

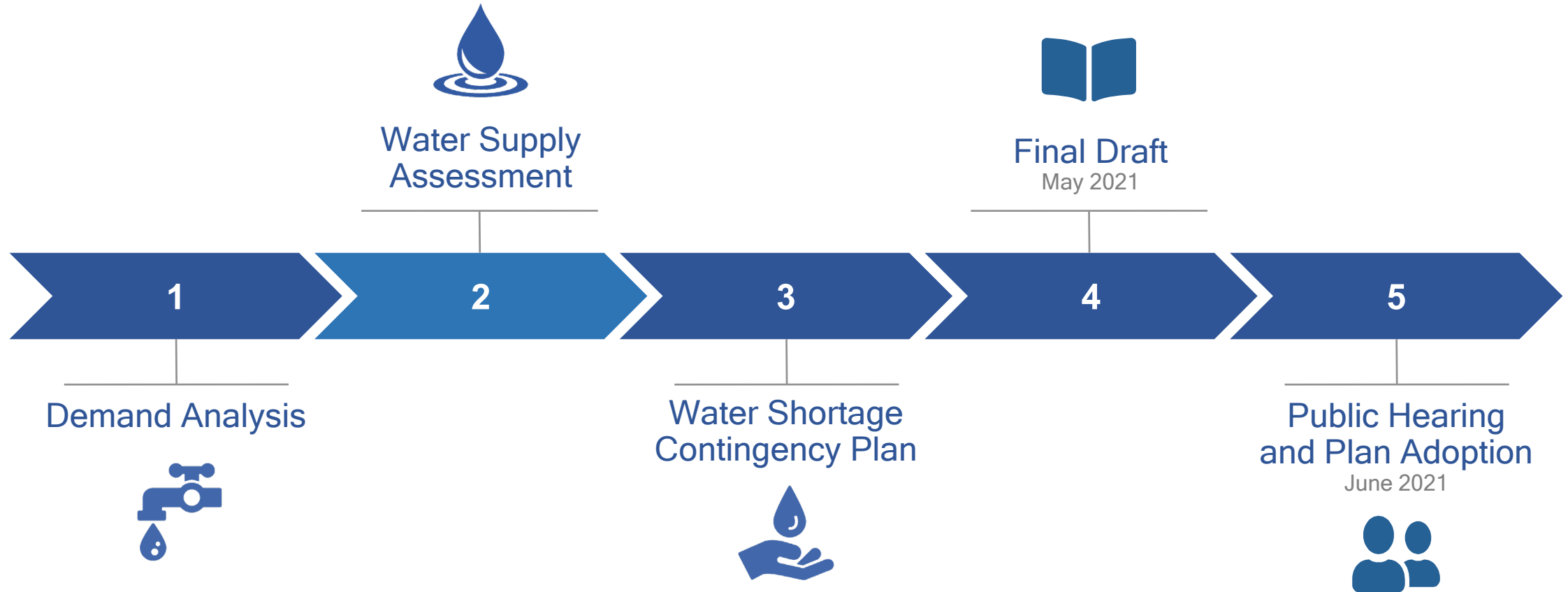


# **UWMP Water Shortage Contingency Plan**

**May 21, 2021**



# 2020 Urban Water Management Plan (UWMP) Key Milestones



# Overview of the 2020 UWMP

1. Introduction
2. Plan Preparation
3. System Description
4. Water Use Characterization (Demand Analysis)
5. Regional Alliance for 20 by 2020 Compliance (Comparison of Demands to Target)
6. Water Supply Characterization
7. Water Service Reliability and Drought Risk Assessment
- 8. *Water Shortage Contingency Plan***
9. Demand Management Measures
10. Plan Adoption and Submittal



# Water Shortage Contingency Plan - Overview

- Key Elements Required by Regulation
- Six Standard Water Shortage Stages
- Shortage Response Actions
- Compliance and Enforcement
- WSCP Updates and Revisions
- Next Steps

