



...A United Voice for the Santa Ana River Watershed

## OWOW Steering Committee Members

**Bruce Whitaker**, Convener | SAWPA Commissioner  
**Brenda Dennstedt**, SAWPA Commissioner  
**Katrina Foley**, Orange County Supervisor  
**Karen Spiegel**, Riverside County Supervisor  
**Curt Hagman**, San Bernardino County Supervisor  
**James Hessler**, Altman Plants

**Garry W. Brown**, Orange County Coastkeeper  
**Joe Kerr**, Regional Water Quality Control Board  
**Deborah Robertson**, Mayor, City of Rialto  
**Ted Hoffman**, Councilmember, City of Norco  
**Nicholas Dunlap**, Mayor Pro Tem, City of Fullerton

**PURSUANT TO THE PROVISIONS OF AB 361, THIS MEETING WILL BE CONDUCTED VIRTUALLY WITH THE OPPORTUNITY FOR PUBLIC COMMENT. ALL VOTES TAKEN WILL BE CONDUCTED BY ORAL ROLL CALL.**

This meeting will be accessible as follows:

Meeting Access Via Computer (Zoom)*:	Meeting Access Via Telephone*:
<ul style="list-style-type: none"> <li>• <a href="https://sawpa.zoom.us/j/84694745367">https://sawpa.zoom.us/j/84694745367</a></li> </ul>	<ul style="list-style-type: none"> <li>• 1 (669) 900-6833</li> </ul>
<ul style="list-style-type: none"> <li>• Meeting ID: 846 9474 5367</li> </ul>	<ul style="list-style-type: none"> <li>• Meeting ID: 846 9474 5367</li> </ul>
<p>* Participation in the meeting via the Zoom app (a free download) is strongly encouraged; there is no way to protect your privacy if you elect to call in by phone to the meeting.</p>	

**REGULAR MEETING OF THE  
OWOW STEERING COMMITTEE  
THURSDAY, NOVEMBER 17, 2022 – 11:00 a.m.**

### AGENDA

1. **CALL TO ORDER | PLEDGE OF ALLEGIANCE (Bruce Whitaker, Convener)**
2. **PUBLIC COMMENTS**  
Members of the public may address the Committee on items within the jurisdiction of the Committee; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).
3. **APPROVAL OF MEETING MINUTES: SEPTEMBER 22, 2022..... 5**



...A United Voice for the Santa Ana River Watershed

**4. BUSINESS ITEMS**

- A. **SOLVE THE WATER CRISIS PRESENTATION BY WESTERN MUNICIPAL WATER DISTRICT (SC#2022.8)** .....9  
**Presenter:** Ian Achimore and Craig Miller  
**Recommendation:** Receive and file.
- B. **PROPOSITION 1 ROUND 2 INTEGRATED REGIONAL WATER MANAGEMENT RESOLUTION AND PROJECT UPDATES (SC#2022.9)** .....27  
**Presenter:** Ian Achimore  
**Recommendation:** Recommend that the SAWPA Commission adopt SAWPA Resolution 2022.17 in order to submit the final grant application to the Department of Water Resources.
- C. **SANTA ANA RIVER WATERSHED WEATHER MODIFICATION PILOT PROGRAM STATUS REPORT (SC#2022.10)** .....47  
**Presenter:** Mark Norton  
**Recommendation:** Receive and file.

**5. COMMITTEE MEMBERS' COMMENTS**

**6. REQUEST FOR FUTURE AGENDA ITEMS**

**7. ADJOURNMENT**

**PLEASE NOTE:**

Americans with Disabilities Act: Meeting rooms are wheelchair accessible. If you require any special disability related accommodations to participate in this meeting, please contact (951) 354-4220 or svilla@sawpa.org. Notification at least 48 hours prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

Materials related to an item on this agenda submitted to the Committee after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at [www.sawpa.org](http://www.sawpa.org), subject to staff's ability to post documents prior to the meeting.

**Declaration of Posting**

I, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on November 10, 2022, a copy of this agenda has been uploaded to the SAWPA website at [www.sawpa.org](http://www.sawpa.org) and posted at the SAWPA office, 11615 Sterling Avenue, Riverside, California.

**2022 OWOW Steering Committee Regular Meetings**

Fourth Thursday of Every Other Month (January, March, May, July, September, November)  
 (Note: All meetings begin at 11:00 a.m., unless otherwise noticed, and are held at SAWPA.)

<b>January</b> 1/27/22 Regular Committee Meeting	<b>March</b> 3/24/22 <del>Regular Committee Meeting</del> [cancelled]
<b>May</b> 5/26/22 <del>Regular Committee Meeting</del> [cancelled]	<b>July</b> 7/28/22 Regular Committee Meeting
<b>September</b> 9/22/22 Regular Committee Meeting	<b>November</b> 11/17/22* Regular Committee Meeting*

\* Meeting date adjusted due to conflicting holiday.



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\* Meeting date adjusted due to conflicting holiday.

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...A United Voice for the Santa Ana River Watershed

**OWOW STEERING COMMITTEE**  
**REGULAR MEETING MINUTES**  
**September 22, 2022**

<b>Committee Members</b>	
<b><u>Santa Ana Watershed Project Authority Representatives</u></b>	
Bruce Whitaker, Convener, Orange County Water District	Present
Brenda Dennstedt, Western Municipal Water District	Present
<b><u>County Supervisor Representatives</u></b>	
Katrina Foley, Orange County Board of Supervisors	Present (11:09 a.m.)
Karen Spiegel, Riverside County Board of Supervisors	Present
Curt Hagman, San Bernardino County Board of Supervisors	Present
<b><u>County Municipal Representatives</u></b>	
Deborah Robertson, Mayor, City of Rialto	Present (11:15 a.m.)
Ted Hoffman, Councilmember, City of Norco	Present
Nicholas Dunlap, Mayor Pro Tem, City of Fullerton	Absent
<b><u>Business Community Representative</u></b>	
James Hessler, Director of West Coast Operations, Altman Plants	Present
<b><u>Environmental Community Representative</u></b>	
Garry W. Brown, President, Orange County Coastkeeper	Absent
<b><u>Regional Water Quality Control Board Representative</u></b>	
Joseph Kerr, Regional Water Quality Control Board	Absent
<b>Others Present</b>	
<b><u>SAWPA COMMISSIONERS:</u></b>	T. Milford Harrison, Kelly Rowe
<b><u>SAWPA STAFF:</u></b>	Jeff Mosher, Mark Norton, Ian Achimore, Rick Whetsel, Edina Goode, Pete Vitt, Sara Villa, Zyanya Ramirez
<b><u>OTHERS PRESENT:</u></b>	Andrew D. Turner, Lagerlof LLP

The OWOW Steering Committee meeting was called to order at 11:00 a.m. by Bruce Whitaker, Convener, at the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, CA 92503. The record will reflect this meeting was conducted virtually.



1. **CALL TO ORDER | PLEDGE OF ALLEGIANCE**

Pursuant to the provisions of AB 361, this meeting was conducted virtually.

2. **PUBLIC COMMENTS**

There were no public comments; there were no public comments received via email.

3. **APPROVAL OF MEETING MINUTES – JANUARY 27, 2022 | JULY 28, 2022**

**MOVED**, approve the January 27, 2022 and July 28, 2022 meeting minutes.

Result:	<b>Adopted by Roll Call Vote</b>
Motion/Second:	Dennstedt/Hessler
Ayes:	Dennstedt, Foley, Hagman, Hessler, Hoffman, Spiegel, Whitaker
Nays:	None
Abstentions:	None
Absent:	Brown, Dunlap, Kerr, Robertson

4. **BUSINESS ITEMS**

A. **PROPOSITION 1 ROUND 2 INTEGRATED REGIONAL WATER MANAGEMENT PROJECT APPROVALS (SC#2022.6)**

Ian Achimore provided a presentation on the Proposition 1 Round 2 Integrated Regional Water Management (IRWM) Project Approvals, contained in the agenda packet on pages 19-83. The OWOW Call for Projects was open from January 11, 2022 to June 1, 2022. SAWPA received 24 applications requesting Proposition 1 Round 2 IRWM grant funding. Mr. Achimore provided an overview of each project.

Per the 2019, Cooperative Agreement with the North County IRWM group, the recommendation to the OWOW Steering Committee also includes confirmation that the highest ranked North Orange County IRWM projects meet State requirements and thus be included in the DWR application to receive grant funding. Orange County Public Works is the administrator of that process, and SAWPA staff has coordinated closely with their staff to ensure the three projects meet eligibility requirements. If there are no high ranked projects in the watershed-wide category, or if the high ranked watershed-wide projects don't use the full allotment, then the unused funding is distributed between the OWOW and North OC IRWM process using the 66% and 34% ratio. Christy Suppes of Orange County provided a presentation of the three projects that were selected through their process.

Due to DWR's grant application requirements, SAWPA is required to provide "back up" projects that are ranked just below the top projects. "Back up" projects are needed in case a selected project cannot proceed during the implementation phase from Summer 2023 to December 2027. Those two "back up" projects are:

- DAC: Shamrock and Meridian Septic to Sewer Conversion
- OWOW General: City of Rialto Recycled Intertie

Committee Member Dennstedt stated that the goal of this process is to reduce our dependency of state water and rely more on groundwater. She asked staff to provide a summary of anticipated new water and revised water produced by the projects.



**MOVED**, (1) Recommend the OWOW portfolio of ten projects to the SAWPA Commission in order to receive Proposition 1 IRWM Round 2 grant funding, and (2) Confirm that the three North Orange County IRWM projects meet State requirements and thus be included in the Round 2 list of projects to receive grant funding.

Result: **Adopted by Roll Call Vote**  
Motion/Second: Dennstedt/Robertson  
Ayes: Dennstedt, Foley, Hagman, Hessler, Hoffman, Robertson, Spiegel, Whitaker  
Nays: None  
Abstentions: None  
Absent: Brown, Dunlap, Kerr

**B. OWOW PLAN UPDATE 2018 PLAN AMENDMENT WITH ADDITIONAL PROJECT LIST (SC#2022.7)**

Ian Achimore provided a presentation titled OWOW Plan Update 2018 Plan Amendment with Additional Project List, contained in the agenda packet on pages 99-108.

Through the OWOW Call for Projects, 24 projects were submitted to SAWPA for funding, and 26 were submitted to just be incorporated into the Plan (i.e. “plan only” projects). Through the North Orange County IRWM process described in the previous memorandum, three projects were submitted for funding, and one was submitted to be included in the IRWM Plan from Orange County Public Works.

SAWPA staff recommends including the “plan only” projects and the four North Orange County IRWM projects into the plan. Entities often choose the “plan only” option to be eligible for other State grant opportunities. The OWOW Plan Update 2018, includes a list of projects from Proposition 1 Round 1 per the Steering Committee’s adoption of the Plan in 2019. That list is shown in Appendix B of the Plan and reflects projects submitted to SAWPA by January 24, 2019.

**MOVED**, to recommend to the SAWPA Commission that it amend the OWOW Plan Update 2018 to add an appendix that includes: (1) 27 “plan only” projects submitted via the 2022 Call for Projects, and (2) 24 projects that requested Proposition 1 Round 2 funding via the 2022 Call for Projects, and (3) Three projects from the 2022 North Orange County IRWM Call for Projects.

Result: **Adopted by Roll Call Vote**  
Motion/Second: Dennstedt/Robertson  
Ayes: Dennstedt, Foley, Hagman, Hessler, Hoffman, Robertson, Spiegel, Whitaker  
Nays: None  
Abstentions: None  
Absent: Brown, Dunlap, Kerr,

**5. COMMITTEE MEMBERS’ COMMENTS**

There were no comments.

**6. REQUEST FOR FUTURE AGENDA ITEMS**

Committee member Dennstedt requested to have Craig Miller speak on the Solve the Water Crisis initiative. This is an educational effort that brings into focus the ongoing water supply crisis to California policymakers.



7. **ADJOURNMENT**

The meeting ended at 12:31 p.m.

