

# ***Drought Task Force Workshop No. 1: Kick Off and Drought Goals***

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Western Municipal Water District  
*January 22, 2021 • 10 to 11:30 a.m.*



*Welcome!*



# Quick Zoom orientation

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# *Workshop goals*

- Introduce members and begin to build trust/connection among members

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- Build shared clarity on project, task force's role, commitment, and engagement activities

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- Introduce the components of a Drought Contingency Plan

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- Gather input to refine the “drought goals” or guiding principles for the DCP



# Workshop agenda

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|        |   |
|--------|---|
| 20 min | Introductions   |
| 10 min | Project and Task Force Overview with <b>INTERACTION</b> |
| 10 min | Drought Planning Overview                               |
| 30 min | <b>GROUP EXERCISE:</b> Drought Goals                    |
| 5 min  | What's Next and Audience Q&A                            |



# Presenters

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**Tiffany Meyer**  
Stakeholder  
Engagement Lead,  
WSC



**Laine Carlson**  
UWMP Lead,  
WSC



**Melissa Matlock**  
Water Resources  
Specialist II, Western  
Municipal Water  
District



**Michelle Ricker**  
DCP Lead, GEI



**Kwabena Asante,  
Ph.D., P.E.**  
Senior Hydrologist,  
Climate Science  
Lead, GEI



# ***Task Force Introductions***

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*Return to main room at 10:15am-10:18am*

10:30am-10:40am

# ***Project and Task Force overview***

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Melissa Matlock

*Water Resources Specialist II, Western Municipal Water District*

# The role of US Bureau of Reclamation

Leslie Cleveland, USBR



# 5 Steps to the Drought Contingency Plan

## Step 1. Determine Future Demands



DCP uses UWMP demand projections.

## Step 2. Evaluate Existing Supply Reliability



DCP develops robust Climate Change Vulnerability Assessment and informs UWMP Drought Risk Assessment and Supply Reliability Analysis.

## Step 3. Develop Future Supply & Response / Mitigation Options



DCP builds on drought response actions from UWMPs and WSCP; develops a drought monitoring framework, defines mitigation activities and projects to build drought resilience.

## Step 4. Develop Implementation Plan



DCP identifies process for implementing drought monitoring, initiating actions during drought conditions and communicating with the public.

## Step 5. Document the Plan



DCP will establish a process for future updates to keep the plan dynamic and undergo public review and adoption process.

Plan due to USBR  
end of 2022

  
WE ARE HERE

# Task Force Overview



## Drought Task Force

Represent and share regional stakeholder interests, needs in plan development.



## General Public

Public comment periods



## EOWR Committee

Advises Board of Directors on water policy decisions.



## Western Board of Directors

Adopts the plan.