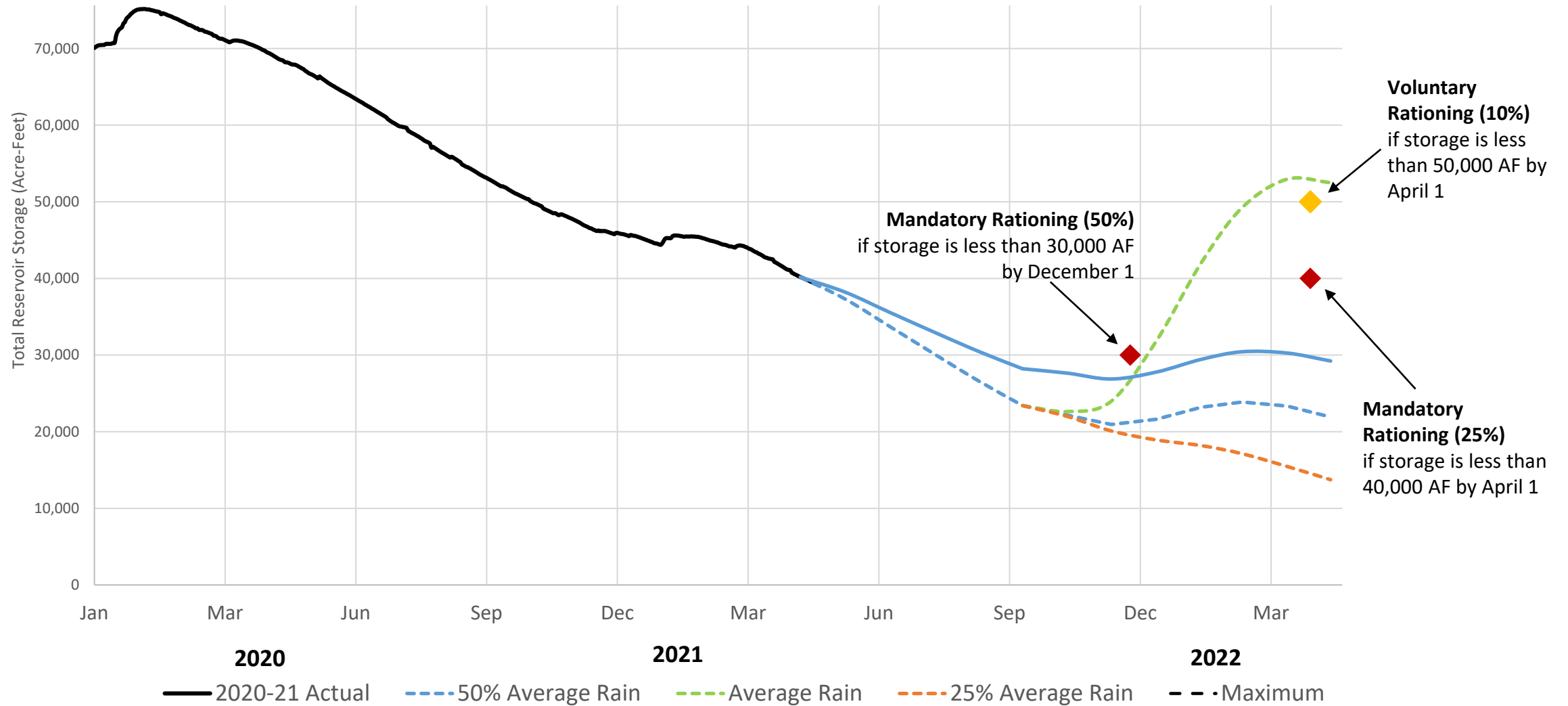
# Water Short Contingency Plan

Describes how the district intends to act in the case of any water shortage condition with pre-determined steps

- Key element of a Water Shortage Contingency Plan as required by the State Water Code:
  - Create six standard water shortage levels corresponding to:  
10-, 20-, 30-, 40-, 50- and >50-percent
  - Locally appropriate “shortage response actions” for each shortage level, with a corresponding estimate of the extent the action will address the gap between supplies and demands.
  - Suppliers are required to submit, by July 1<sup>st</sup> of each year, beginning in 2022, an annual water shortage assessment *report* to the California Department of Water Resources (DWR).