**APPROVED:** November 17, 2022

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Bruce Whitaker, Convener

Attest:

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Sara Villa, Clerk of the Board



## **OWOW STEERING COMMITTEE MEMORANDUM NO. 2022.8**

**DATE:** November 17, 2022

**TO:** OWOW Steering Committee

**SUBJECT:** Solve the Water Crisis Presentation by Western Municipal Water District

**PREPARED BY:** Ian Achimore, Senior Watershed Manager

### **RECOMMENDATION**

Receive and file.

### **DISCUSSION**

Per the request at the September 22, 2022 OWOW Steering Committee meeting by committee member Brenda Dennstedt, SAWPA staff has coordinated with Western Municipal Water District (WMWD) staff to provide an overview of the Solve the Water Crisis public awareness campaign. The campaign is being led by a coalition of more than 26 engaged water agencies representing both urban and rural areas, as well as Northern and Southern California. The goal of the coalition is to raise awareness among California policymakers regarding the urgency and bold actions needed to secure California's water future. Action is needed to respond to the ongoing water supply crisis, which is already impacting residents' quality of life, economic growth, community health, and the environment, as well as risking California's future.

The campaign, which began in May 2022, has a newsletter, a website at [www.solvethewatercrisis.com](http://www.solvethewatercrisis.com), ongoing traditional media engagement, ongoing social media engagement, a coordinating committee amongst the engaged water agencies, and a consultant to assist in implementation – KP Public Affairs.

WMWD's General Manager, Craig Miller will be making the presentation to the OWOW Steering Committee for this agenda item.

### **CRITICAL SUCCESS FACTORS**

- Active participation of a diverse group of stakeholders representing counties, cities, and water districts, as well as the private sector and the regulatory, environmental, and environmental justice communities who integrate the different interests in the watershed beyond political boundaries. Ensuring all perspectives are heard and valued.

### **RESOURCE IMPACTS**

None

Attachments:

1. PowerPoint Presentation

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# Solve the Water Crisis

## Presentation by Western Municipal Water District

Craig Miller, General Manager

Western Municipal Water District

OWOW Steering Committee | November 17, 2022

Agenda Item 4.A.



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.



# SOLVE THE WATER CRISIS

## MISSION

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Solve the Water Crisis, through a critically needed statewide education effort, brings into sharp focus the ongoing water supply crisis that is already impacting residents' quality of life, economic growth, community health, and the environment, as well as risking California's future.

By raising awareness among California policymakers and thought leaders, Solve the Water Crisis will inform policymakers of the enormous water supply crisis and the urgency that requires bold and immediate State action to secure California's future.



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

# SOLVE THE WATER CRISIS

## Growing Participation



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

### 80+ INTERESTED AGENCIES

#### COLLABORATORS

- California Business Roundtable
- Western Growers
- California Building Industry Association
- Association of California Water Agencies
- California Municipal Utilities Association
- Southern California Water Coalition

#### TARGET PARTNER LIST

- Business Chambers
- Cities and Counties
- Civic Agencies
- Environmental
- Labor
- Recreation
- Social Justice
- Tourism

### 26 MEMBERS

- Camrosa Water District
- City of Corona
- Coachella Valley Water District
- East Valley Water District
- El Dorado County Water Agency
- Eastern Municipal Water District
- Elsinore Valley Water District
- Inland Empire Utilities Agency
- Irvine Ranch Water District
- Jurupa Community Services District
- Las Virgenes Municipal Water District
- Mesa Water District
- Municipal Water District of Orange County
- Olivenhain Water District
- Puente Basin Water District
- Rancho California Water District
- Riverside Public Utilities
- Rubidoux Community Service District
- San Bernardino Municipal Water District
- San Bernardino Valley Municipal Water District
- San Juan Water District
- Temescal Valley Water District
- Three Valleys Municipal Water District
- Turlock Irrigation District
- Valley Center Municipal Water District
- Western Municipal Water District

# OUR WATER FUTURE DOES NOT LOOK GOOD



Residents, businesses, and policymakers do not understand the severity of California's ongoing and systemic water supply crisis.



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

# CURRENT STATE PRIORITIES



Urban conservation

Intensify environmental and regulatory mandates

Shift water supply burdens to local agencies

Demand affordability despite increasing costs

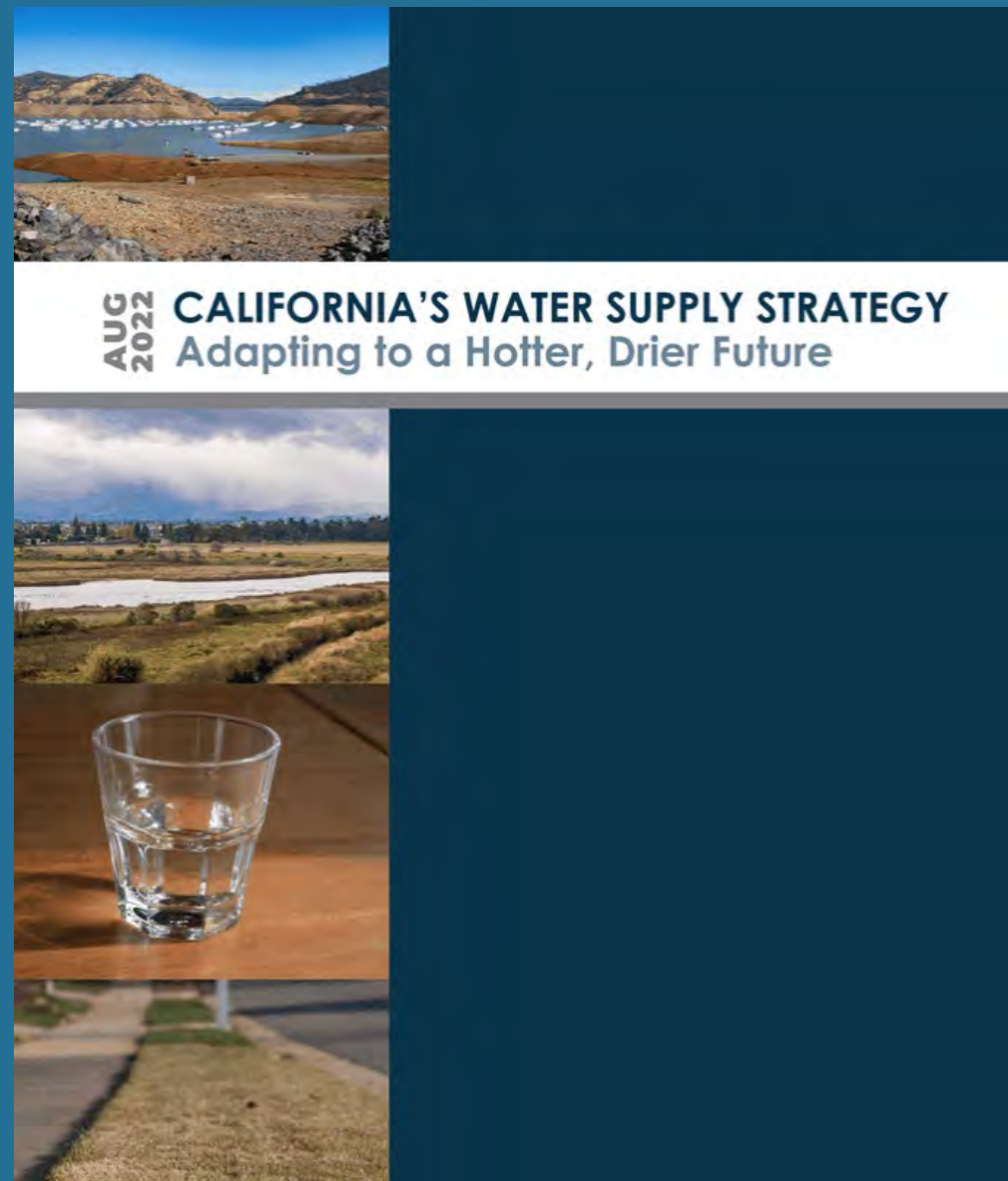
*According to a recent PPIC poll, “drought remains the dominant environmental issue for Californians.” Just as important, a majority of Californians, nearly 70 percent “don’t feel that government is doing enough to combat the drought.”*



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

# Governor Newsom's New Water Supply Plan

Water Agencies Applaud Governor Newsom's  
New Water Supply Strategy



- Supportive sentiment
- Great step forward
- Applaud leadership, recognition of urgency and need
- Need for continued work and follow through



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.



# OBJECTIVES

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**MAKE POLICYMAKERS  
AWARE OF THE CRISIS.**

**ENCOURAGE A DISCUSSION  
AROUND SOLUTIONS.**

**CREATE THE ENVIRONMENT  
FOR SUCCESS.**



**SOLVE THE WATER CRISIS**  
*ACT NOW TO SECURE CALIFORNIA'S FUTURE.*

# AGRICULTURE HIT HARD

- ① 0% allocation on CVP and 5% allocation on SWP (2022)
- ② \$1.7 billion revenue loss
- ③ 14,600 jobs lost
- ④ 395,000 acres left dry and unplanted
- ⑤ Food security



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

# URBAN LOSSES

- ① SWP cutback from 5M AF to 250,000 AF
- ② Southern CA loss of 1.9M AF from SWP
- ③ Colorado River cuts coming – so it can't make up the difference
- ④ Coastal Commission denied HB desal permit
- ⑤ Recycled water effectively committed
- ⑥ State needs roughly 20M AF of new supply – where do we go for this water?



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

# SOLUTIONS

Educate key audiences on solutions to address the state's water supply and reliability issues, including statewide and long -term benefits of solutions.

1

More surface and groundwater storage

2

Improved inter-regional and local conveyance

3

Creative regulatory solutions such as the voluntary agreements

4

New supply including investments in local water infrastructure, such as groundwater recharge, desalination, and recycling



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# TARGET AUDIENCE

## Legislators

- Water Champions
- Legislative Leadership
- Water and Budget Committees

## Newsom Administration

- Policy
- Finance
- Communications
- GoBiz

## Regulators

- Resources Agency
- Department of Fish and Wildlife
- Department of Water Resources
- State Water Resources Control Board



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

# ACTIVITIES

Media Engagement  
Stakeholder Education  
Digital Ad Campaign  
Sacramento Engagement

