yes
0	Other - Require automatic shut of hoses	Percentage	0	Use a shutoff nozzle on hoses.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
0	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	Percentage	0	Food preparation establishments must use water efficient kitchen spray valves.	Yes
0	Other	Percentage	0	Unauthorized use of hydrants is prohibited. Authorization for use must be obtained from water supplier.	Yes
1	Expand Public Information Campaign	Percentage	0-1%	Community outreach and messaging (Expand public information campaign), Encourage customers to wash only full loads when washing dishes or clothes. Encourage customers to use pool covers to minimize evaporation.	Yes
1	Landscape - Limit landscape irrigation to specific times	Percentage	0-5%	watering or irrigation of vegetated areas is prohibited between 9 am and 6 pm except by use of a handheld device, hose equipped with an automatic shutoff device, or for adjusting.	Yes
1	CII - Restaurants may only serve water upon request	Percentage	0-1%	CII- Restaurants may only serve water upon request.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
1	CII - Lodging establishment must offer opt out of linen service	Percentage	0-1%	CII- Lodging establishment must offer opt out of linen service	Yes
1	CII - Other CII restriction or prohibition	Percentage	0-1%	Commercial, industrial, institutional equipment must be properly maintained and in full working order.	Yes
1	Landscape - Prohibit certain types of landscape irrigation	Percentage	0-1%	All non-essential water use for nurseries, public entities, and commercial and industrial use should cease.	Yes
1	Offer Water Use Surveys	Percentage	0-1%	Offer water use surveys (offered through MET)	Yes
1	Provide Rebates on Plumbing Fixtures and Devices	Percentage	0-1%	Provide Rebates on Plumbing Fixtures and Devices (offered through MET)	Yes
1	Provide Rebates for Landscape Irrigation Efficiency	Percentage	0-1%	Provide Rebates for turf replacement (offered through MET)	Yes
1	Increase Water Waste Patrols	Percentage	0-1%	Increase water waste patrols	Yes
1	Other	Percentage	5-10%	Other prohibited uses: the city may implement other prohibited water uses as determined by the City, after notice to customers.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
2	Landscape - Limit landscape irrigation to specific days	Percentage	5-10%	Irrigation shall be limited to 3 days per week turf watering when using potable water. Plant containers, trees, shrubs, and vegetable gardens may be watered additional days using only drip irrigation or hand watering.	Yes
2	Water Features - Restrict water use for decorative water features, such as fountains	Percentage	0-1%	Filling or refilling ornamental lakes and ponds is prohibited. Ornamental lakes and ponds that sustain aquatic life of significant value and were actively managed prior to the storage declaration are exempt.	Yes
2	Decrease Line Flushing	Percentage	0-1%	Decrease Line Flushing	Yes
2	Reduce System Water Loss	Percentage	0-5%	Real loss reduction - Pressure management and more aggressive leak detection and repair	Yes
2	Pools and Spas - Require covers for pools and spas	Percentage	0-1%	Pools and Spas - Require covers for pools and spas	Yes
2	Pools - Allow filling of swimming pools only when an appropriate cover is in place.	Percentage	0-1%	Pools- allow filling of swimming pools only when appropriate cover is in place.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
2	Other	Percentage	5-10%	Other prohibited uses: the city may implement other prohibited water uses as determined by the City, after notice to customers.	Yes
3	Other water feature or swimming pool restriction	Percentage	0-1%	Decorative water features that use potable water must be drained and kept dry.	Yes
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	Percentage	0-1%	Car washing is only permitted using a commercial carwash that recirculates water or by high pressure/low volume wash systems.	Yes
3	Other - Prohibit use of potable water for construction and dust control	Percentage	0-1%	Require a construction water use plan be submitted to the water supplier that addresses how impacts to existing water users will be mitigated (such as a dust control)	Yes
3	Landscape - Other landscape restriction or prohibition	Percentage	0-1%	With the exception of landscapes watered with non-potable water, limit the installation of new landscaping to drought tolerant trees, shrubs, and groundcover. Prohibit installation of new turf.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
3	Landscape - Limit landscape irrigation to specific days	Percentage	10-25%	Irrigation shall be limited to 2 days per week turf watering when using potable water. Plant containers, trees, shrubs, and vegetable gardens may be watered additional days using only drip irrigation or hand watering.	Yes
3	Other	Percentage	5-10%	Other prohibited uses: the city may implement other prohibited water uses as determined by the City, after notice to customers.	Yes
4	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	Percentage	0-1%	Fix leaks or faulty sprinkler promptly/within 2 day(s)	Yes
4	Other water feature or swimming pool restriction	Percentage	0-1%	No new permits for pools will be issued.	Yes
4	Landscape - Other landscape restriction or prohibition	Percentage	0-1%	No new landscape installations or renovations will be permitted.	Yes
4	Landscape - Prohibit all landscape irrigation	Percentage	0-1%	Previous waivers for watering during established period will be revoked.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
4	Landscape - Limit landscape irrigation to specific days	Percentage	5-20%	Irrigation shall be limited to 1 days per week turf watering when using potable water. Plant containers, trees, shrubs, and vegetable gardens may be watered additional days using only.	Yes
4	Other	Percentage	5-10%	Other prohibited uses: the city may implement other prohibited water uses as determined by the City, after notice to customers.	Yes
5	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	Percentage	0-1%	Fix leaks or faulty sprinklers within 1 day(s)	Yes
5	Other	Percentage	0-50%	Water for agricultural or commercial nursery purposes, except for livestock watering, is prohibited. Water use for public health safety purposes only.	Yes
5	Landscape - Prohibit all landscape irrigation	Percentage	0-1%	All irrigation is prohibited.	Yes
5	Landscape - Prohibit certain types of landscape irrigation	Percentage	0-1%	Watering of all golf course areas, parks, school grounds is prohibited, except for rare plant or animal species.	Yes