# Current Triggers and Future Water Supply Projections

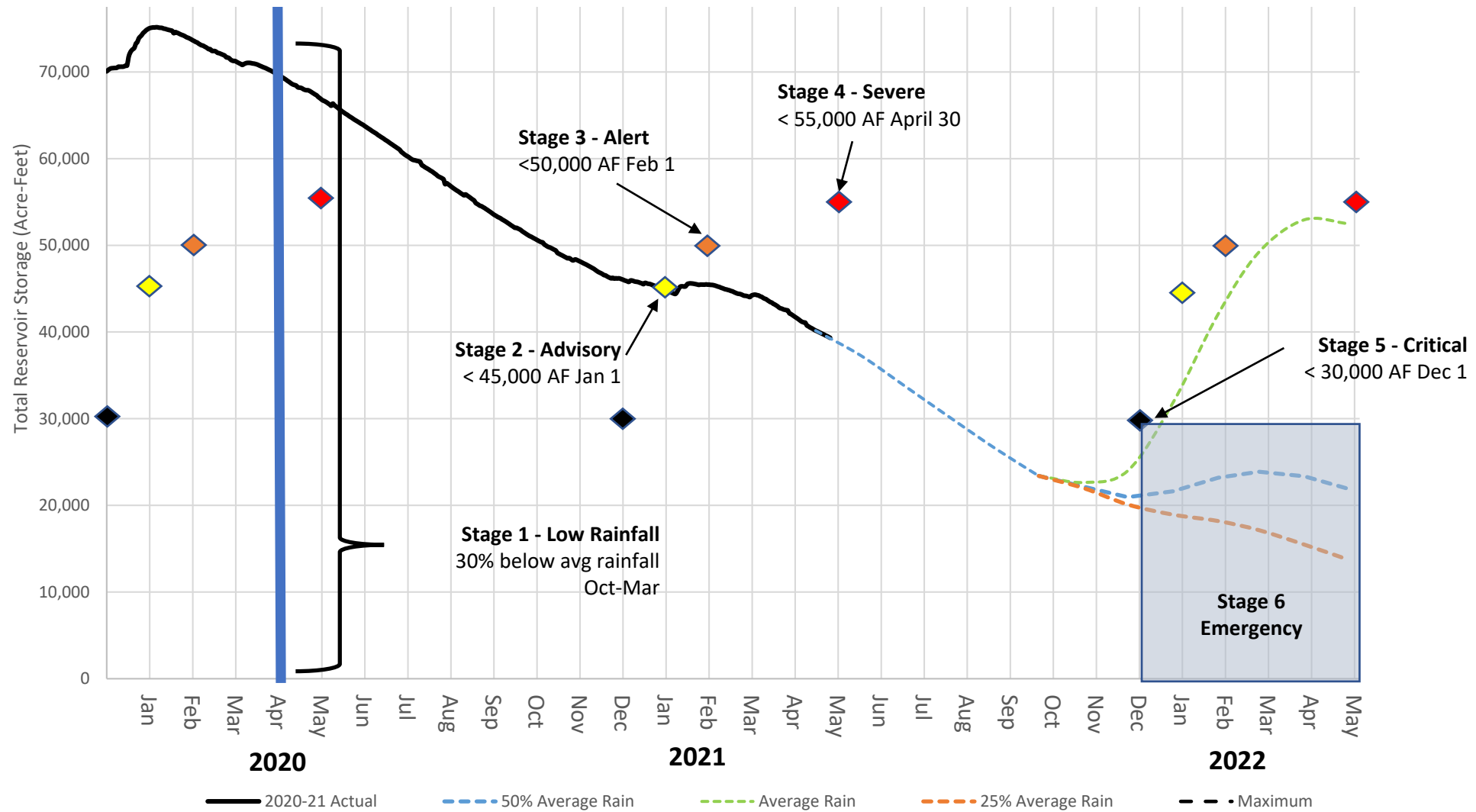


# Six Water Shortage Triggers for Action

Shortage Level	Percent Shortage Range	Water Shortage Condition
0 – Normal Conservation	0	Shortage conditions have not been met
1 – Low rainfall	Up to 10%	If rainfall is 30% below average for the water year* as of April 1 <sup>st</sup>
2 – Advisory Stage	Up to 20%	Total reservoir storage is in the vicinity of 45,000 acre-feet on January 1 <sup>st</sup> .
3 – Alert Stage	Up to 30%	Total reservoir storage is in the vicinity of 50,000 AF on February 1 <sup>st</sup>
4 – Severe Stage	Up to 40%	Total reservoir storage is in the vicinity of 55,000 AF on April 30th or storage level projections using average rainfall and unconstrained demand indicate December 1st storage in vicinity of 30,000 AF.
5 – Critical Stage	Up to 50%	Total reservoir storage on December 1 <sup>st</sup> is less than of 30,000 AF.
6 – Emergency Stage	>50%	Projection beyond Stage 5 for continued drop in storage levels or total reservoir storage is projected to be in the vicinity of 30,000 AF April 1 <sup>st</sup> .

\* Defined as less than 32 inches of rainfall at Lagunitas rainfall gauge for the time period of October 1 through March 31

# Revised Triggers and Future Water Supply Projections





# Shortage Response Actions

- Water Use Restriction
- Operational Changes and Supply Augmentation
- Financial Impacts and Actions

# Standard Water Use Restrictions (Stages 1 & 2)

## Standard Conservation/Water Use Restrictions

No irrigation 48 hours after rain

No run off or overspray of irrigation

No irrigation between 9:00am and 7:00pm

No irrigation of ornamental turf on street medians

Lodging establishments must provide option of not having towels and linen laundered daily

Using a garden hose without a shutoff nozzle is prohibited

Drinking water served at commercial establishments on request only

Washing sidewalks and hard surfaces with direct hosing is prohibited