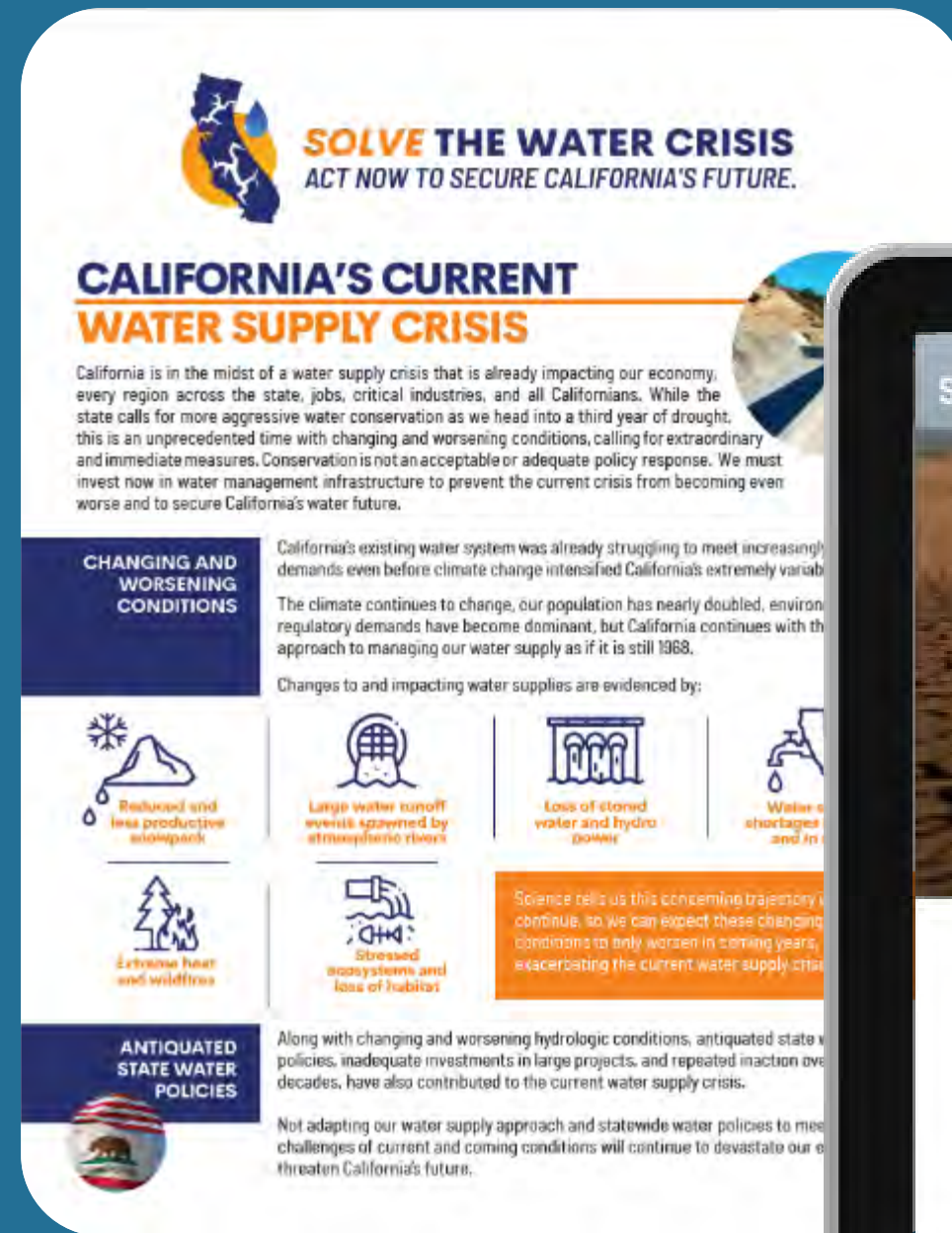


**OPED: California's Water Supply Crisis Is Much More Than This Drought**  
*Picked up by Southern California News Group*

- Print: 684K total readership
- Web: 9.4 million monthly unique visitors, 20.1 million monthly page views



# ACTIVITIES: Website and Collateral



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

## CALIFORNIA'S CURRENT WATER SUPPLY CRISIS

California is in the midst of a water supply crisis that is already impacting our economy, every region across the state, jobs, critical industries, and all Californians. While the state calls for more aggressive water conservation as we head into a third year of drought, this is an unprecedented time with changing and worsening conditions, calling for extraordinary and immediate measures. Conservation is not an acceptable or adequate policy response. We must invest now in water management infrastructure to prevent the current crisis from becoming even worse and to secure California's water future.

California's existing water system was already struggling to meet increasingly demands even before climate change intensified California's extremely variable hydrologic conditions. The climate continues to change, our population has nearly doubled, environmental regulatory demands have become dominant, but California continues with the same approach to managing our water supply as if it is still 1968.

Changes to and impacting water supplies are evidenced by:

- Reduced and less productive snowpack
- Large water runoff events spawned by atmospheric rivers
- Loss of stored water and hydro power
- Water shortages and increased demand
- Extreme heat and wildfires
- Stressed ecosystems and loss of habitat

Science tells us this concerning trajectory will continue, so we can expect these changing conditions to only worsen in coming years, exacerbating the current water supply crisis.

Along with changing and worsening hydrologic conditions, antiquated state water policies, inadequate investments in large projects, and repeated inaction over decades, have also contributed to the current water supply crisis.

Not adapting our water supply approach and statewide water policies to meet the challenges of current and coming conditions will continue to devastate our economy and threaten California's future.



Solve the Water Crisis

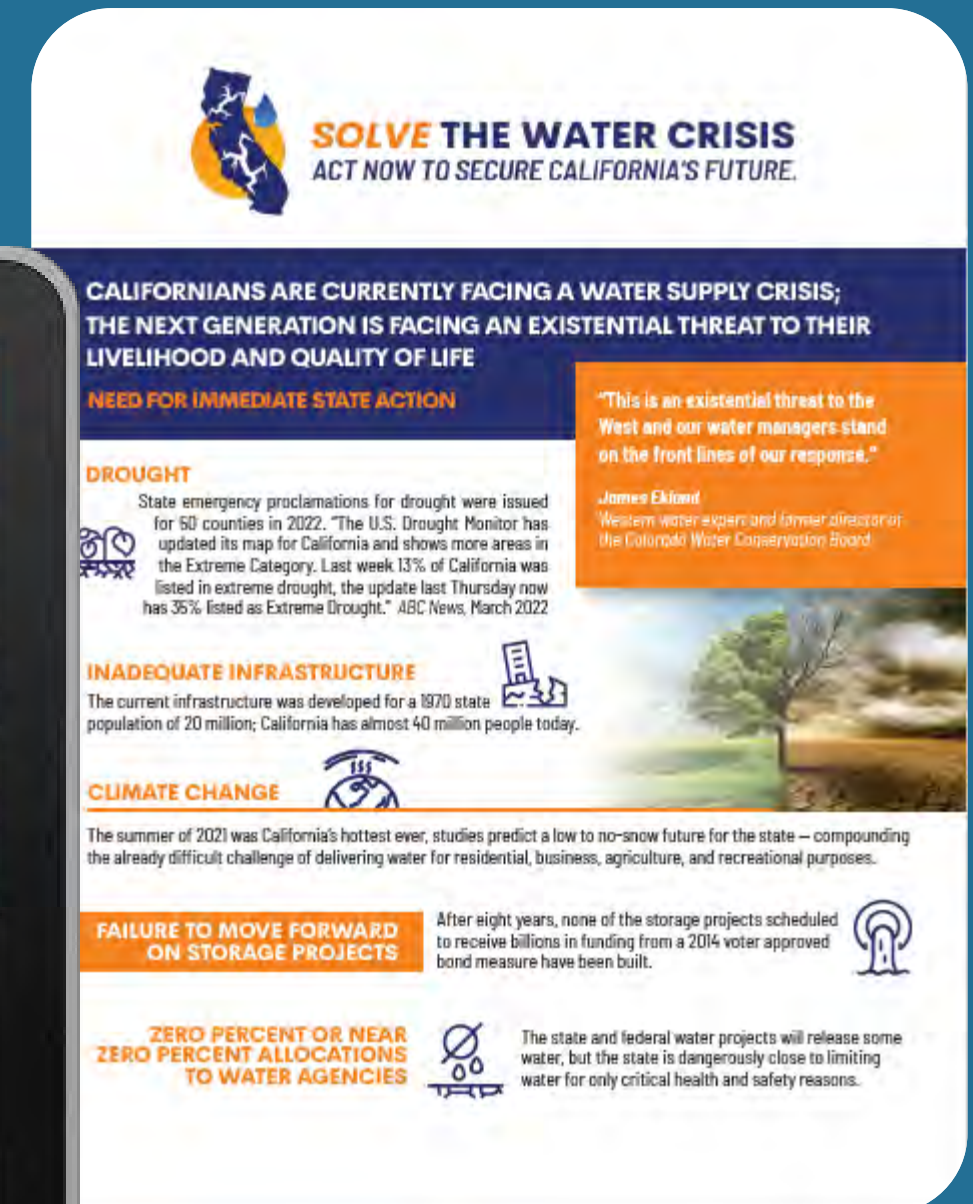
Home | About Us | The Problem | Solutions | News | Contact | [Join the effort!](#)

California is facing a water supply crisis that is already impacting our economy, every region across the state, jobs, critical industries, and all Californians. While the state calls for more aggressive water conservation as we head into a third year of drought, this is an unprecedented time with changing and worsening conditions, calling for extraordinary and immediate measures. Conservation is not an acceptable or adequate policy response. We must invest now in water management infrastructure to prevent the current crisis from becoming even worse and to secure California's water future.

**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

middle of a water supply crisis. Warning! California is in the middle of a water supply crisis. Warning! California is in the middle of a water supply crisis.

California is facing a water supply crisis that is already impacting our economy, every region across the state, jobs, critical industries, and all Californians. While the state calls for more aggressive water conservation as we head into a third year of drought, this is an unprecedented time with changing and worsening conditions, calling for extraordinary and immediate measures. Conservation is not an acceptable or adequate policy response. We must invest now in water management infrastructure to prevent the current crisis from becoming even worse and to secure California's water future.



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

## CALIFORNIANS ARE CURRENTLY FACING A WATER SUPPLY CRISIS; THE NEXT GENERATION IS FACING AN EXISTENTIAL THREAT TO THEIR LIVELIHOOD AND QUALITY OF LIFE

### NEED FOR IMMEDIATE STATE ACTION

**DROUGHT**  
State emergency proclamations for drought were issued for 50 counties in 2022. The U.S. Drought Monitor has updated its map for California and shows more areas in the Extreme Category. Last week 13% of California was listed in extreme drought, the update last Thursday now has 35% listed as Extreme Drought. ABC News, March 2022

**INADEQUATE INFRASTRUCTURE**  
The current infrastructure was developed for a 1970 state population of 20 million; California has almost 40 million people today.

**CLIMATE CHANGE**  
The summer of 2021 was California's hottest ever, studies predict a low to no-snow future for the state — compounding the already difficult challenge of delivering water for residential, business, agriculture, and recreational purposes.

**FAILURE TO MOVE FORWARD ON STORAGE PROJECTS**  
After eight years, none of the storage projects scheduled to receive billions in funding from a 2014 voter approved bond measure have been built.

**ZERO PERCENT OR NEAR ZERO PERCENT ALLOCATIONS TO WATER AGENCIES**  
The state and federal water projects will release some water, but the state is dangerously close to limiting water for only critical health and safety reasons.

*"This is an existential threat to the West and our water managers stand on the front lines of our response."*  
James Elwood  
Western water expert and former director of the Colorado Water Conservancy Board

**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

**Despite tremendous local investment, the State is not living up to its responsibility for evolving California's water system—improvements are now long overdue.  
Current policy priorities are not helping...**

**We need your support and engagement today.**



THANK YOU.



***SOLVE THE WATER CRISIS***  
*ACT NOW TO SECURE CALIFORNIA'S FUTURE*



FOR MORE INFORMATION VISIT  
[WWW.SOLVETHEWATERCRISIS.COM](http://WWW.SOLVETHEWATERCRISIS.COM)

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## **OWOW STEERING COMMITTEE MEMORANDUM NO. 2022.9**

**DATE:** November 17, 2022

**TO:** OWOW Steering Committee

**SUBJECT:** Proposition 1 Round 2 Integrated Regional Water Management Resolution and Project Updates

**PREPARED BY:** Ian Achimore, Senior Watershed Manager

### **RECOMMENDATION**

Recommend that the SAWPA Commission adopt SAWPA Resolution 2022-17 in order to submit the final grant application to the Department of Water Resources.

### **DISCUSSION**

Since the OWOW Steering Committee and SAWPA Commission approved the suite of projects recommended by SAWPA staff at their previous meetings, staff has worked with the various project leads including the Lake Elsinore and San Jacinto Watersheds Authority (LESJWA) and City of Lake Elsinore. Their project, the Phase 1 Lake Elsinore Algae Harvesting and Nutrient Removal Project, includes the implementation of new technology to harvest algae cells in the lake, separate it from the water molecules, and remove the algae biomass through a lake-side slurry. Since approval of the project's grant application, the City of Lake Elsinore, which would provide the \$1.5 Million cost share and ongoing operation and maintenance of the project, has identified some critical issues that need to be solved before they can move forward with the project. These include:

- Long-term cost share that is difficult to acquire for a City of Lake Elsinore's size. Annual long-term operation costs could be \$300,000 to maintain the new technology and other facilities.
- Lake-side acreage is needed to actively dry the slurry before it can be removed from the area. This could present potential odor issues.

The City's consultant is providing updated budget and modified project plans to the City and LESJWA that could possibly result in a scope-change for the project. The project lead has until November 15, 2022, to make a final decision and provide feedback to SAWPA. The grant awarded to this project through the Call for Projects is \$1.5 Million.