Share Perceptions / Opinions

Recommend

Decide

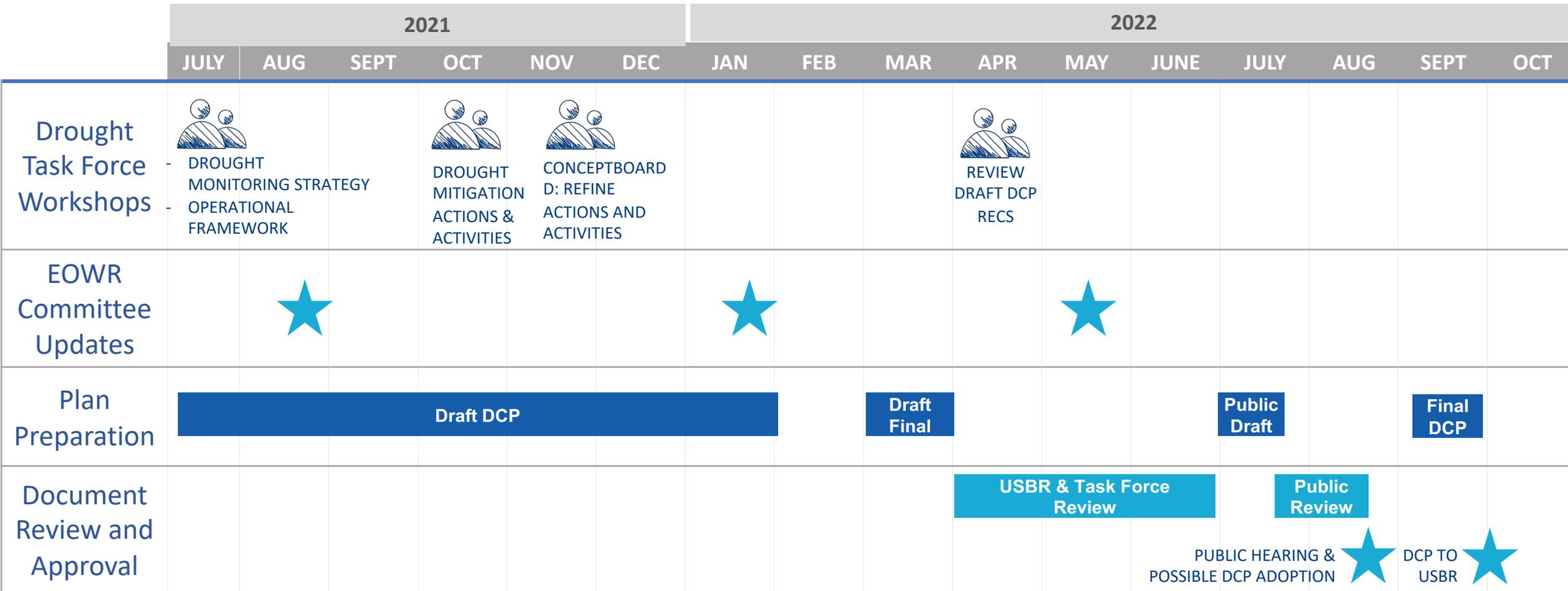


# Engagement Timeline — UWMP

|                              | 2020                            | 2021  |   |     |  |     |            |                   |
|------------------------------|---------------------------------|---|---|-----|--|-----|------------|-------------------|
|                              | DEC                             | JAN   | FEB   | MAR | APR  | MAY | JUNE       | JULY              |
| Drought Task Force Workshops |                                 |  <ul style="list-style-type: none"> <li>•KICKOFF</li> <li>•OVERVIEW</li> <li>•GOALS</li> </ul> |  <ul style="list-style-type: none"> <li>•DEMANDS</li> <li>•CLIMATE CHANGE VULNERABILITY</li> <li>•DOUGHT RESPONSE ACTIONS</li> </ul> |     |  <ul style="list-style-type: none"> <li>REVIEW DRAFT UWMP RECS</li> </ul> |     |            |                   |
| EOWR Committee Updates       |                                 |   | ★   | ★   |  | ★   |            |                   |
| Plan Preparation             | Water Shortage Contingency Plan |   |   |     | Draft Final  |     | Final WSCP |                   |
|                              | Draft UWMP                      |   |   |     | Draft Final  |     | Final UWMP |                   |
| Document Review and Approval |                                 |   |   |     | Public Review  |     |            |                   |
|                              |                                 |   |   |     | PUBLIC HEARING & POSSIBLE UWMP & WSCP ADOPTION   |     | ★          | UWMP DUE TO DWR ★ |