Consumer side leaks to be repaired within 48 hours

Use of private fire line for any purpose other than fire suppression is prohibited

Irrigation restricted for ornamental and turf to three days per week

# Additional Mandatory Restrictions (Stage 3)

- Increase restrictions on irrigation (e.g. Spray irrigation limited to two days a week; drip irrigation limited to three days a week)
- Covers are required for pools and spas
- Do not wash vehicles at home, use a carwash that recycles water instead
- Do not wash driveways or sidewalks
- Gutter flooding is prohibited
- No watering grass on public medians
- No refilling or topping off decorative fountains
- Increase incentives for water conservation

It's  
drive-it-dirty  
time.

Drought is here. Save water.



# Additional Mandatory Restrictions (Stage 4)

- No power washing homes or businesses
- Golf course irrigation is restricted to greens and tees
- No using potable water for dust control, sewer flushing projects or street cleaning
- Increase restrictions on irrigation (e.g. irrigation limited to one day a week; except for minimal irrigation to maintain tree health)
- No installation of new landscapes including no expansion of existing
- Consider implementation of drought rates and water surcharges
- Begin discussion on limiting or excluding new service connections during drought

A vertical poster for Marin Water. At the top left is the Marin Water logo, which consists of a stylized mountain and water waves icon next to the text "MARIN WATER". The background of the poster is a landscape of rolling green hills and a body of water. The text "Drought is here" is written in large, white, sans-serif font. Below this, in smaller white text, is "Important information about new water restrictions and conservation". Further down, in even smaller white text, is "Para información en Español", "Info@MarinWater.org", and "415.945.1523". At the bottom, the website "MarinWater.org/Conserve" is written in blue, with the code "divcmwd-143966" in small black text below it.