If the City cannot move forward with the project, the next back up project to receive this \$1.5 Million in grant funding would be the Inland Empire Utilities Agency's (IEUA) City of Rialto Recycled Intertie Project. The total cost of the project is \$53 Million, and it would provide a benefit of 3,500 acre feet per year of water supply. IEUA submitted a \$50 Million grant application for Federal Emergency Management Agency funding in September 2022 and is awaiting the results of that application. IEUA will also submit a state revolving loan application in December 2022, and IEUA staff has explored the municipal bond market as an alternative option to financing the project if grant funding is not ultimately acquired.

As part of the project, IEUA would have access to water from the City of Rialto's wastewater treatment plant (WWTP), which currently discharges 6.2 million gallons per day (MGD) of recycled water to the Santa Ana River. IEUA and the City of Rialto have executed a recycled water purchase term sheet in October 2022. Through the construction of the \$53 million project, this water would be pumped from Rialto to IEUA's Recycled Plant No. 4 (RP4). Two retail water agencies adjacent to RP4 will then purchase the 3,500 AFY of water.

Also included in this agenda item is the adoption of the grant application resolution that is required by the Department of Water Resources for their February 1, 2023, final application. The resolution provides for the following:

- Recognizes the work done through the OWOW Call for Projects,
- Provides flexibility if back up projects become funded projects, and
- Allows SAWPA to execute a grant agreement with DWR as well as sub-agreements with the individual project leads.

As the grant application process continues to move forward, SAWPA staff will bring back updates on any developments with regard to the need to fund back up projects.

#### **CRITICAL SUCCESS FACTORS**

- OWOW criteria and values are transparent to watershed-wide stakeholders, and
- Administration of the OWOW process and plan in a highly efficient and cost-effective manner.

#### **RESOURCE IMPACTS**

None

Attachments:

1. PowerPoint Presentation
2. Resolution No. 2022-17

# Prop 1 Round 2 IRWM Resolution and Project Updates

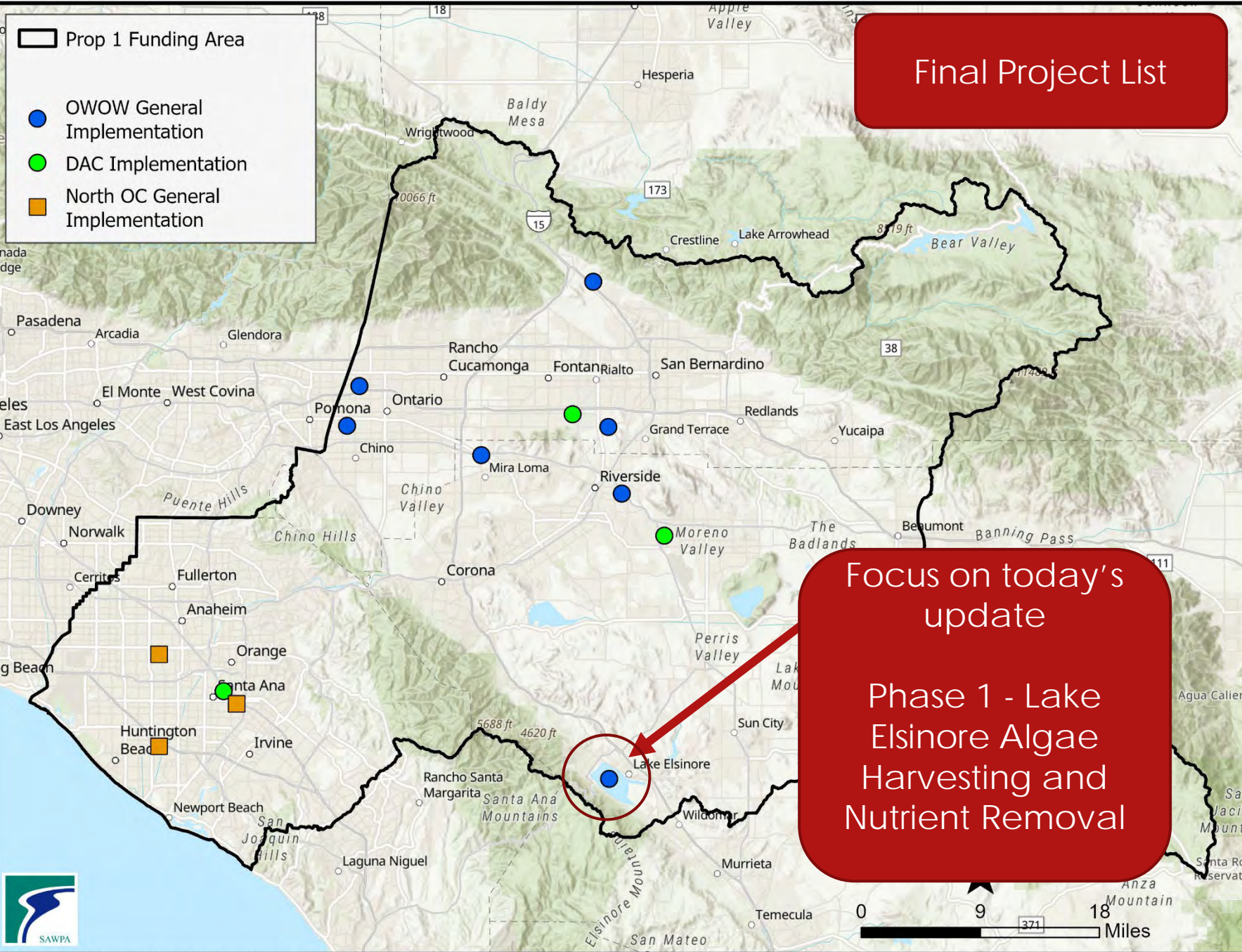
Ian Achimore, Senior Watershed Manager  
OWOW Steering Committee | November 17, 2022  
Agenda Item 4.B.



# Recommendation

- ▶ Recommend that the SAWPA Commission adopt SAWPA Resolution 2022-17 in order to submit the final grant application to DWR.

# Final Project List



General Implementation Project	Applicant	Water Supply (AFY)	Water Quality (MGD)	Habitat (Acres)	Flood Protection (Acres)	Funding Amount
Santa Ana River Watershed Weather Modification Pilot	SAWPA	8,200	4.40	-	-	\$861,400
Etiwanda Intervalley Water Quality and Water Resiliency Phase-1A	JCSD	4,355	4.00	-	-	\$2,954,213
Wellhead Nitrate Treatment for Wells 4 & 27	MVWD	4,516	4.03	-	-	\$2,533,492
Cable Creek Basin (Upper)	SBCFCD	859	-	-	390	\$2,521,678
Phase 1 - Lake Elsinore Algae Harvesting and Nutrient Removal	LESJWA	-	1.00	3,000	-	\$1,500,000
Lake Rialto Habitat Management and Community Open Space	Rialto, City	-	5.90	10	-	\$2,149,748
Well 2 Replacement	MVWD	3,226	2.88	-	-	\$2,006,311
City of Rialto Recycled Intertie	IEUA	3,500	3.10	-	-	
Santa Ana River Sustainable Parks & Tributaries Water Reuse	SBVMWD	5,109	-	187	-	
Calimesa Aquifer Storage and Recovery	YVWD	2,890	-	-	-	
Well Pump Replacements	MVWD	4,194	-	-	-	
Improving Recycled Water Used in Local Groundwater Recharge	WMWD	985	3.0	-	-	
Well 4 Replacement	MVWD	1,936	1.73	-	-	
Water Well RN #6 Nitrate Removal System	RHWC	1,300	1.20	-	-	
Improved Lake Circulation at Prado Regional Park	SBCRP	-	4.3	62	-	
Large Landscape Water Efficiency Program	IEUA	671	0.04	-	-	
Regional Water Distribution System Leak Detection and Repair	MWDOC	1,338	1.19	-	-	
Cactus Basins Connector Pipeline	SBVMWD	1,360	-	-	-	

Top project threshold.



DAC Project	Applicant	Water Supply (AFY)	Water Quality (MGD)	Flood (Acres)	DAC %	Score	Funding Amount
New Washington Well	Santa Ana, City	4,000	3.57		85%	17.00	\$3,394,743
Lead Service Line Replacements in the Bloomington DAC	WVWD	3,454	3.10		100%	14.72	\$315,000
Box Springs Mutual Water Company Well Improvement	California Rural WA	411	0.37		100%	1.93	\$1,885,257
Recycled Water Use Expansion	Santa Ana, City	370	-		63%	0.83	
Shamrock and Meridian Septic to Sewer Conversion	Rialto, City	-	0.13		100%	0.29	
Cottonwood Avenue Recycled Water Pipeline (East)	EMWD	90	-		100%	0.20	

**Top project threshold.**

# "Back Up" Project List

Project Name	Project Lead	Grant Request*	Total Cost
Shamrock and Meridian Septic to Sewer Conversion Project (DAC)	City of Rialto	\$3,143,400	\$3,143,400
City of Rialto Recycled Intertie (General Implementation)	Inland Empire Utilities Agency	\$3,000,000	\$53,000,000
<b>Grand Totals</b>		<b>\$6,143,400</b>	<b>\$56,143,400</b>

\*This is the grant request through the OWOW Call for Projects, not the final grant request to DWR. The possible amount granted to the project will depend on the project(s) that drop out during the implementation phase.

# Phase 1 - Lake Elsinore Algae Harvesting and Nutrient Removal Project

- ▶ Widespread harmful algal blooms (HABs) occur in the lake due to ongoing and legacy nutrient loads which are exacerbated by persistent drought and heatwaves.
- ▶ As a result, the City has been forced to post public health warnings and to close the lake for recreational activities, which has negative impacts on local businesses and tourism.
- ▶ The draft revised Total Maximum Daily Load (TMDL) report for Lake Elsinore recognizes that innovative, in-lake remediation projects are needed.



# Scope of the Project

- ▶ Project includes implementation of innovative algae harvesting technology to address impacts of HABs.
- ▶ Project will include use of Hydronucleation Flotation Technology (HFT), an advanced liquid/solid separation process that has been optimized to operate at a high hydraulic rate.



Photo credit: AECOM

# Issues Applicant is Working to Resolve

- ▶ Long-term cost share is difficult to acquire for a City of Lake Elsinore's size.
  - ▶ Annual long-term operation costs could be \$300,000.
- ▶ Lake-side acreage needed for drying slurry and potential odors is a factor.
- ▶ The City's consultant is providing updated budget and modified project plans that could possibly result in a scope-change for the project.
- ▶ The City has until November 15, 2022 to make a final decision and provide feedback to SAWPA.