# Engagement Timeline — DCP



10:40am-10:45am

**GROUP PROMPT:**

**What would you like to get  
from your participation  
on this Task Force?**

Tiffany Meyer, WSC



10:45am-10:50am

# *Drought planning overview*

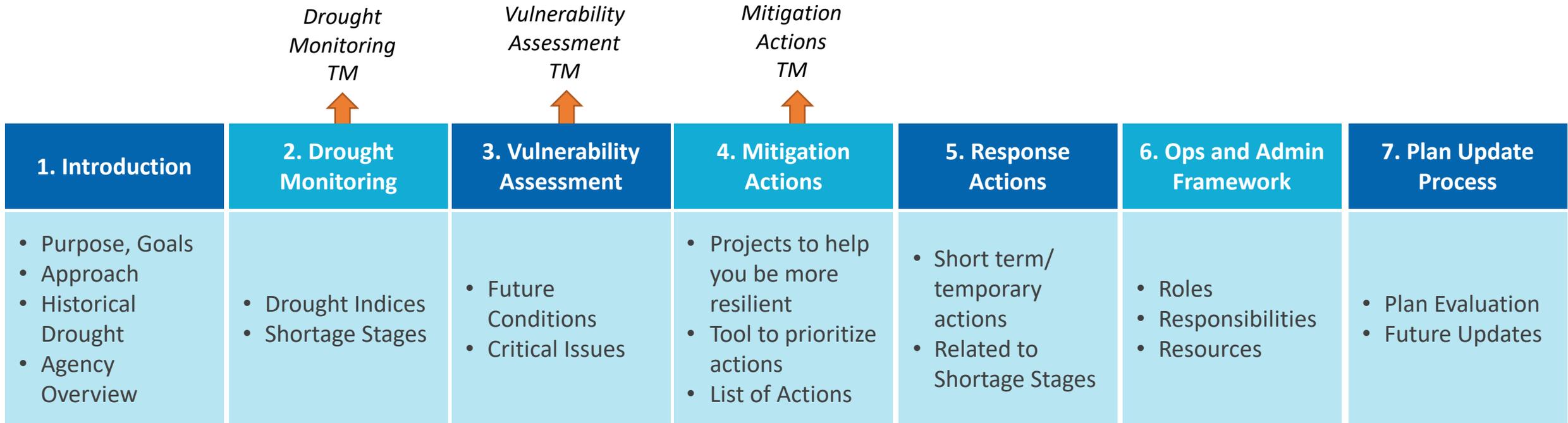
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Michelle Ricker, GEI

Kwabena Asante, Ph.D., P.E., GEI



# Drought Contingency Plan Components



*Drought Monitoring*  
TM

*Vulnerability Assessment*  
TM

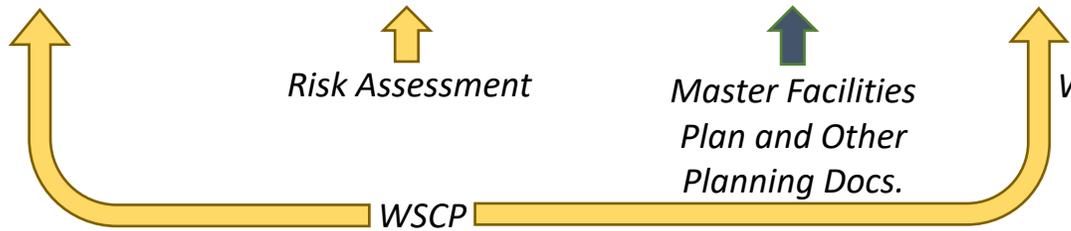
*Mitigation Actions*  
TM

↑  
*Historical Supply and Demand*

↑  
*Risk Assessment*

↑  
*Master Facilities Plan and Other Planning Docs.*

↑  
*Water Use Efficiency Master Plan*



- ↑ *Interim Deliverables*
- ↑ *UWMP Connections*
- ↑ *Existing Resources*

# Key components of a Drought Contingency Plan

| 1. Introduction   | 2. Drought Monitoring  | 3. Vulnerability Assessment  | 4. Mitigation Actions   | 5. Response Actions  | 6. Ops and Admin Framework   | 7. Plan Update Process  |
|---|--|--|---|--|--|---|
| <ul style="list-style-type: none"> <li>• Purpose, Goals</li> <li>• Approach</li> <li>• Historical Drought</li> <li>• Agency Overview</li> </ul> | <ul style="list-style-type: none"> <li>• Drought Indices</li> <li>• Shortage Stages</li> </ul> | <ul style="list-style-type: none"> <li>• Future Conditions</li> <li>• Critical Issues</li> </ul> | <ul style="list-style-type: none"> <li>• Projects to help you be more resilient</li> <li>• Tool to prioritize actions</li> <li>• List of Actions</li> </ul> | <ul style="list-style-type: none"> <li>• Short term/temporary actions</li> <li>• Related to Shortage Stages</li> </ul> | <ul style="list-style-type: none"> <li>• Roles</li> <li>• Responsibilities</li> <li>• Resources</li> </ul> | <ul style="list-style-type: none"> <li>• Plan Evaluation</li> <li>• Future Updates</li> </ul> |

## Requirements of the USBR WaterSMART Grant



# Key components of a Drought Contingency Plan

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# *Key drought related challenges in the region*

## Significant reliance on imported and purchased water

- Availability of supplies may not reflect local conditions

## Increasing weather extremes and temperatures

- Climate variability
- More severe droughts
- Storage challenges



A hand holding a pen, positioned over a board covered with colorful sticky notes. The scene is overlaid with a blue gradient. The word "Questions?" is written in a bold, yellow font across the center of the image.