MARIN WATER

## Drought is here

Important information about new water restrictions and conservation

Para información en Español  
Info@MarinWater.org  
415.945.1523

MarinWater.org/Conserve  
divcmwd-143966

# Additional Mandatory Restrictions (Critical Stage 5)

- Increase restrictions on irrigation (e.g. irrigation limited to minimal irrigation to maintain tree health)
- Additional restrictions for recreational pools
- Consider restrictions on new water service applications such that they will only be granted upon the condition that water shall be used for interior purposes only and landscaping shall be delayed until the District determines that Stage 5 rationing levels are no longer needed
- Enact Drought Rates and Water Surcharges

It's fix-it-when-you-find-it time.

Drought is here. Save water.





# Additional Mandatory Restrictions (Emergency Stage 6)

- Increase restrictions on irrigation (e.g. all landscape irrigation is prohibited)
- Impose water allotments
- The use of potable water for any purpose other than human health and safety is prohibited
- New water service applications will not be granted





# Supply Augmentation

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference (optional)
1	Increase supplemental water imports and closely monitor storage levels and weather conditions	Up to 5,000 AF	Range dependent on hydraulic capabilities
1	Enact dry year stream release flow reductions	Up to 100 AF	As defined under Water Right Order 95-17 and agreements with NMWD
4	Initiate Study/Application for Temporary Urgency Change Petition	Up to 2500 AF	Change to environmental releases – possible reduction of migration flow volumes.
5	Access Stored Emergency Supply	500 AF	Develop access to unusable water in reservoir
5	Initiate Emergency Water Supply Projects <ul style="list-style-type: none"> <li>• Water Transfers</li> <li>• Groundwater Banking</li> <li>• Desal, e.g.</li> </ul>	Unknown	Pending investigation, Long Term, Conducting Feasibility Analysis

# Operational Changes

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier	Additional Explanation or Reference (optional)
2	Minimize system flushing	Focus on water quality improvements
3	Restrict line flushing to include only regulatory compliance actions	Flush for violations of water quality regulations or required disinfection for new construction and repairs
3	Access Stored Emergency Supply	Initiate adjustments to pipe configuration to transfer water from Phoenix Lake to Bon Tempe Lake
3	Initiate water waste patrols	
3	Increase system leak repair to prioritize class 2 leaks	
4	Access Stored Emergency Supply	Rental of generator for Soulajule Reservoir to transfer water to Nicasio Reservoir
4	Increase water waste patrols	
4	Increase system leak repair to prioritize class 1-3 leaks	

# Financial Impacts

## ***Revenue Reductions and Expense Increases***

- *Reduced revenue from demand reductions*
- *Water conservation incentives*
- *Public outreach*
- *Water waste patrols*
- *Emergency water transfers*
- *Generators and fuel*

## ***Mitigation Actions to Address Revenue Reductions and Expense Increases***

- *Utilization of Reserves*
- *Temporary Drought Rates*
- *Water Use Surcharges*



# Compliance and Enforcement

# Compliance and Enforcement\*

## Monitoring and Enforcement

- Online reporting of water waste at: [MarinWater.org/Forms/Water-Waste-Report](http://MarinWater.org/Forms/Water-Waste-Report)
- Water Waste Patrols
- Hydrant Meters for Recycled Water Only
- Water Billing Use Analysis and Customer Notices
- Real Time Flow Meter Monitoring

\* Variance and exemptions process available for financial hardship, for health and safety reasons, or for alternative means of compliance

## Penalties and Enforcement Procedures:

- First Notice - Warning Letter: Any customer violating the regulations and restrictions on water use shall receive a written warning informing them of the violation for the first such violation and warning that a second such violation will result in a penalty.
- Notice of Violation: If, after receiving a written warning of violation for the same category of violation within a two-week period, the District shall issue a Notice of Violation imposing a \$25 fine on the customer's next water bill.
- Repeat Violations: For customers found by the District to incur a further violation within the same category for which customer has already received a Notice of Violation within the past sixty (60) calendar days, customer shall be charged a fine of \$250 for each successive violation noticed by the District.