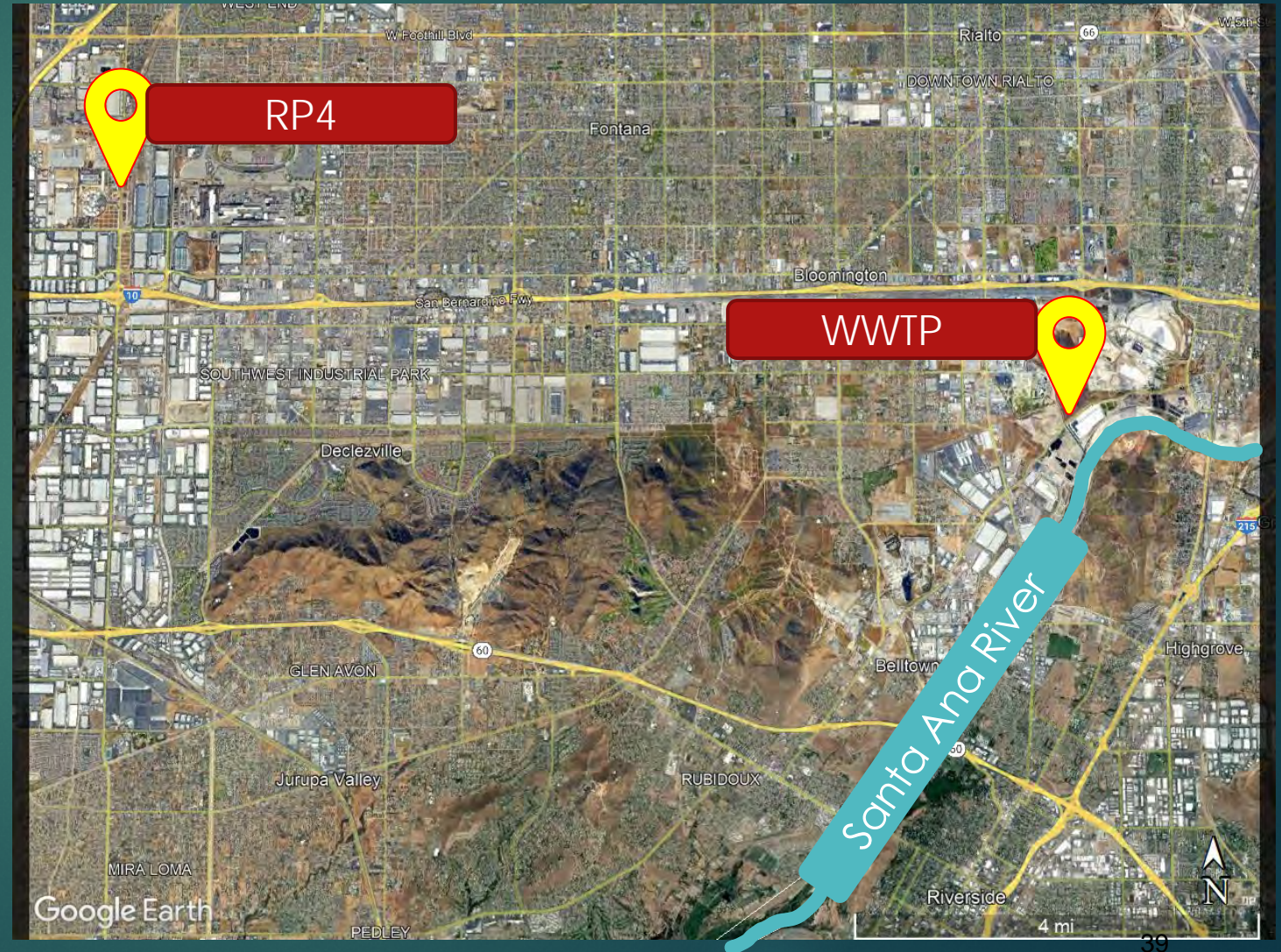
# Back Up Project to Utilize if Lake Elsinore Does Not Move Forward

- ▶ Inland Empire Utilities Agency's City of Rialto Recycled Intertie Project
  - ▶ In October 2022, IEUA and City of Rialto agreed to a recycled water purchase term sheet.
- ▶ \$53 Million total cost.
  - ▶ \$1.5 million in grant funding from Lake Elsinore project would be transferred to the IEUA project.
  - ▶ IEUA submitted a \$50 million grant application for Federal Emergency Management Agency funding
  - ▶ IEUA will submit a state revolving loan application in December.
  - ▶ IEUA staff has explored the municipal bond market as an alternative option.



# Further Information About Project

- ▶ Rialto's wastewater treatment plant (WWTP) currently discharges 6.2 million gallons per day (MGD) of recycled water to the Santa Ana River.
- ▶ Will be pumped from Rialto to IEUA's Recycled Plant No. 4 (RP4).
- ▶ Two retail water agencies adjacent to RP4 will then purchase this water.



# Grant Funding By Category

(No changes between categories)

Category	Projects Included	Grant Amount
Disadvantaged Community	3	\$5,595,000
OWOW - General Implementation	7	\$14,526,843
North OC - General Implementation	3	\$7,583,800
SAWPA - Grant Administration (4.7% of total grant available)	NA	\$1,352,929
<b>Grand Total</b>	<b>13</b>	<b>\$29,058,572</b>



# New Water and Revised Water for the Watershed

- ▶ “New water” - water from a source that was not in use prior,
- ▶ “Revised water” - water from a source that is currently discharged (such as secondary treated water) or water that is currently not in use due to regulatory or water quality issues.

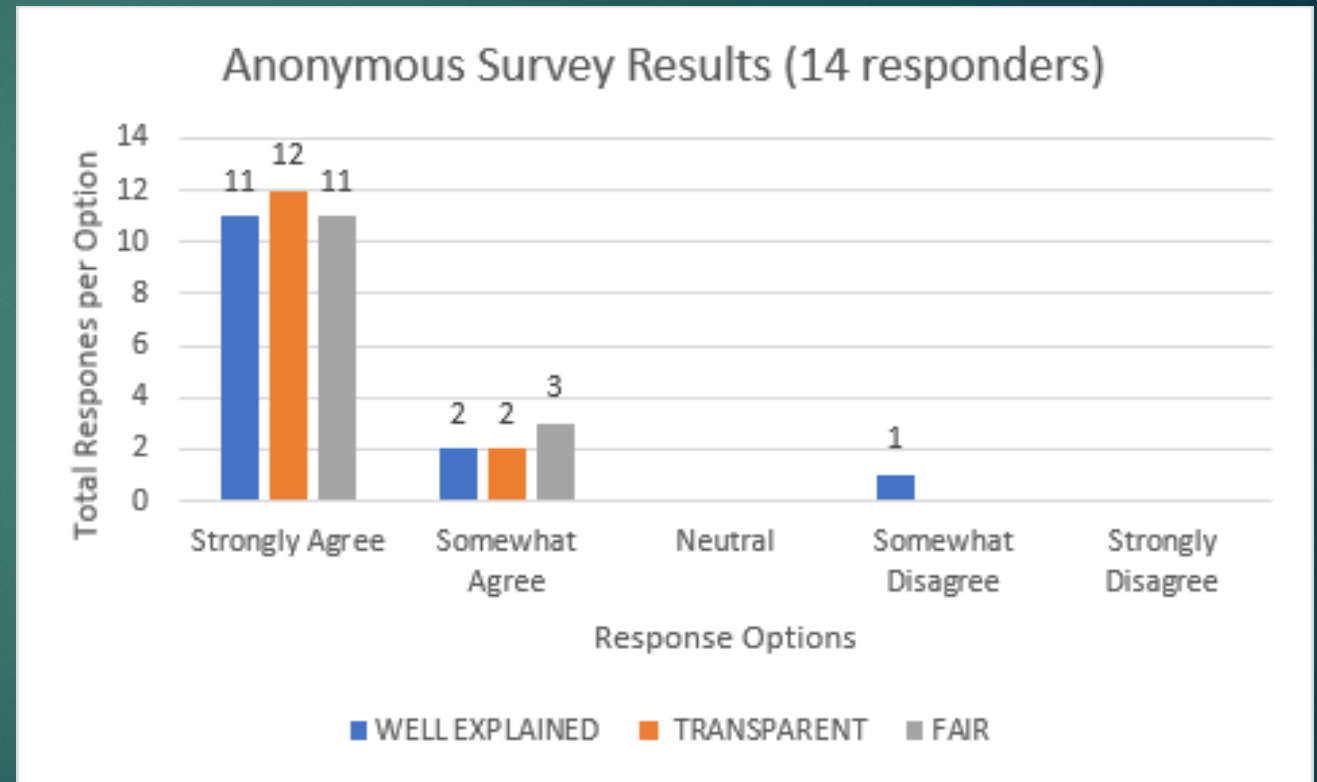
Local Water from Prop 1 Round 2 Projects	Acre Feet per Year
New Water	13,312
Revised Water	18,466*
<b>Total Local Water</b>	<b>31,778**</b>

\*Would increase by 3,500 AF if IEUA back up project is utilized as a replacement project.

\*\*Represents 3% of historical local water that is directly delivered to customers.

# Feedback from Stakeholders Regarding Call for Projects

- ▶ SAWPA sent a three-question survey to those who participated in the Call for Projects process,
- ▶ The questions focused on whether the process was
  - ▶ Well explained,
  - ▶ Transparent, and
  - ▶ Fair.



# Resolution for Adoption

15

- ▶ Recognizes the work done through the OWOW Call for Projects,
- ▶ Required as part of the DWR application due on February 1, 2023,
- ▶ Resolutions provides flexibility if back up projects become funded projects,
- ▶ Allows SAWPA to execute a grant agreement with DWR as well as sub-agreements with project leads, and
- ▶ SAWPA staff will bring back updates on any developments with regard to the need to fund back up projects.



# Recommendation

16

- ▶ Recommend that the SAWPA Commission adopt SAWPA Resolution 2022-17 in order to submit the final grant application to DWR.

## RESOLUTION NO. 2022-17

### **A RESOLUTION OF THE COMMISSIONERS OF THE SANTA ANA WATERSHED PROJECT AUTHORITY AUTHORIZING THE GENERAL MANAGER, OR DESIGNEE, TO EXECUTE A GRANT AGREEMENT AND SUB-AGREEMENTS FOR THE PROPOSITION 1 ROUND 2 INTEGRATED REGIONAL WATER MANAGEMENT IMPLEMENT GRANT WITH THE STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES**

**WHEREAS**, the Santa Ana Watershed Project Authority is the accepted Regional Water Management Group within the Santa Ana Funding Area of the California Integrated Regional Water Management Program;

**WHEREAS**, the One Water One Watershed Plan Update 2018, adopted by the Commission on February 19, 2019, has the subtitle “Moving Forward Together” which reflects the OWOW Program’s commitment to ensuring that in the Santa Ana River Watershed no one is left behind as progress is made, and that progress somewhere in the watershed does not cause any undue burden elsewhere in the watershed;

**WHEREAS**, SAWPA recently conducted a collaborative and competitive process with all interested watershed stakeholders and OWOW project applications as part of its One Water One Watershed Proposition 1 Round 2 Implementation grant solicitation to identify the most beneficial upper watershed and watershed-wide projects;

**WHEREAS**, the One Water One Watershed process drew 24 project submittals that included projects focused on generating new sources of water for the watershed, improving important aquatic habitat, removing pollutants from the region’s groundwater and surface water resources, and improving stormwater abatement in a disadvantaged community;

**WHEREAS**, the One Water One Watershed process selected ten projects, of the 24, to move forward to submit a grant application to the Department of Water Resources for Proposition 1 Round 2 Implementation grant funding;

**WHEREAS**, SAWPA deferred to the Orange County parties identified in the 2019 Cooperative Agreement for Integrated Regional Water Management Funding in the Santa Ana Funding Area, which are the County of Orange, Orange County Water District, and Orange County Sanitation District, to identify their list of three Orange County-based projects to include in the Department of Water Resources grant application for Proposition 1 Round 2 Implementation grant funding;

**NOW, THEREFORE, BE IT RESOLVED** that the Commission of the Santa Ana Watershed Project Authority, pursuant to Section 22050 of the California Public Contract Code, hereby resolves that:

The General Manager, or Designee, is authorized to prepare the necessary data, conduct investigations, file such proposal, and execute a grant agreement with the State of California, Department of Water Resources, and associated sub-agreements, to accept and conduct the work of Proposition 1 Round 2 Integrated Regional Water Management Implementation and Grant pursuant to the Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Water Code Section 79700 *et seq.*)

**ADOPTED THIS** \_\_\_ day of December 2022.

**SANTA ANA WATERSHED PROJECT AUTHORITY**

By: \_\_\_\_\_  
Marco Tule, Chair

Attest:

\_\_\_\_\_  
Sara Villa  
Clerk of the Board

## **OWOW STEERING COMMITTEE MEMORANDUM NO. 2022.10**

**DATE:** November 17, 2022

**TO:** OWOW Steering Committee

**SUBJECT:** Santa Ana River Watershed Weather Modification Pilot Program Status Report

**PREPARED BY:** Mark R. Norton, P.E., Special Projects Manager

### **RECOMMENDATION**

Receive and file.

### **DISCUSSION**

On April 6, 2021, the SAWPA Commission authorized staff to proceed with the ground seeding site selection analysis, CEQA development, preparations for a watershed wide SAWPA project application for Prop 1 Round 2 seeking 50% grant funding for a four-year pilot scale watershed weather modification (cloud seeding) project and seek outside funding to support the program.

The work under the task order with North American Weather Consultants (NAWC) to conduct the ground seeding site analysis for 15 potential ground seeding sites in the watershed was conducted with property owners and public agencies overlying the proposed sites. Completion of the seeding site analysis report was completed in February 2022.