Submittal Table 8-3 Retail: Demand Reduction Actions Water Code Section 10632(a)(4)(B) and (E)					
Yes	Is the Supplier completing this table using the standard six levels? (yes/no)				
Shortage Level	Demand Reduction Actions Drop down list These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?		Additional Explanation or Reference (OPTIONAL)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
		Volume or Percentage Drop down	Shortage Gap Reduction Value (May be a range) (AF)		
5	Moratorium or Net Zero Demand Increase on New Connections	Percentage	0-2%	Moratorium or Net Zero Demand Increase on new connections	Yes
6	Other	Percentage	0-1%	The City may discontinue service to consumers who willfully violate any water conservation provisions.	Yes
6	Landscape - Prohibit all landscape irrigation	Percentage	0-5%	The City may shut off all non-essential water services. All irrigation is prohibited.	Yes
6	CII - Other CII restriction or prohibition	Percentage	0-15%	Water for commercial, manufacturing, or processing purposes shall be reduced in volume by up to 50% or exceeded if necessary for public health and safety purposes.	Yes
6	Other	Percentage	0-70%	Water use for public health and safety purposes only. Customer rationing may be implemented. Other prohibited uses: The City may implement other prohibited water uses as determined by the City, after notice to customers.	Yes
DWR NOTES: Units of measure (AF, CCF, MG) must remain consistent throughout the UWMP as reported in Submittal Table 2-3.					
NOTES: Note 1: NFT irrigation requirements begin January 1, 2027 for State and local government properties, January 1, 2028 for commercial, industrial, and institutional owned landscapes, January 1, 2029 for homeowners' associations common area landscapes, and January 1, 2031 for local government properties in disadvantaged communities (DAC).					

APPENDIX B

FULLERTON MUNICIPAL CODE CHAPTER 12.06 WATER SUPPLY SHORTAGE CONSERVATION PLAN

Below is the weblink to the current ordinance (last accessed on April 14, 2026)

https://codelibrary.amlegal.com/codes/fullerton/latest/fullerton_ca/0-0-0-6837

APPENDIX C

WATER SHORTAGE COMMUNICATION PLAN

APPENDIX D

NOTICE OF PUBLIC HEARING (PENDING)

APPENDIX E

ADOPTED WSCP RESOLUTION (PENDING)