**Questions?**



10:50am-10:55am

# *Climate Change Vulnerability Assessment Overview*

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**Kwabena Asante, Ph.D., P.E., GEI**

# *Climate Change Vulnerability Assessment (CCVA): Purpose*

## RESOURCES

- Imported Water
- Groundwater
- Surface Water
- Critical Infrastructure<sup>s</sup>

## RISK FACTORS

- Drought
- Climate Variability
- Population Growth
- Other





# *CCVA Key Outcomes*

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## **Meet UWMP Water Code requirements**

- Year Types: normal water year, single dry year, five-year drought
- Water Supply and Demand projections in 5-year increments for 25 years

## **Climate factors applied to water sources for water supply assessment**

- Imports from Metropolitan, Santa Ana & Santa Margarita, Local

## **Climate factors applied to water uses for water demand assessment**

- Water use for M&I and Agriculture



# Value of CCVA to Task Force Members

| Year           | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
|----------------|------|------|------|------|------|------|
| Normal         |      |      |      |      |      |      |
| Dry            |      |      |      |      |      |      |
| 5-year Drought |      |      |      |      |      |      |

Results coming at Workshop #2,  
February 10

## KEY QUESTION:

“What information will this provide as input to my drought risk assessment?”



A hand holding a pen, positioned over a board covered with colorful sticky notes. The scene is overlaid with a blue gradient. The word "Questions?" is written in a bold, yellow font across the center of the image.

**Questions?**



# ***Drought Goals Group Activity***

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Tiffany Meyer

*Water Systems Consulting*

- INTRODUCTION / DEMONSTRATION
- GROUP WORK
- SYNTHESIS AND NEXT STEPS

# Activity: Building Regional Drought Goals

**1**

Ensure equity.

**2**

Define regional shortage conditions.

**3**

Build resiliency.

**4**

Facilitate consistent communication.

**5**

Support sustainability and environmental stewardship.

**6**

Achieve planning consistency.



# GROUP #1

Idea

Idea

Idea

Idea

## 1 Ensure equity.

How do we ensure inclusivity and regional collaboration in the process of determining drought triggers—so actions don't put an unfair burden on some stakeholders? And how do we achieve broad, diverse benefits?

Idea

Idea

Idea

Idea

## 2 Define regional shortage conditions.

How do we define "drought" (e.g. based on precipitation, surface/groundwater levels, available supply, etc)

# Regional Drought Goals

## 3 Build resiliency.

How do we work with local supply sources so we can effectively weather drought conditions as they arise? (This will inform mitigation actions)

Idea

Idea

Idea

Idea

## 4 Facilitate consistent communication.

How do we facilitate consistent and effective communication among stakeholders in the plan development, plan implementation, and periodic plan updates?

Idea

Idea

Idea

Idea

## 5 Sustainability and environmental stewardship.

What outcomes should be prioritized? If we achieved this goal, how does it look to regional ecosystems and communities as well as climate impacts?

Idea

Idea

Idea

Idea

## 6 Planning consistency.

What other plans within the region do we need to align with? How do we achieve that alignment?

Idea

Idea

Idea

Idea

Idea

11:25am-11:30am

# *What's next?*

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Tiffany Meyer, WSC

# PREWORK

- **REVIEW:** Drought Guiding Principles by — **Due Feb. 1**

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- **WATCH: Demand and Supply Analysis overview** — **(coming Feb. 3), complete before Feb. 10 workshop**

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- **REVIEW:** Preliminary list of Drought Response Actions and Demand Management Measures **(coming Feb. 3), complete before Feb. 10 workshop**

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- **PREPARE:** Feedback/comments on draft actions and measures for group discussion **(coming Feb. 3), complete before Feb. 10 workshop**



## *Attend Workshop No. 2*

# Climate Change Vulnerability Assessment and Drought Response Actions

**February 10, 2021 • 2 to 5 p.m.**

**ALL TASK FORCE MEMBERS ARE REGISTERED**

Watch for Zoom details by email from WSC



A hand holding a blue pen is positioned over a blue translucent rectangular box. The box contains the text 'Project Website' and a URL. The background is a blurred office setting with a person's hand and various papers and sticky notes.

## *Project Website*

[www.WMWD.com/UWMP](http://www.WMWD.com/UWMP)