Work on the SAR Watershed Weather Modification Pilot Program CEQA with Catalyst Environmental Solutions commenced on November 1, 2021, with initial work on data gathering and developing the initial project description. The Initial Study/Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Plan for Santa Ana River Watershed Weather Modification Pilot Project under CEQA was adopted by the SAWPA Commission on June 21, 2022. No comments were received except for one Native American Tribe requesting that guidelines are followed for archaeological site survey if Native American artifacts are found during installation of the seeding units.

SAWPA staff conducted outreach and prepare outreach material associated with the pilot weather modification program for the watershed throughout the past two years. An offer to provide an informational presentation by SAWPA staff, answer questions and seek funding support has been made to over 60 agencies in the watershed. This solicitation of support resulted in eight local agencies agreeing to provide funding to the pilot project in addition to the support of SAWPA member agencies. The local agency contributions amounted to \$94,000.

Work continues on preparation of a future grant application under the DWR Proposition 1 IRWM Round 2 Implementation grant program to cover 50% of the cost of the four-year pilot program with validation. The pilot project was recommended for funding under SAWPA's Round 2 Call for Projects and supported by the OWOW Steering Committee and the SAWPA Commission for inclusion among the 13 projects to be submitted to DWR. Based on the timeframe established now for the SAWPA OWOW Round 2 Call for Projects, SAWPA staff will be submitting a grant application for the pilot program before the February 1, 2023 deadline.

On July 19, 2022, after release of an RFP and review of proposals, NAWC was selected to perform the weather modification pilot project over the four-year pilot time span and awarded a

contract for this work by the SAWPA Commission. Work commenced on the seeding unit fabrication, equipment orders and the local seeding site agreements with approximately 10 private property owners and water agencies to operate the 15 seeding units. Unfortunately, insufficient time was available to execute the agreements before the original and planned start for the pilot project of November 15, 2022. Consequently, the pilot project was deferred from November 2022 to November 2023 to allow sufficient time for the local seeding site agreements to be executed and preparations to occur. An agreement and task order were also awarded in October 2022 with the Desert Research Institute to conduct the weather modification pilot validation to ensure that additional precipitation from the cloud seeding is verified.

### **CRITICAL SUCCESS FACTORS**

- Successful implementation of an integrated regional water resource plan that reflects the watershed management needs of the public and the environment.
- Data and information needed for decision-making is available to all.

### **RESOURCE IMPACTS**

The ground seeding site analysis, CEQA program and staff time for conducting the grant application and outreach was included in the SAWPA FY 2021-22 Budget using surplus carry over funding available from Fund 370-01. Based on the action of the SAWPA Commission on July 19, 2022, the four-year pilot was authorized by the SAWPA Commission with a funding commitment to support it. This funding along with the local water agency funding will provide the necessary local cost share for the DWR Prop 1 Round 2 IRWM Grant that is being sought. Grant funding for the project should become available by October 2023.

#### Attachments:

1. PowerPoint Presentation





# Santa Ana Weather Modification Pilot – Status Report

Mark Norton, Special Projects Manager  
Santa Ana Watershed Project Authority  
Item No. 4.C.



# Recommendation

Staff recommends that the OWOW Steering Committee receive and file this status report on the Santa Ana River Watershed Weather Modification Pilot Project.

# How cloud seeding works

**1**

Silver iodide mixed with acetone is vaporized, releasing particles into the atmosphere.

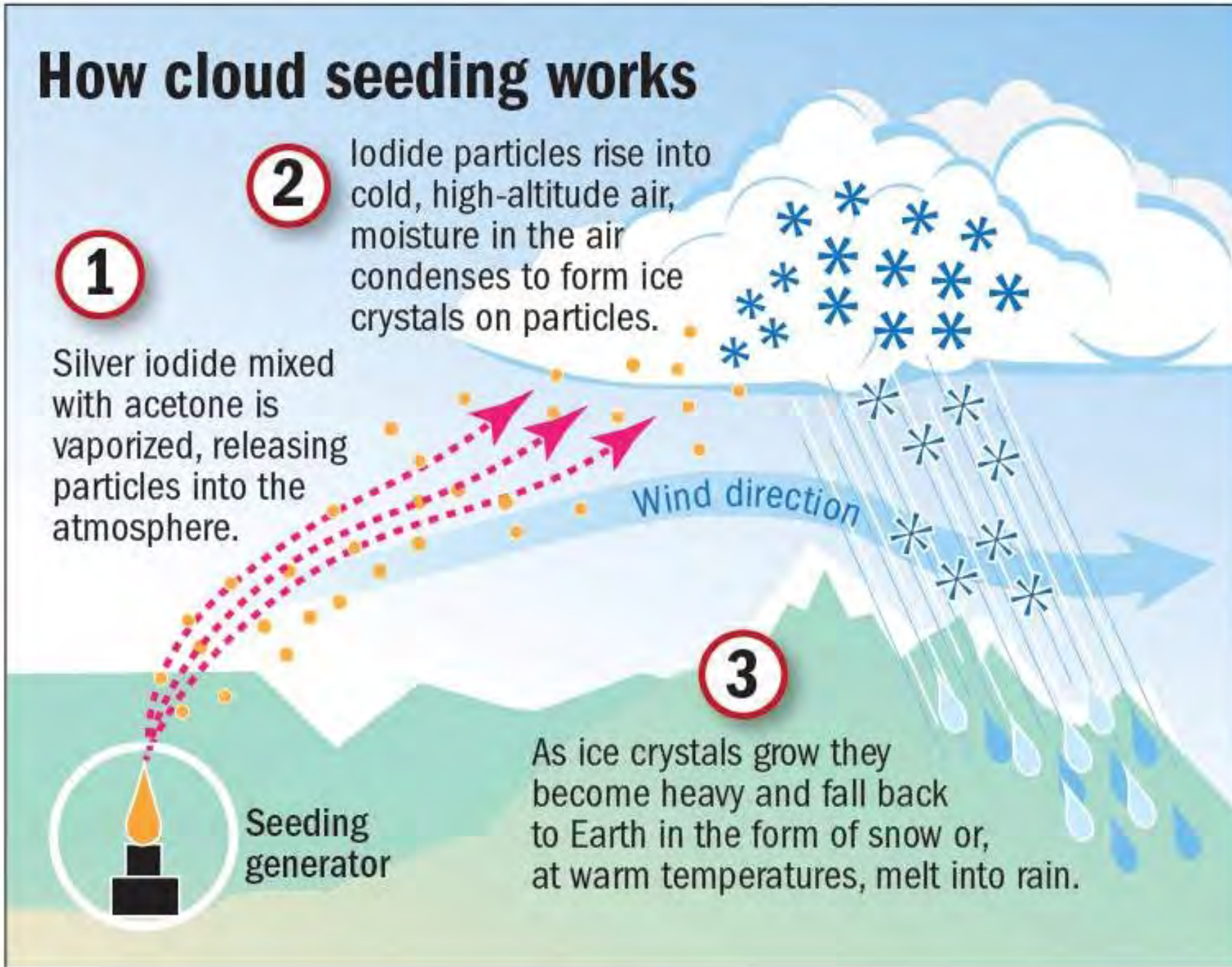


**2**

Iodide particles rise into cold, high-altitude air, moisture in the air condenses to form ice crystals on particles.

**3**

As ice crystals grow they become heavy and fall back to Earth in the form of snow or, at warm temperatures, melt into rain.



Source: The Fact Site

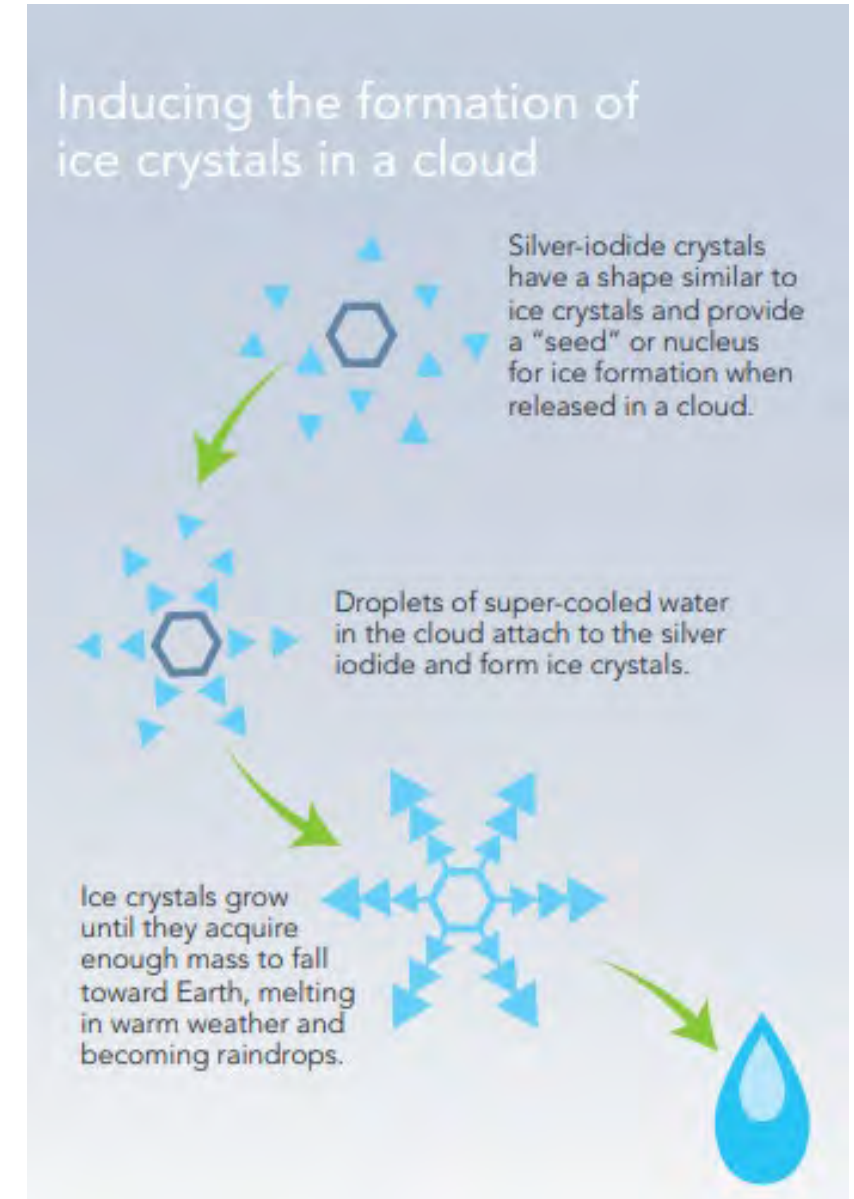
# Cloud Seeding History

## Background

- Physics is well known
- Started in the U.S. in the 1940s
- Challenges: Overselling, limited science
- Misconceptions remain