# WSCP Updates & Revisions

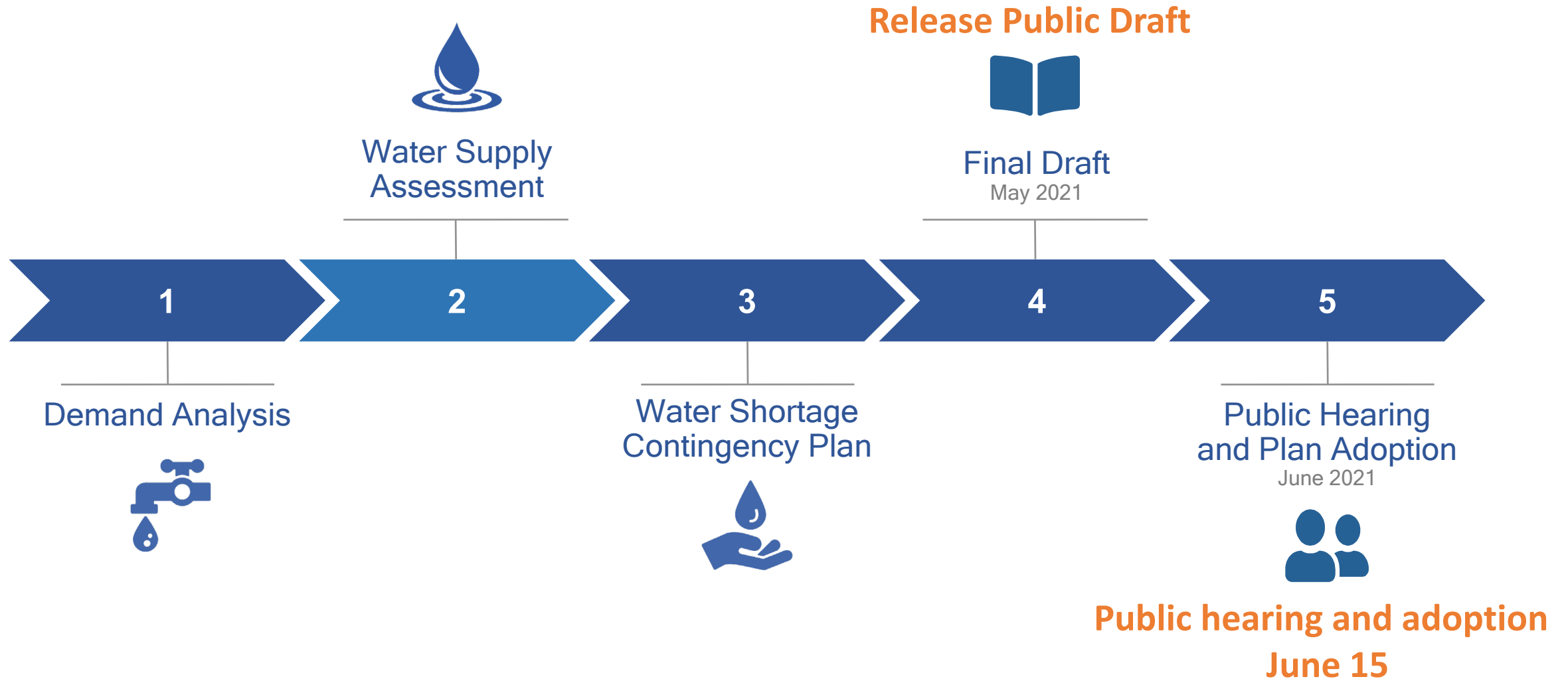


# WSCP Updates and Revisions

- Rather than every five years, as required for UWMP, the WSCP can be amended and resubmitted to DWR at any time
- The WSCP describes the district's reevaluation and improvement process to assess the functionality of the district's WSCP and to make appropriate adjustments as may be warranted
- Our intent is to relook at the WSCP following the current drought

# Next Steps

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MARIN  
WATER

# SAVE WATER