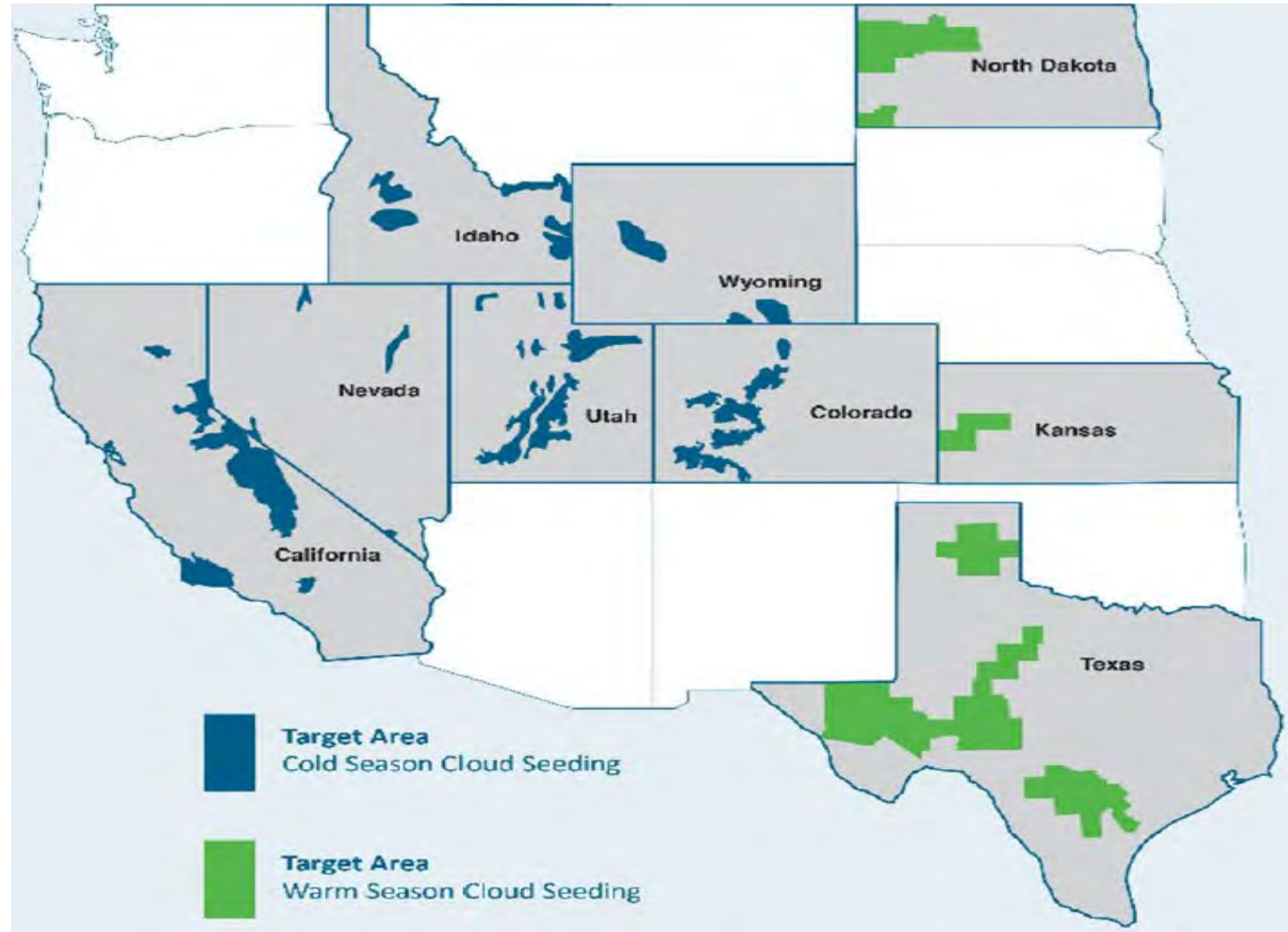
## Recent Advances

- Weather forecasting
- Computing / Modeling
- Seeding methods
- Scientific validation studies



# U.S. Projects

- ◆ Cold Season Cloud Seeding Leaders
  - CA, CO, ID, UT, WY, NV
- ◆ Applications
  - Power Utilities (hydropower)
  - Ski areas
  - Water Resource Agencies
  - Irrigation Districts
- ◆ California Projects
  - Santa Barbara County
  - San Luis Obispo
  - Sacramento Municipal Utility District
- ◆ CA DWR
  - Cloud seeding is a “safe and effective means of augmenting local water supplies.”



Source: North American Weather Modification Council

# Ground Based Seeding Methods

CNG's (Cloud Nuclei Generators)



- Ideal for orographic lift (winds caused by land barriers)
- Create a continuous plume
- Inexpensive to install and operate

AHOGS (Automated High Output Ground Seeding Systems)



- Ideal for strong convective storm attributes (turbulence)
- Delivers higher concentration of silver iodide
- Operated remotely – rapid release

# Licensing and Permitting

- Operators are licensed and carry liability insurance
- Suspension criteria turns off program during high precip/flood conditions
- Though no CA state permit required, CEQA mitigated negative declaration will be conducted
- The National Oceanic and Atmospheric Administration (NOAA) also requires activity report about operation and the amounts of seeding material applied.



# Cloud Rustling – Downwind Effects Misconception

- “Robbing Peter to pay Paul”
- Cloud seeding activates precipitation otherwise unavailable
- Long-term research (44+ studies) consistently shows no precipitation decreases; some downwind increases shown





# Potential Environmental Effects

- Silver iodide is not soluble or biologically available
- 50 years of physical, biological, aquatic, soils and vegetation studies found:
  - Subtle or indiscernible effects
  - Not been measured above background, even after decades of operations
  - Potentially beneficial (more runoff)
- Strong studies with credible results and regulations reflect recent research



# Public Health Protection

- Silver Iodide (Agl)
- Silver Concentrations
  - EPA drinking water quality 0.1 mg/L
  - U.S. Public Health Service level 0.05 mg/L
  - Seeded rainfall is 0.1 mcg/L or 1000 times less than EPA standard



# Why consider cloud seeding in the Santa Ana River Watershed?

Precipitation – and flows in the Santa Ana River – have been trending down

- Cloud seeding increases precipitation (with an emphasis as snow in upper elevations)
- Produces a local supply
- Potential to reduce the use of imported water

Dry years and droughts occur

- Cloud seeding works in both dry and wet years

Cost effective

- Costs for 8%-11% increase in streamflow is a fraction of the cost of imported water

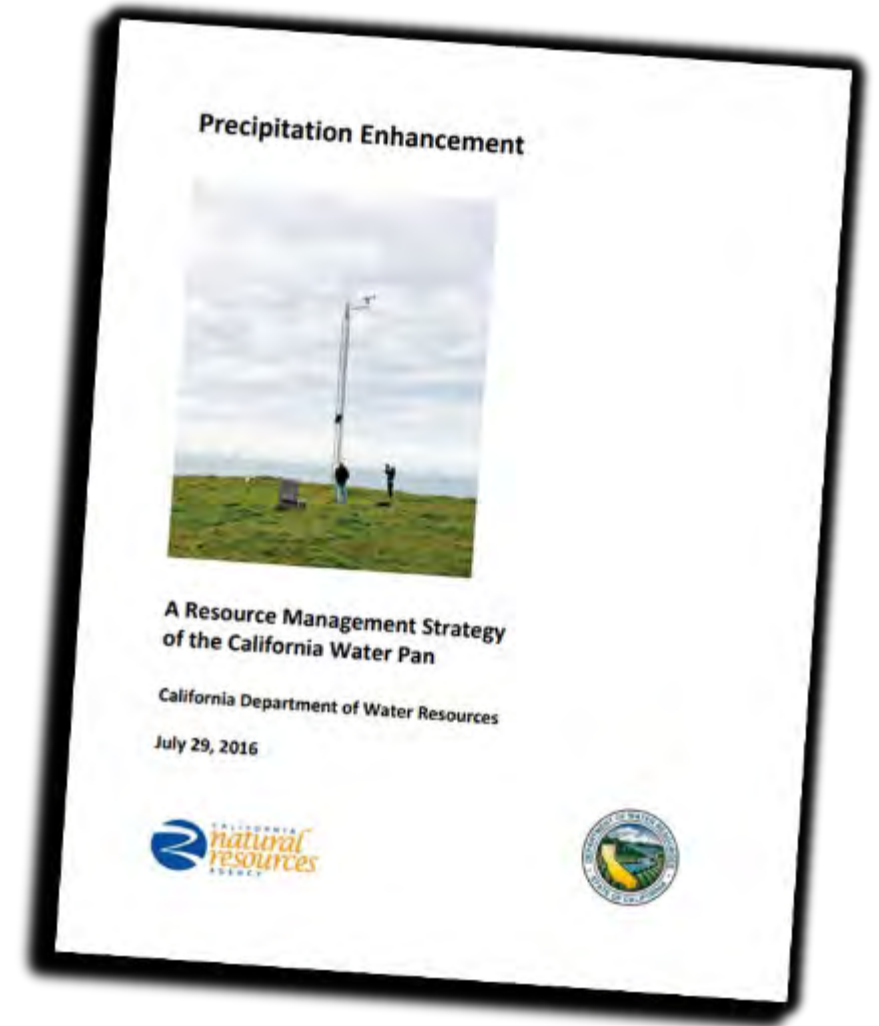
Supports local water storage

- Natural infiltration
- Takes advantage of existing stormwater capture infrastructure

# Water Rights

- DWR “Precipitation Enhancement Report” (2016):

“State law says that water gained from cloud seeding is treated the same as natural supply in regard to water rights.”



# 2020 Feasibility Study Outcomes

- Finding:
  - ...the proposed cloud seeding program would be both technically and economically feasible...
- Pilot Program (annual basis)
  - Cost: **\$250,000**
  - Benefits:
    - Streamflow increase = **8,200 AF**
    - Percent increase in streamflow = **8%**
  - Cost per acre-foot (AF) = **~\$25 /AF**



Feasibility Study (2020)

<https://sawpa.org/latest-info/watershed-cloud-seeding-feasibility-study/>

# Feasibility Study Outcomes

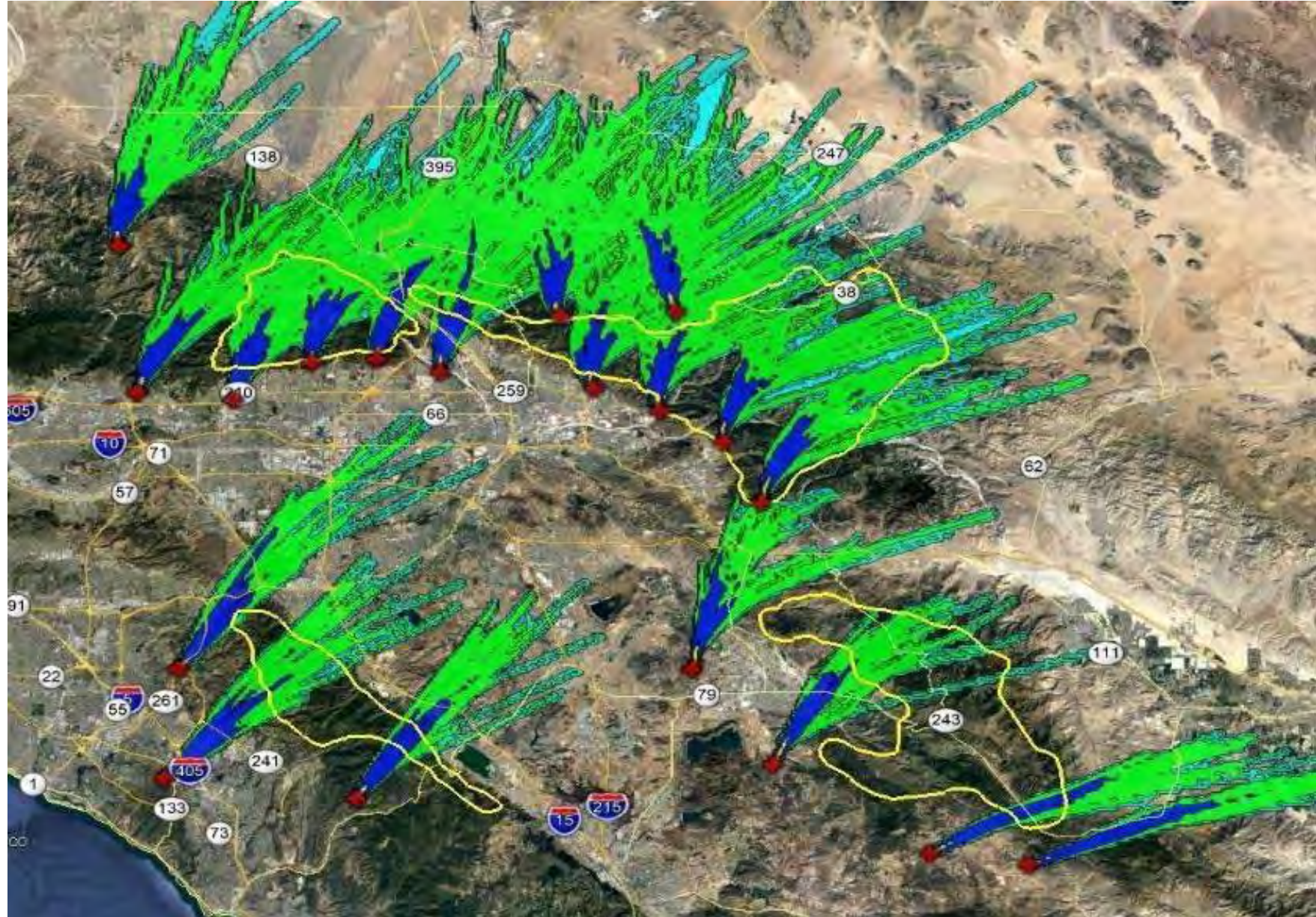
## Ground Based Seeding Dispersion Model

4 seeding areas:

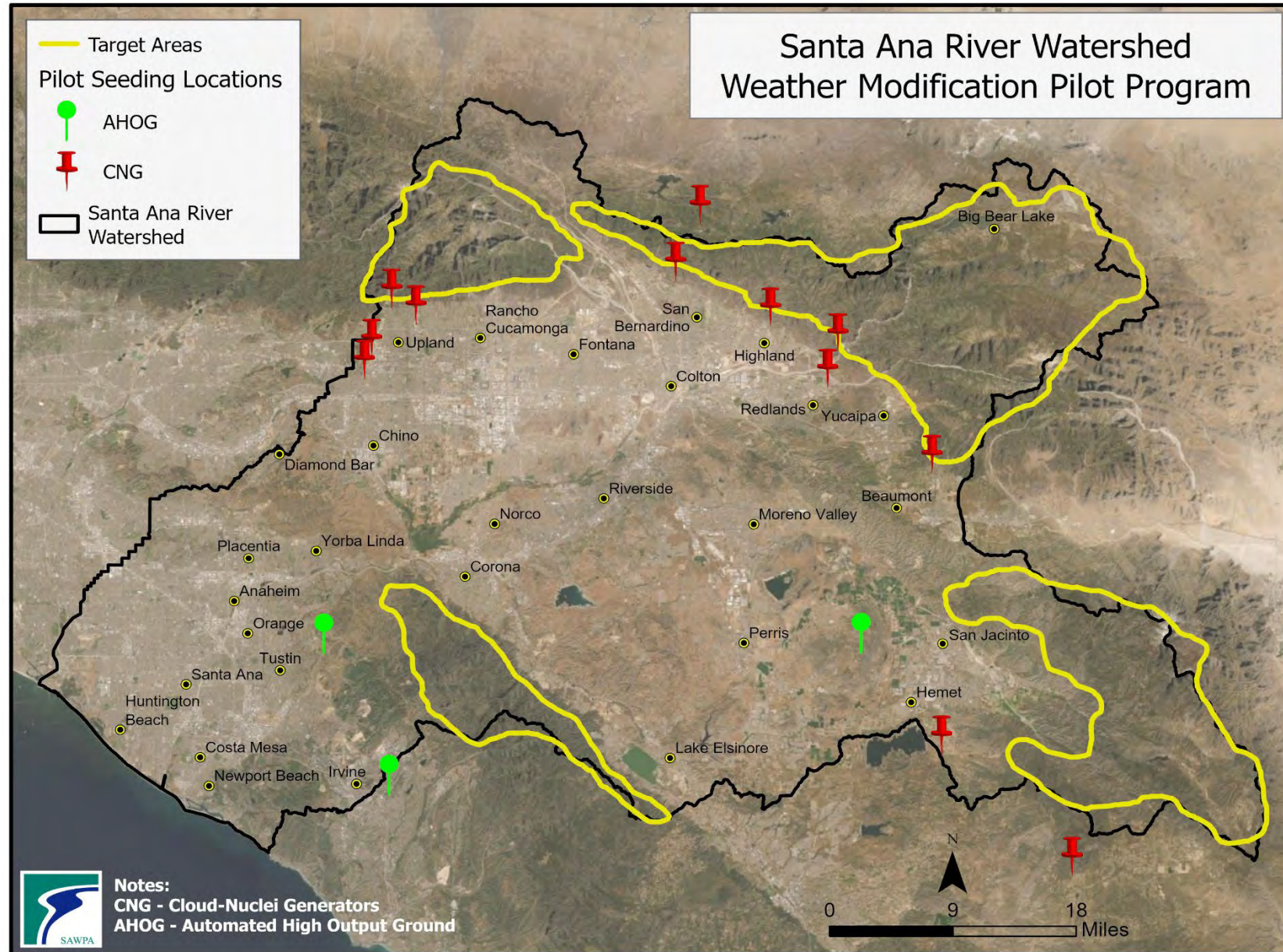
- NW
- NE
- SW
- SE

Included a number of  
ground sites in each area

Map reflects one of many  
projected seed plume  
scenarios



# Seeding Site Locations

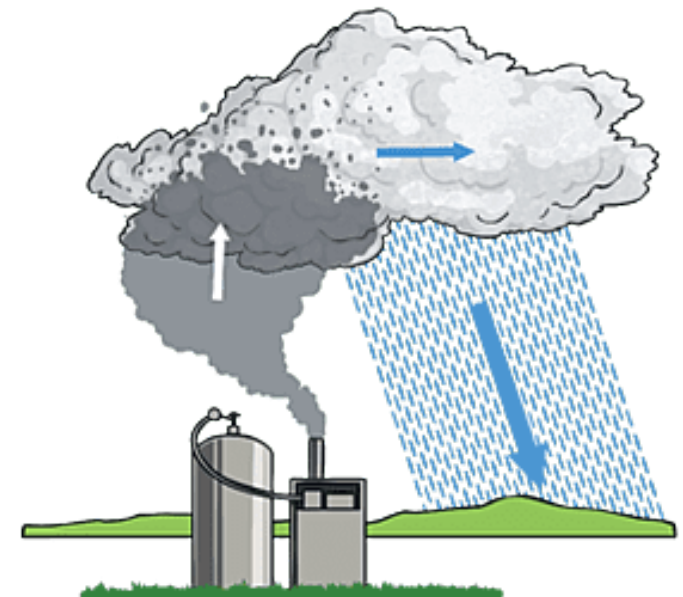


# Operations Consultant Award

- Contract awarded on July 19<sup>th</sup> by SAWPA Commission:
  - North American Weather Consultants (NAWC), Sandy, UT (\$1,061,912)
- A General Services Agreement and Task Order signed on July 25, 2022
- Kickoff meeting held on August 1, 2022



North American  
Weather Consultants





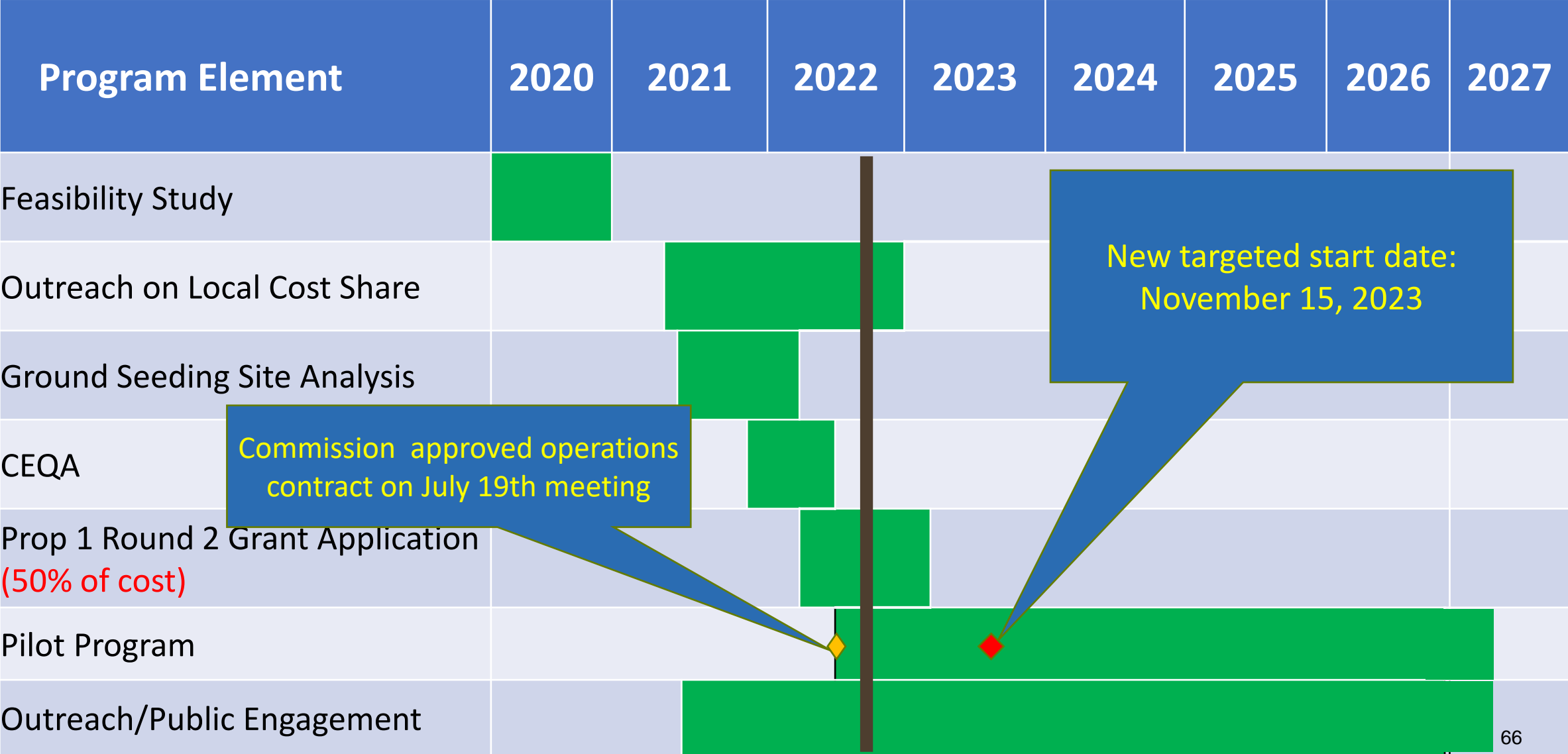
# Operations Scope of Work

- Task 1 – Project Management and Administration
- Task 2 – Program Personnel
- Task 3 – Installation
- Task 4 – Land Lease/Operation Agreements
- Task 5 – Operations
- Task 6 – Equipment Maintenance
- Task 7 – Reporting & Invoicing
- Task 8 – Schedule

Duration: Four years over annual winter periods  
(Nov. 15 – Apr. 15)



# Santa Ana River Weather Modification Pilot Project



# Pilot Project Seeding Start Rescheduled to Nov. 2023

The decision to reschedule the start of cloud seeding was based on a review of project targets established to meet the Nov 2022 schedule. Specifically:

- 1. Lease Agreements.** Execution of seeding site agreements with participating agencies require more time than anticipated, including scheduling board approvals where needed.
- 2. Operations.** Questions arose by several agencies regarding the operations of the seeding units. Additional time is needed to address operations for these units.
- 3. Propane Tanks.** Propane tanks of the appropriate size have been in short supply since 2021 and securing tanks for installation was in question.

No additional costs are required for the November 2023 start date.

# Proposition 1 Round 2 IRWM Implementation Grant Application - Status

- Application submitted for OWOW Call for Projects for Prop 1 Round 2 IRWM grant funding (50% of cost)
- SAWPA staff participated in Round 2 grant stakeholder budgeting and ranking process
- The Pilot was the top ranked project among 24 projects
- Next Step:
  - SAWPA staff will prepare detailed workplan, budget and schedule for DWR grant application due to DWR on Feb. 1, 2023.
  - DWR award announcement anticipated by Jun 2023 with contract execution with SAWPA anticipated in Oct. 2023



# Santa Ana River Watershed Weather Modification – Pilot Validation

- Postponement of start to Nov. 2023 was acceptable to Desert Research Institute (DRI)
- DRI \$155,000 validation support estimate remained the same
- Additional time can be used for preparation of validation tasks
- General Services Agreement and Task Order was approved by the SAWPA Commission on October 18, 2022.



# Recommendation

Staff recommends that the OWOW Steering Committee receive and file this status report on the Santa Ana River Watershed Weather Modification Pilot Project.